

SCANCOMMANDER

User's Manual

Version 4.x November 2001



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1. Introduction (Version 4.x)

1.1 General remarks

MA Scancommander basic features

The MA SCANCOMMANDER features perfect and easy control of most DMX 512 compatible moving lights and multifunctional fixtures. Up to 16 units can be controlled simultaneously.

Main features of the MA SCANCOMMANDER:

- Access to colours, gobos etc. via labelled buttons.
- Programming of selective scenes with for example fixed positions but new colours.
- Transformation of all programs to different stages and different types of fixtures.
- Followspot via Trackball with several different fixtures.
- Slow fades with freely selectable trigpoint for colours, gobos etc.
- Direct access to all functions during running scenes.
- Fader for direct control of brightness.
- Remote inputs for touchboards, DMX 512, MIDI Sound and SMPTE Time Code.
- Unlimited number of fixtures by docking several MA SCANCOMMANDERS.
- Simultaneous control of different types of lighting fixtures.
- Additional 96 channels for dimming or color changers.

Chapter 2 describes the set up, which has to be followed step by step: Choosing lamp type, giving DMX starting address and initializing the stage.

Chapter 3 to 6 describe the direct access to single functions and the programming of scenes.

Appendix 1 lists the types of fixtures, which can be interfaced to the MA SCANCOMMANDER.

When you see ">>...." in this menu, there will be further explanations on this subject. The index at the end makes it easy to find certain subjects.

To be involved in the update service, please fill out the registration card at the end of the manual.



1.2 Specifications and extras

	The basic MA SCANCOMMANDER is delivered as a 19" version with 1 desklamp. With this configuration it can perform all functions except labelling your scenes and presets in the display. There is a list of options available that will fit your needs.
Trackball, Computermouse	Makes it easy to control movements. All Atari compatible trackballs or mice can be used. Note: PC compatible mice cannot be used !!
Keyboard	Enables you to label your programs. Any PC-MF keyboard will work. Ameri- can keyboards may cause some problems by exchanging different letters. (>>Memory Names, Preset Names)
Keyboard drawer	The keyboard, offered by MA, can be mounted in a drawer underneath the SCANCOMMANDER
Board housing	Wooden sides and a front armrest are available.
Backup cue card	All programs can be stored on a memory card in addition to the internal storage. Cards from 32 to 256 kilobyte, type ITT STAR CARD S-RAM can be used.

1.3 Installation

Powersupply

DMX 512 output

100-240 Volt, 40-60 Hz via Euro plug. No switching of voltage necessary.

According to USITT DMX 512 (1990) protocol. The output is opto insulated and even better than RS 485 or RS 422. The pins in the 5 pin XLR plug are: Pin 1: ground, Pin 2: Data-, Pin 3: Data+ (Pin 4 and 5: not used)

Other in- and outputs see chapter 9.

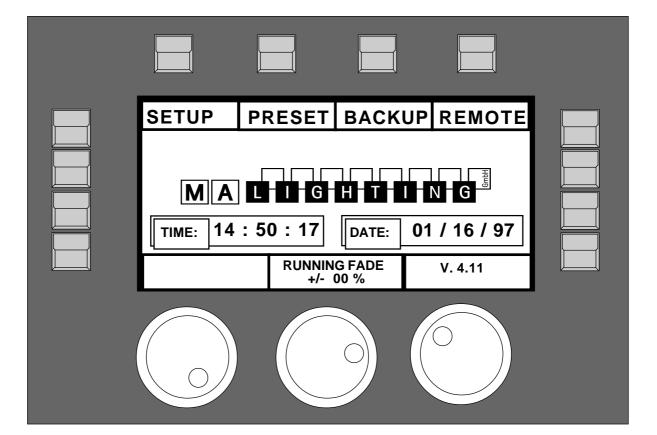
2. Setup

2.1 Top menu

Top Menu



QUIT button (2x) Starting point for all operations is the TOP MENU. To go back to the TOP MENU during any operation press Quit button 2 x.



Display buttons	The squares in the display show the current function of your 12 buttons around the display. The 3 encoders are dedicated to the 3 lower squares of the display.
Quit button	By pressing the Quit button 2 x you can return to the TOP MENU. The current operation will be cancelled and the board returns to the normal operation mode.
Running fade modification	The encoder wheel no.2 can be used to modify the speed of all active fades (see 9.1 for details).



2.2 Lamp type

The MA SCANCOMMANDER is able to control various lamp types. All necessary adjustments are made by simply choosing a lamp type from the list.

Selecting the Lamp Type Menu

The display shows in 10 sections names of manufactures. MORE turns the page for more manufactures. The list in the centre shows the 16 selected lamp types.

For self-defined scans please choose "User Scan" (see chap. 11). You can call 16 different scans

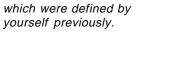


The button on top of the display label "SETUP" switches the board to the setup menu.

LAMPTYPE

SETUP

CAMELEON FRANCE	CLA	Y PAKY ITALY	CO	EMAR ITALY	FAL ITALY
B + K GERMANY AMPTOWN GERMANY USER SCAN MORE1(3)	1 0 3 0 4 0 5 0	MPTYPE GOLD 2 GOLD 2 GOLD 2 GOLD 2 GOLD 2 GOLD 2 GOLD 2 GOLD 2 GOLD 2	SET 9 10 11 12 13 14 15	UP GOLD 2 GOLD 2 TIGER TIGER INTEL7 INTEL7 INTEL7	FLY JB GERMANY LAMPO ITALY READY
SELECT TYPE		GOLD 2	16 N S	INTEL7 CAN 2	3 (12)



Selecting number of Scans

0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0

In the "Scan Selection" block the buttons have to be switched on according the number of scans to be registered.

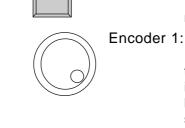
When pushing the desired button, the square of that

In the lower section of the display you find the first types of fixtures of the selected manufacturer. Turning Encoder 1 will scroll through the list of available lamps. If there are "Presets" for the chosen type the

manufacturer will be shown inverted.

scan type will be shown inversely.

Selecting manufacturer and lamp type



Registration of selected lamp type

{	



INIT:SCANS+VALUES+NAMES

All necessary data for this scan type is now downloaded. The three other kinds of initialization are for registration of different scan types for simultaneous operation.

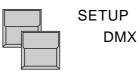
READY After selecting the desired lamp type, press READY

Manufacturer Name

2.3 DMX output addresses

All control signals from the Scancommander are on DMX 512 and are sent on a two conductor cable to stage. Therefore the single scans need to have a DMX start address to know, to which data they must respond.. Usually this address can be selected by a DIL switch directly on the lamp or at their DMX interface.

On the SCANCOMMANDER these addresses have to be set for the individual scans.



PATCH	1 2 3	1 (6) 7 (6) 13 (6)	1 2 3	(3) (3) (3)	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
CLEAR	4 5 6	19 (6) 25 (6) 31 (6)	4 5 6	(3) (3)	4 (3) 5 (3) 6 (3)
Scans Dimmer	0 7 8	37 (6) 43 (6)	0 7 8	(3) (3) (3)	7 (3) 8 (3)
EXTRA 1	9	49 (6)	9	(3)	9 (3)
	10	55 (6)	10	(3)	10 (3)
	11	61 (6)	11	(3)	11 (3)
EXTRA 2	12	67 (6)	12	(3)	12 (3)
	13	73 (6)	13	(3)	13 (3)
131	14	79 (6)	14	(3)	14 (3)
	15	85 (6)	15	(3)	15 (3)
	16	91 (6)	16	(3)	16 (3)

The DMX Output Patch Menu shows three lists of 16 DMX addresses each. The first list concerns the scans, list 2 and 3 are for additional dimmers and color changers (>>Extra1,Extra2).



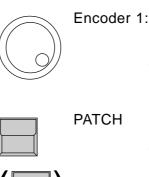
The square SCANS has to be inverted.

Adjusting DMX start addresses



SCAN Selection buttons

DMX start addresses have to be set one by one for all scans. The scans have to be selected by their respective button in the SCAN SELECTION block.



PATCH Clear

Selects the startaddress. An address is only possible to select, if the number of channels, needed for this scan, is freely available (Number in brackets shows the number of channels, necessary for the registered lamptype)

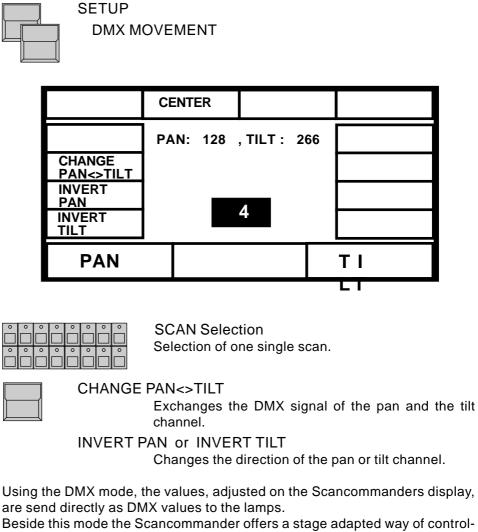
Registers the selected address for the activated Scan. To go on the next automatically selected scan has to be chosen.

Clears the registered address and enables the selection of a new start address.



2.4 Movement direction on DMX mode

The movement of the beams can be controlled via two of the encoder wheels, an external tracker ball or computer mouse. To reach an ergonomic handling of the trackerball it is possible to do a course adjustment of the movement.



Beside this mode the Scancommander offers a stage adapted way of controlling pan and tilt. The difference between this two modes are listed in the following chapter and in 3.3.1. Basic features of movement control

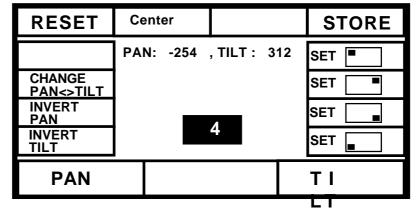
2.5 Initializing of stage

Optionally movement and positions of the light beam are handled as X/Y coordinates on stage. The value 0/0 corresponds to the middle of the stage. Changing the X value relates to movement right or left, changing Y moves between front and backside of the stage. This way of calculation makes it necessary to do an initialization before starting the programming of scenes, but gives you a list of advantages

- Programs can be easily transferred to a new stage setup.
- On followspot mode via trackball all beams stay together.
- Moving the trackball or mouse in one direction will move the beam of all lamps the same direction.

To be able to use these advantages, the stage has to be "shown" to the single scans. This initialization is done by pointing with the beam to the 4 corners of the stage. (The most exact way to do this initialization is by using nearly closed iris or small dot gobo >> see chapter 3 Direct access.)







SCAN SELECTION block Selection of one scan.

Clears all former initializations and gives the scan a standard movement. This is helpful if the movement of the scan in some way is restricted by a former initialization.

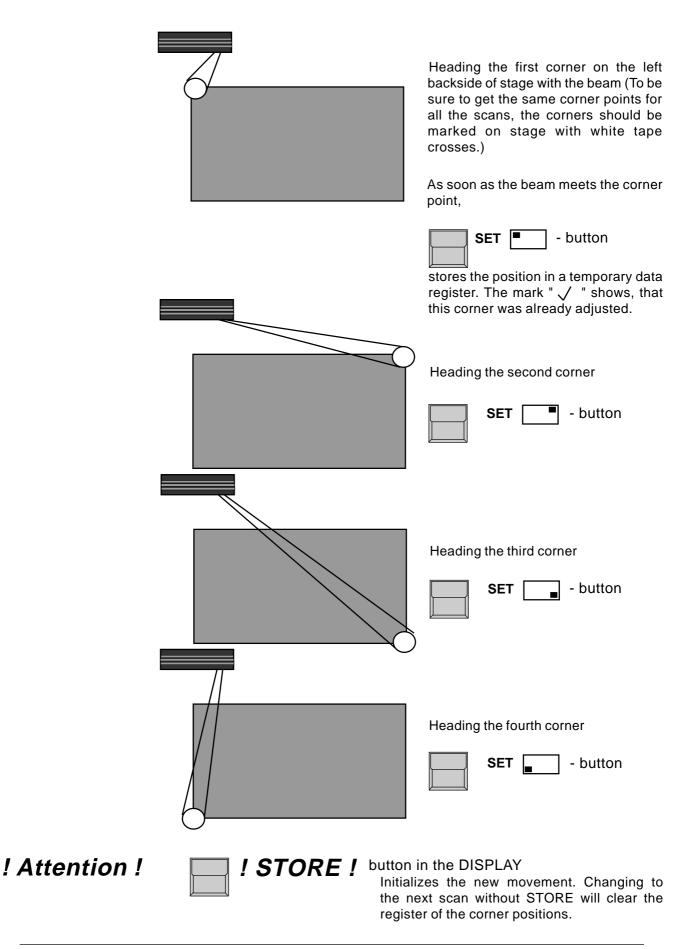
Note:

RESET data can be used for controlling the movement, but cannot be adapted to new stage setups

Changing movement directions after RESET

After RESET (square inverted) the buttons CHANGE PAN<>TILT, INVERT PAN and INVERT TILT offer the chance of a course adaptation of the trackerball movement to the beam movement.





3. Direct access

Actual Scan Selection

0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0

There is constant direct access to the single functions of the scans. Any function can be controlled for a number of scans simultaneously. The LED's in the Scan Selection block determine, which of the 16 scans will be affected. The "CLEAR" button beside the "SCAN SELECTION" block clears the selection, the "INVERT" button inverts the actual selection. "CLEAR"-"INVERT" selects all 16 Scans.

As long as the OPTION button is held down, the lower display button on the left side changes between the SINGLE and MULTI mode.

SINGLE: Only one scan can be selected at once. All other scans will be deselected automatically.

MULTI: It is possible to select more than one scan at a time to be controlled simultaneously.

3.1 Scan groups and brightness fader

Combinations of scans, which are mostly used, can be stored and recalled as groups. In the same time, the brightness master underneath the group buttons are masterfaders for the brightness of this combination of scans.



SCAN Selection

Selection of the scans, which shall be stored as one of the groups.



STORE

Keep button pressed, select "SCAN" to be displayed on white background,

Programming of scan groups

Gro

...and simultaneously press...

Group button A-H

Stores the actual scan selection as group.

If you accidentally release the STORE button before pressing a group button, press two times QUIT to return to the TOP MENU.

Group buttons, when pushed during standard running mode, always overwrite the actual scan selection.

! Attention !

! Attention !

To have one or more of the scans lighting the stage, at least one of the group brightness faders has to be up. Even during movement initialization there will be no beam on stage as long as all group brightness masters are at zero.

The function "MASTERS ALL 100%" at the SETUP menu will set all master faders to full on. This makes sense during playback of synchronised shows but should be switched off during standard operation (white background).



3.2 Basic scan functions

3.2.1 Tuning with the encoder

All functions of a registered lamp can be selected and controlled directly. To see any effect on stage, every lamp has to be part of at least one of the groups and its brightness master has to be up.

Controlling functions via encoder



FEATURE button

Selection of any function is by their button in the FEATURE block. As soon as the EXTRA LED lites, the red printed functions are valid.

For any selected function the DIRECT ACCESS Menu shows the actual data in a list at the centre of the display. (Right the COLOR display)

VIOLET	GREEN	ORANGE	BLUE
YELLOW	FEATURE	COLOR 9 WHITE	PINK
RED	2 WHITE 3 YELLOW 4 YELLOW	10 WHITE 11 RED 12 RED	
WHITE	5 WHITE 6 WHITE	13 WHITE	
MORE 1(2)	7 89 8 89	15 WHITE 16 WHITE	
WHEEL 1		V	VHEEL 2



SCAN SELECTION

The encoder always controls the scans, which are actually selected in the selection block. Their numbers in the display list are printed inverted and the values are modified when the encoder is used.



Encoder 1, 2 and 3

The three lower sections in the display show the functions, which are controlled by the encoder. The inside part of the encoder controls the function step by step, the outside ring offers a fast and course adjustment. (16 steps per increment).

NOTE:

As it is now possible, to select small beams and to control movement scan by scan, the stage initialization should be done before going on with programming. This is important to have the chance of transforming programs to new stage setups. (>>Movement initialization)

PRESETS



Using the Encoder Wheels, all functions are controlled in 256 steps. But for most of the functions there are special values, which are used all the time, like the single colours on the color channel. These values can be stored together with a label as PRESETS and can be recalled by the push of a button later on. On direct access the 12 display sections will show these names. For most of the scans these PRESETS are stored internally and are downloaded when doing the lamptype setup. If these PRESETS are not available for the actual registered lamp type, or they are not right and have to be adjusted, you have to swop to the PRESET ADJUST menu.

		QUIT butto	on The display switches to the TOP MENU.
		PRESET	The display shows the actual output values and the headline "Adjust Preset".
	0	Feature b	-
		Display bu	utton of the desired square Short push (<1/2 sec.) of a button inverts the square.
PRESET names		₩	KEYBOARD Input of a name with up to 6 characters. ENTER or RETURN (KEYBOARD) Stores the name for the preset.
Adjusting values	Adjustme	nt of values	via SCAN SELECTION and ENCODER 1 to 3.
Saving a PRESET		1. x STOF	RE button All Scans, where the function is available, are se- lected
		2. x STOF	RE button For all selected scans the actual output values are stored as PRESET.
Testing and modifying PRESETS		Preset bu	tton pressed for more than 1/2 sec The selected PRESET will be recalled and can be modified and stored.
			E the next PRESET can be programmed or the desk IENU by using the QUIT button.

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3.2.3 Playback of presets

Playback PRESETS





Feature Button

Selects a function for direct access.

J

Display buttons

In direct access mode preprogrammed PRESETS can be recalled by their button. Similar to the control via encoder, only the scans which are actually selected, will change to the new value.

Display list:

If the actual value of a scan was selected by recalling a preset, the list will no longer show the channel value, but will show the preset name.



Encoder 1 to 3

Modifications via encoder:

- Any modification via the encoder will change the display to show the actual output value. If the value returns to the preset value, the display returns to show the preset name.

Preset X-Fades

Slow x-fades to a preset value:



X-FADER (FEATURE SELECTION BLOCK)

The x-fader in the feature selection block sets the time for the slow fade. On any recall of a preset, while this fader is raised to a value above zero, the channels will slowly change from their actual output value to the value stored in the preset.

When recalling a preset for a switch function like gobo, this fader should be down, otherwise the gobo wheels will slowly change to the selected new gobo.

SAMPLE function	features simultaneously.	ables the recall of up to nine presets even for different The SAMPLE preset commands can be created in in the display, as soon as the SAMPLE button is
SAMPLE display		keep button pressed As long as the sample button is pressed, the SCAN- COMMANDER works in the SAMPLE mode. - the display shows a insert window with up to nine preset recalls. - Preset commands will not be executed but listed in the Display - The GO+ button of the sequence will not recall the next step of the sequence, but will recall the sampled preset recalls.
	any Pres	utton and simultaneously set button in direct access The Preset are not executed, but are listed in the SAMPLE list together with the actual scan selection and the actual x-fade time.
	GO + bu	utton and simultaneously tton of the sequence section The listed preset recalls get executed. The list will not be cleared and can be recalled again later on.
	CLEAR t	utton and simultaneously outton in the feature section The SAMPLE list will be cleared.
	therefore automatically	nd, which is sampled in the list, may overwrite and clear a former command. (For example if a new rall scans, any former gobo commands in the sample



3.3 Movements

PAN/TILT via encoder and Presets

PAN/TILT coordinates

Controlling the movement works basically like controlling any other function. Positions, which are stored as presets, can be recalled by their buttons. The scan selection block shows, which of the 16 scans will go to the new position. When a preset is recalled with a x-fade time greater than zero, the beams will change slowly and with a linear travel from their actual position to the new one. In addition to encoder and preset playback, there are some functions which are only available for Pan/Tilt.

(two different mode, trackball and mouse, followspot and circle movement)

3.3.1 Movement on direct DMX or on stage calculation

As noted in 2.4 and 2.5 on the Scancommander it can be selected between adjusting the DMX values of pan and tilt directly or adjusting the stage position where the scans are supposed to point to. Although it is possible to swap between this two modes any time, it is highly recommended to select one of the modes as basic for all programs.

ī.

	DMX direct mode	Stage calculation mode
Advantages and disad- vantages of the two operation modes	Setting position: - better control in extreme positions far outside stage - on moving head lamps, pan turns the yokes while tilt turns the lamp - the bump position of the yokes is placed at the same side every time the picture is recalled.	 synchronously control of all scans within the stage linear movement of the beam even when using moving head lamps. reaching the bump position of the yoke, the head lamp turns around.
	Movements on fade: - depends on mechanical construc- tion of the lamps	- linear movement of the beam within the stage area
	Adaptation to new stage setups: - scans have to be mounted exactly to the same position as before or - all presets have to be adjusted	- adapting all programs by initializing the 4 corners - adjustment of single presets
	<u>Follow mode:</u> - not possible	- without any problem up to 50% out- side stage
	<u>Display on the pan/tilt menu:</u> 00 00 to FF FF (optional in % or hexadecimal)	 -99 - 99 to 99 99 the rhomb marks stage coordinates, white ramp marks a fade to stage coordinates

Special regulations on - During stage oriented movement mode the value in the display reaches from stage oriented movement -99 to +99. The centre of the stage corresponds to 0/0, the corners have values of +/-25. Values outside +/- 25 mean, that the beam is actually outside the stage. - When a preset is recalled with a x-fade time greater than zero, the beams will change slowly and with a linear travel from their actual position to the new one. - If the movement initialization was done correctly, any combination of scans, which shows the same values in the display, meet the same point on stage. Outside the stage, this effect will loose its accuracy. Programming presets for Pan/Tilt makes movement control very handy. 44 positions on stage can be preprogrammed and recalled by their button. ! Attention ! In addition it helps to return to a well defined point if the operation via trackball gets confusing.

! Attention ! During any programming of positions make sure, that the circle radius is set to zero. If only the circle speed is zero, but the radius is greater zero, there is no circle movement visible, but the radius is still valid and will cause an offset on the programmed positions.

3.3.2 Changing the movement mode

Direct setting of the working mode

0	0	0	0	0	0	0	0
0	0	0	0	0	0	~	0

SCAN SELECTION

Selection of the scans to be changed



OPTION button

keep button pressed and simultaneously press



SET SELECTION TO STAGE MOVEMENT

selected scans, which work on direct DMX mode, will swap to the stage calculation mode and jump to "00 00" middle of stage.



SET SELECTION TO DMX MOVEMENT

selected scans swap to direct DMX mode without changing their position.

The actual mode is marks by "S" or "D" for all 16 scans. Changing the mode via option cancels all running fades.

Changing the working mode can be done by recalling according playbacks The working mode is stored within any preset, memory, chaser or sequence step. The playback of this programs automatically restores the according working mode. Fades between two positions with different working mode always run in DMX direct mode.



3.3.3 Transforming memories to a new stage

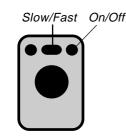
Transforming stage mode data:

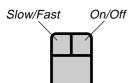
Transforming programs to a new stage setup All movement positions which are stored as presets, memories or scenes, are automatically adapted to a new stage setup, as soon as the movement initialization is done. Therefore it is important to have the first movement initialization done before any program is stored. If the programs had been done on the basic of an exact initialization, no further adjustments are necessary. The same initialization is necessary, if the mounting position or height of a scan has been changed.

Adjusting preset positions Preset positions can also be adjusted, if the point they have to hit on stage, has moved. If, for example, the position of the keyboard player has moved, only the preset "KEYB." has to be adjusted, and any memory, chaser or sequence step, which was programmed to meet the keyboard, will recall the right position.

Transforming direct DMX mode data:

Transforming direct DMX
memoriesIf programs are stored on direct DMX mode the easiest way is to adjust the
lamp position as exact as possible.
Otherwise all programs, which are based on preset positions can be trans-
formed by simply adjusting the 44 preset positions. Stage pictures, which are
not based on presets, have to be tested and adjusted one by one.





Followspot in standard operation mode

Fixing the followspot mode

3.3.4 Trackball and Mouse

An Atari compatible mouse or trackball makes control of movement very comfortable. In standard operation mode, no follow spot fixed (see 3.3.3), the mouse will always control the actual selected scans simultaneously. Unlike the control via encoder, the mouse even works when Pan/Tilt is not selected in direct access mode.

The mouse buttons switch the working modes, the new mode will be displayed for one second in the centre of the display.

Right mouse button (outer buttons on the trackball):

Switches the mouse on and off, to avoid accidental movements.

Left mouse button (inner button on the trackerball) Mouse speed changes between slow and fast.

3.3.5 Followspot mode

The Pan/Tilt calculation via the stage coordinates has the effect, that all beams, starting at the same point, stay together during simultaneous operation. Outside the stage this effect looses part of its accuracy.

To have a real tracking of a person moving on stage, it is necessary to do the movement initialization of the four corners at about 1.5 m height, otherwise the beams will perfectly light up the feet of the person, but not the body. Therefore the corners have to be marked by a microphone stand or something similar.

In standard operation mode, the mouse controls the actual selected scans. Using the EXTRA-FOLLOW feature, it is possible to fix one group of scans to the mouse. Any change of the scan selection while controlling colours, gobos or any other feature, will not affect the follow selection. The mouse will go on to control their scans.

Additionally the scans, fixed to the follow mode, won't be affected by any memory or playback program.

EXTRA LED has to be switched on

FOLLOW

The display changes to FOLLOW FIX Menu with the list of Pan/Tilt coordinates.

0 0 0 0 0 1 1 1 1 1 0 0 0 0 0 0

SCAN Selection Selection of scans,

Selection of scans, which shall be fixed to follow mode.



FREEZE FOLLOW inverted

The selected scans are fixed to follow mode.

MODE PROGRAM inverted

Standard operation mode. The mouse always controls the actual selection of scans.



Circle movement as a Feature

3.3.6 Circle mode

The feature EXTRA - CIRCLE offers direct control of circle movements. The actual Pan/Tilt position will be the centre point of the circle movement, radius and speed can be controlled by encoder. By moving the Pan/Tilt position, the circle will move simultaneously.

Circle parameters can be stored as presets like any other feature and can also be stored within memories, chasers or sequence steps.

(>>Programming selective memories).



EXTRA LED has to be switched on

CIRCLE

Direct access to the CIRCLE feature can be done with encoder or presets like on any other feature. At least one preset should be prepared with speed and radius set to zero for all scans.



SCAN Selection

Speed	Encoder 1 Controls the spee direction.	ed. Crossing zero will change the
Starting angle	set between 0 to	lius is zero, a starting angle can be 15 (=F). This helps to start the t different positions of the same
Radius	Encoder 3 sets the radius of	the circle.
Terminating a circle movement	Any circle movement can only be terminat by recalling a preset, which sets the radius For keeping control of circle movements an circles as quick as possible, it is recomment "OFF". Using the selective way of programming m important to have one of the memories S ⁻ memory. (>> 4.3 Selective memories) When a circle movement is terminated by so returns to the centre of the circle.	s to zero. Ind to have the chance to terminate Inded to program a preset for circle memories and sequence steps, it is 1 to S10 stored as "CIRCLE OFF"
! Attention !	During any programming of positions make zero. If only the circle speed is zero, but the circle movement visible, but the radius is s	e radius is greater zero, there is no

the programmed positions.

Handling within the Slow movements are one of the major applications of moving lights. The Scancommander MA SCANCOMMANDER controls fades by updating the position about 40 times a second. The intern resolution of the SCANCOMMANDER is 1600 steps for Pan and 1600 steps for Tilt. Using one or two channels per direction, the Pan/Tilt informations can be sent with 8 to 16 bit accuracy. Depending on the lamp type, the single steps of the SCANCOMMANDER will be conducted with individual degree of accuracy. As the DMX 512 signal features a 8 bit resolution, it offers control with 256 Lamp types with 10 to 16 BIT accuracy steps. A much improved movement control is possible, if the lamp offers a second channel for fine adjustment, reaching a 10, 12 or 16 bit resolution. Unfortunately today only few of the available lamps feature this second channel for high resolution control via DMX 512. Some of the lamps feature an intelligent logic, which enables the lamp to Lamp types with smooth movements by creating make smooth movements by creating their own intermediate steps. Therefore intermediate steps these lamps show a little delay on slow movement (Hysteresis). Especially when doing the movement setup, this may cause some loose of accuracy. Other lamps require that the speed data are sent on a separate DMX 512 channel. As this speed information has to be set by the user any time there Lamp types with a speed are changes between fast movement and slow fades or follow spot operations, channel it is not very handy. Setting this speed to maximum leaves no chance to do slow movements, as the lamps will jump from position to position. Appendix 1 lists the scans, which will successfully interface with the MA SCANCOMMANDER. Unused features such as focus or zoom can be used as a makeshift for lamps which need additional speed information. Controlling the movement speed of these scans can be done by programming some selective memories on S1 to S10, which only set a value on to the speed channels. (>>4.3 Selective memories)

eMail: info@malighting.de · Tel.: +49 931 497940 · User's Manual Scancommander



4. Memories

Any picture on stage can be stored as a memory and recalled by touching a button. If the actual position is created by recalling a preset, any modification of this preset will cause the memory to recall the modified values. Therefore it is no longer necessary to adjust every single scene when adapting programs to a new stage setup.

4.1 Programming of basic memories



STORE button

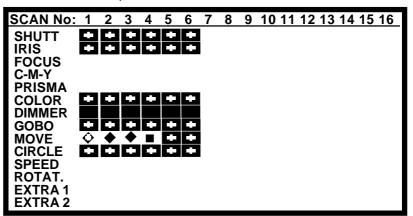
The display shows a matrix with 16 columns for the scans and 12 rows for the features. "-" in the matrix indicates, that this feature is not available for the registered scan. Small dots in the middle of a square show, that the feature for this scan was set by the encoder wheel, a cross indicates, that the value is a presetvalue.

STORE MATRIX when controlling 6 scans.



Preset values Encoder values

Stage coordinates For the beginning it is just important, to have all squares in the matrix inverted. (>> 4.3 SELECTIVE MEMORIES)

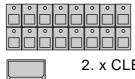


During initial programming operations, all blocks within the matrix have to be displayed in inverted contrast. In case some of the squares are not inverted, press

Selecting the complete STORE MATRIX

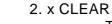
Note: if the STORE MATRIX is not completely selected, only some of the adjustments on stage are stored. (>> 4.3 Selective Memories)

1. x CLEAR button in the feature block The matrix is cleared, all blocks are not displayed inverted.



Use -CLEAR - INVERT to select all scans

SCANSELECTION

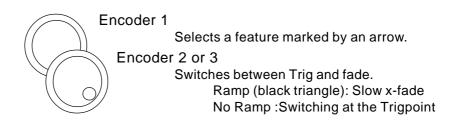


The matrix is completely selected. All blocks are displayed inverted.

The matrix is stored internally and reconstructed as soon as the next picture is stored.

Trigpoint and x-fade

Features may be selected for slow infade (indicated by the small ramp) or for fast switching to the new value (trig). A trigpoint will set, whether the switching will be done at the beginning, the middle or the end of the fade. Example: A scan may move slowly from its old position to the middle of the stage, the color is set to change quickly at 50%, means middle of the travel.



Memory pages

the PLAYBACK area right hand on the front panel offers 40 buttons for memories, whereas the upper 30 buttons can be switched to 4 different pages A to D. The right hand buttons with two LED's are able to contain chasers. A flashing LED in a page button shows the preselected page. The lower ten memory buttons S1 to S10 stay untouched by the page buttons and should be programmed to contain the mostly used memories.



MEMORY button/ (PAGE A-D)

Selects a place to store the picture as memory.

A small graphic shows the STORE matrix of this memory		PROGRA MEMORY: FREE: (8 NO NAM	A 2	۲Y	
	FADE 0.0 se	c		TR	RIG 0 %
<i>Memory name and parameters</i>		YBOARD Input of a nai TER or RETU Stores the na	RN (Keybo		
	Encoder	1 and 3 Sets x-fade t	ime and trig	point	
Storing a memory	STORE I	outton Saves the ac	tual stage a	as a n	nemory.

4.2 Playback memories

Standard Memories

Preprogrammed fade

time

Memories can be recalled by their respective buttons any time. All channels, which had been selected in the store matrix, will be set to a new value. Therefore standard memories with completely selected store matrix will recall one well defined picture on stage. The LED in the last recalled memory lites up.

4.2.1 Playback with programmed x-fade time and trigpoint

For any feature which was set to x-fade mode (small ramp in the store matrix), the output will not switch to the new value but will change slowly with the programmed fade time.

The output of the trigger features will switch as quickly as possible to their new value. The time of switching is set by the trigpoint.

4.2.2 Playback with new x-fade time

Overwriting the programmed fade time

FADE MODE switched to SET TIME

X-Fader in the playback section

The x-fader will now overwrite the programmed fade time.

Switching features will adapt their trigpoint according the new fade time.

	_
0	
0	

Memory button

Recalls the memory with the adjusted fade time.

4.2.3 Playback with manual x-fade



FADE MODE switched to MAN FADE

As soon as the fader is moved to one of the end positions (LED on), a memory can be loaded for manual crossfade.

X-FADER

Moving the fader will crossfade the values between the start position and the new memory.



MEMORY button during running fade FADE LED flashes and the memory will be recalled

FADE LED flashes and the memory will be recalled with its stored fade time.

Manual cross fades

FREEZE button

4.2.4 Freezing of single channels

The FREEZE function fixes the actual value of single channels. These channels will no longer be affected by any playback.

0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0

SCAN Selection Select a combination of scans



FREEZE button in the FEATURE block

keep button pressed ...(The display shows a matrix. The already frozen channels are displayed inverted.)

FEATURE button

The LED inside the FREEZE button lights up. For the actually selected scans the selected feature is fixed.

MEMORY button

The fixed channels get no longer affected by any memory, even if they had been selected in the store matrix of this memory.

Changing the selection of frozen channels

combination of frozen channels shown in the display. Selecting a feature where already some scans are fixed will clear the old selection of scans and will freeze the new selection. This way, for single features, the Freeze can be cleared by not selecting any scans.

Changing the scan selection and pushing another feature button will create a

Controlling frozen channels

Direct Access via presets or encoder will work even on frozen channels. The Freeze only protects against playback buttons like memories.

Clear FREEZE

The complete freeze is cleared by pushing



FREEZE button...



and simultaneously ...



CLEAR button in the FEATURE block The LED in the FREEZE button is dark.

Automatic FREEZE on FOLLOW MODE

All scans fixed to follow effect by EXTRA FOLLOW Mode are frozen automatically. This is to avoid accidental changes of the beams, which are used to track a person. (>>Fixing the followspot mode)

and simultaneously press



4.2.5 Display of Memory Names

List of memory names

Upper 5 buttons

2. line

3. line 4. line

...

The names of the memories, set during programming or editing, can be listed in the display.



LIST button at the playback section

As long as the button is pressed, the display will show the names of the actual memory page.

MEMORY	MEMORY	MEMORY	MEMORY	MEMORY
A/01	A/02	A/03	A/04	A/05
MEMORY	MEMORY	MEMORY	MEMORY	MEMORY
A/06	A/07	A/08	A/09	A/10
MEMORY	MEMORY	MEMORY	MEMORY	MEMORY
A/11	A/12	A/13	A/14	A/15
MEMORY	MEMORY	MEMORY	MEMORY	MEMORY
A/16	A/17	A/18	A/19	A/20
MEMORY	MEMORY	MEMORY	MEMORY	MEMORY
A/21	A/22	A/23	A/24	A/25
MEMORY	MEMORY	MEMORY	MEMORY	MEMORY
A/26	A/27	A/28	A/29	A/30
S/01	S/02	S/03	S/04	S/05
S/06	S/07	S/08	S/09	S/10

When releasing the button, the desk will return to the last display. This list can be recalled any time, even during STORE or EDIT function, without interrupting the actual procedure.

Permanent display

Memory S1 to S10 are the same on all 4 pages

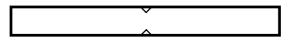
Display buttons and encoder locked

Setting names via keyboard

LIST double click (2 x pushing within 1/4 sec.) Outside STORE, EDIT or MODIFY the list can be recalled for permanent display by a double click. It automatically switches off when using the display for any other function.

All the functions of the desk remain untouched, but the display buttons and encoders will be cancelled as long as the list is in display.

The names of memory 1 to 30 are displayed with 2 x 7 characters. S1 to S10 get 7 characters each. When typing the name during STORE or EDIT, small arrows mark the beginning of the second 7 characters.



Working mode of selective memories

4.3 Selective memories

Memories and scenes may be programmed in a way, that they only affect selected channels. When this memory is recalled by its button, all other channels stay untouched.

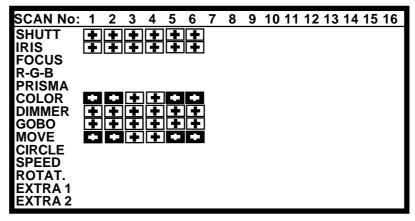
Example: a memory may be supposed to recall only a new color for scan numbers 1 to 6. The position of the beams, the gobos and all other functions stay unchanged, when this memory is recalled. Scan no.7 to 16 stay completely untouched.

4.3.1 Programming of selective memories

The STORE MATRIX, displayed any time the STORE button is pushed to save a picture, marks out, which of the channels will be controlled by this scene.

STORE button





Selecting single channels in the STORE MATRIX

A small copy of

this matrix will be

displayed during the next

step and during any edit

or modify operation.

Unlike programming standard memories, on programming selective memories only a part of the channels are selected.



SCAN Selection

Selects the scans which will be affected by the following feature



FEATURE button

For the actual selection of scans, this feature is selected. Selected channels are displayed inverted. Changing the scan selection before pushing the next feature button enables you to select any free combination of channels.



CLEAR button in the FEATURE block

Clears the complete matrix. The second CLEAR will select all features for the selected scans. The third CLEAR selects all features for all scans.

The further procedure of storing selective memories is the same as storing standard memories.

The modified STORE MATRIX is saved internally and reconstructed as soon as the next STORE operation starts.



4.3.2 Playback of selective memories

Recalling selective memories works the same way as recalling standard memories, but there are some advantages on programming selectively

Free combination of a number of selective memories:

A memory, setting the position of the scans can join together with pure color memories or pure gobo memories. The same color memory may be recalled during a running chase for movement. Operating in this way saves time when programming up and saves storage capacity.

Saving storage capacity:

On a selective memory, only the data of the selected channels get saved. Using selective memories enlarges the number of chaser steps possible to program later on.

Drawback of selective programming:

Using selective programs requires a good overview of the stored programs. As selective memories affect only selected channels, the picture they produce on stage may be different depending on the picture before.

Example: If the beams are doing a circle and a new memory only contains a new pan/tilt position, pushing this memory will only move the centre of the circle to the new position but will not stop the circle movement. To stop the circle and to send the scans to a new and well defined position, the new memory needs to contain the information "Set radius to 00" and CIRCLE has to be selected in its STORE MATRIX for all the scans.

To avoid confusion on using selective memories, the memories S1 to S10 should be programmed to contain some standard memories with fully selected STORE MATRIX.

In addition there should be some "Stop" memories like "Circle Off", which only set the circle radius to 0 for all the scans, or "Shutter Strobe Off". Modifying memories,

basic structure

4.4 Modifying of memories

A stored memory contains data for:

- Name, x-fade time and trigpoint

- Matrix with trig/fade marks for the features
- Data for the single channels

All these data can be modified without starting from the very beginning.

4.4.1 Changing names and parameters

Changing memory parameters



EDIT button

the LED inside this EDIT button is on as long as the edit mode is active.

Memory button

Memory name, x-fade time and trigpoint can be set via keyboard and encoder. Select the next memory or cancel edit mode by switching off the edit button (also possible by quit or any direct access.)

Changing the memory parameters only will not recall this memory to stage.

4.4.2 Changing matrix and data



EDIT button Memory button

Modifying single channel values or the matrix selection

MODIFY button

The selected memory gets recalled to stage and the block "MODIFY" is displayed inverted.

EDIT MATRIX

Edit Matrix has to be inverted, if the STORE MATRIX has to be checked or modified within the next steps.

Feature button

SCAN selection

Preset button or Encoder

Channel values can be modified via direct access.

1.x STORE button

Shows the STORE MATRIX of the selected memory. Selection of channels and trig/fade marks can be modified.

2.x STORE button

Saves the modified memory.

the STORE MATRIX of the last modified memory stays in the temporary storage and will be reconstructed when doing the next store operation.

 \bigcirc



4.4.3 Copying memories

By recalling



EDIT -Memory A -

 	4

COPY MEMORY button on the display

keep button pressed and simultaneously press ...

0	

Memory B Copies the memory including name, fadetime and trigpoint settings.

Copy is possible between standard memories, but not possible between chases or sequences.

5. Chaser

The right column of memory buttons contain a second LED. With these buttons it is possible to program single stage scenes as memories or complete chaser programs. Chaser programs are just a list of scenes which change with preselected step time.

5.1 Programming of chasers

Programming steps like programming memories

A small graphic shows the STORE

Matrix of this step

Programming chaser steps works like programming a memory. Whereas an old memory is erased as soon as a new stage scene is programmed to its respective button, scenes stored to a chaser button will be added to the list of steps already stored.

5.1.1 New chaser steps



STORE button

Matrix can be set

(Prepare your stage plot like on programming memory.) CHASER button (Page A-D)

00

Selecting one of the right side memory buttons (5, 10, 15, 20, 25, 30, S5 or S10)

INSER	Т	DELETE ALL				SINGLE
1		PROGF	RAI	МСН	ASE	
2		CHASE:	A	\ 25		LINK FADE
		STEPS: FREE:	2	(947)	70)	STEP FADE 0.00 sec
						STEP TRIG 0 %
	3	SPEE		0.500 H 2.000 S		

DELETE ALL

the chase

Clears the chase and erases all old steps.

STORE

Stop chaser after one run

]
Γ		7

SINGLE square Inverted: The chaser will stop automatically when reaching

the last step

Saves the stage picture as a new step at the end of

Normal: The chaser will return to step one and will go on running.



CHASER SPEED	5.1.2 Prog SPEED	gramming chaser parameters - sets the time between the different steps					
STEP FADE STEP TRIG	STEP FADE	STEP FADE- sets the x-fade time between the single steps					
	STEP TRIG	- sets the trigpoint between the single steps					
		RE MATRIX may be different from step to step, the listed parameters or the complete chaser program.					
		Encoder 2 Speed in Hertz (steps / sec.) and in seconds.					
		STEP FADE or STEP TRIG Inverts the respective block in the display. In case LINK FADE is selected, the fade time is set in percentage of the step time Encoder 3 Changes the selected parameter. The step fade is allowed to be longer than the step time (SPEED). This makes sense if the fading channels are not selected in the next step. Otherwise they will not find the time to do their fade. (>> selective programming)					
	5.1.3 Inse	ert or delete chaser steps					
Step sequence	automatically	chaser button is selected to store a new step, the step counter will by jump to the old step number + 1. This way the new picture will s the new last step of the chaser.					
		Encoder 1 Selection of a step number.					
Insert a new step		INSERT Shifts the selected step and all following steps one step back and inserts the new picture at the selected place.					
Overwrite an old step		STORE button					

Overwrites the selected step by the new picture. The total number of steps stays unchanged.

5.2 Playback chasers

Start a chaser	Chaser programs are recalled by their respective buttons like any other memory. Each step will control output channels according to its STORE MATRIX. Selective programmed steps keep deselected channels untouched.
Termination of a chaser	A second push on a chaser button will not stop the chase but will make it start again with step number one. On the MA SCANCOMMANDER always the latest pushed button has the highest priority. To stop a running chaser, all the channels, which are actually controlled by the chaser steps, have to be overwritten by recalling a memory or preset in direct access.
Partly overwriting a running chaser	Recalling selective memories may overwrite parts of the channels, controlled by the chaser. Therefore the chaser looses its priority on these channels, whereas other channels may still be controlled by the next chaser steps. A chaser may control color, and movement of the scans. If the color has been overwritten by recalling a pure color memory or any color preset in direct access, the chaser will still go on to control movement, but it has no longer priority over the color. This makes it possible to do the same movement with different colours. In the same way a selective memory may control all features of only one or two scans. Recalling this memory after starting a chaser will cut down the effect of the chase as it can no longer control these scans. The rest of the scans will continue with the chaser steps.
Freezing single channels	Channels, fixed to their value by the FREEZE function, will no longer be affected by chaser steps. After clearing the FREEZE the chaser resumes control of these channels.

5.2.1 Enable Chaser

Chaser recall without going back to step 1

The ENABLE function allows the chaser to resume control of all channels without starting at step 1.

0	

ENABLE button at the sequence section.

Keep button pressed ...

... and simultaneously press ...



Chaser button The next step of the chaser is enabled to control all channels according its step matrix.



5.3 Modifying a chaser program

A stored chaser program contains data for:

- Name, SPEED, STEP FADE time and STEP TRIG

- Point
- a STORE MATRIX per step
- a set of single channel values per step

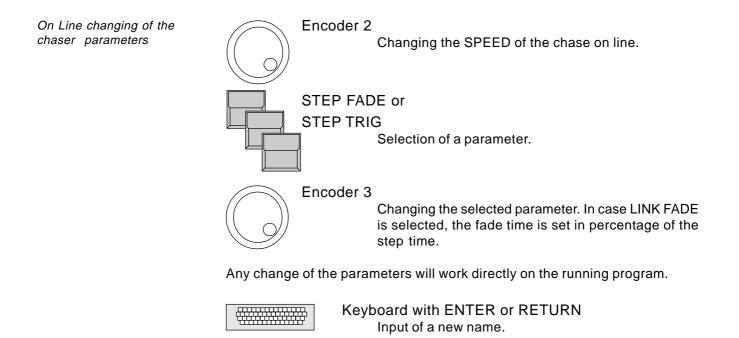
5.3.1 Changing names and parameters



Chaser button

EDIT button

MODIFY			SINGLE
1	EDIT	CHASE	
2	CHASE:	A 25	LINK FADE
	STEPS: 2 FREE:	(94770)	STEP FADE 1.00 sec
			STEP TRIG 0 %
•	3 SPEED	0.500 HZ 2.000 Sec	

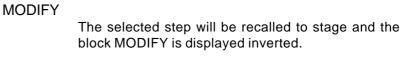


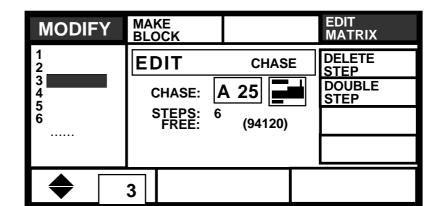
5.3.2 Changing sequence of steps



EDIT button Chaser button

Modify mode shows the steps on stage





Testing of the steps		Scrolls through the steps and recalls the steps on stage.
Deleting a step		TEP Erases the selected step and shifts all following steps one step ahead.
Creating a new step		STEP Makes a copy of the selected step and inserts this copy right in front. The new step may now be modi- fied. (see >> 5.3.3 Changing step matrix and levels)
Block operations		BLOCK Inverts the menu block contrast. The block operation mode starts, where a complete set of steps can be handled simultaneously.
		Selects steps for the following block operations. The number of the selected steps are displayed inverted.

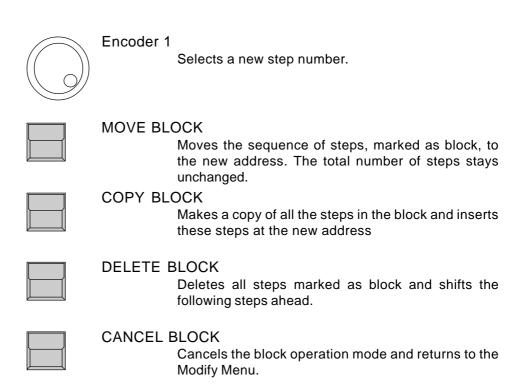




2. x MAKE BLOCK

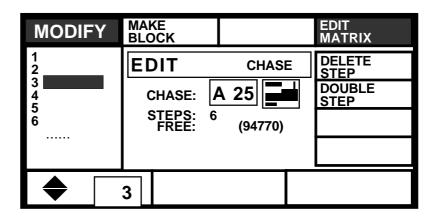
The four sections on top show the different block operations available.

MOVE BLOCK	COPY BLOCK	DELETE BLOCK	CANCEL BLOCK
1 2 3 4 5 6	EDIT CHASE: STEPS: 6 FREE: 6	CHASE A 25 (94770)	BLOCK START: STEP 3 END: STEP 5 INFO
◆	7		



5.3.3 Changing step matrix and levels







EDIT MATRIX

Edit Matrix has to be displayed inverted, if the STORE MATRIX will be checked or modified within the next steps.

Testing the single chaser steps

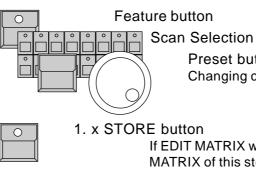


Encoder 1

Scrolls through the list of steps and recalls the steps on stage.

Note: Scrolling backwards through a selective chaser with different STORE MATRIX selections from step to step, will not produce the same pictures as scrolling forward. To be sure to see the right scenes switch off MODIFY, turn to step one and switch on MODIFY. Now, scrolling through the steps forward, will produce the right scenes.

Changing the channel values and the matrix of a step



Preset button or Encoder

Changing channel values via direct access.

If EDIT MATRIX was selected, it will show the STORE MATRIX of this step.

2. x STORE button

Saves the modified step and returns to the modify mode.



6. Sequences

Difference between chaser and sequence programs

Individual step parameters

GO MODES

Overwriting during playback

Linking steps to memories or chaser programs

Like a chaser a sequence contains a list of pictures stored as steps. The additional features of the sequence give the chance to prepare complete light shows and to recall them by the push of a button.

- Unlike the chaser steps, every step of a sequence may have its individual parameters. The time, until the next step starts (STEP TIME), the x-fade time and the trigpoint may be different from step to step.
- The steps may be triggered via GO button, by SOUND INPUT, they may be recalled by manual x-fade or on automatic mode with an internal timer and preprogrammed or with an adjusted step time.
 - GO MODE, STEP TIME and FADE TIME of the single steps can be set manually to overwrite the programmed parameters.
 - Standard chaser programs and memories can be recalled as one step of the sequence.
 - A sequence menu lists the actual and next steps

Programming and modifying a sequence works similar to the chaser proarams.

6.1 Programming of sequences

Saving new steps works like saving new chaser steps.

Programming sequence steps

_		
	0	
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Ľ		

STORE button

6.1.1 New sequence steps



Matrix can be set (Prepare your stage plot like on programming memory)



SEQUENCE button 1 - 16 Selecting one of the 16 sequence buttons.

Programming of sequence steps

INSERT	DELETE ALL		SINGLE
1.0 🛣	PROGRA	STEP TIME 1.00 sec	
2.0 P 2.1 🗖	SEQUENCE:	1	LINK FADE
2.2 3.0 <u></u>	STEPS: 5 FREE:	STEP FADE 0.00 sec	
	NO NAME		STEP TRIG 0 %
6 🚡	STEP :	3.5	

Compared to programming a chaser step the following functions are available:

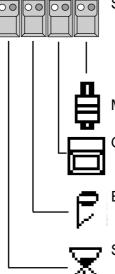
Individual and freely adjustable step numbers



ENCODER 2

Each step has its individual number from 0.0 up to 99.9. Like a name this number will stay with the step during all copy and move operations. Encoder wheel: first digits Encoder ring: digits after the decimal point

Different GO MODES



STEP MODE buttons at the Sequence Playback

Sets the GO MODE for this step, which marks, how the step will be recalled when running the sequence. The selected mode is shown by the LED inside its respective button and is displayed on top of encoder 1.

MAN FADE

Manual x-fade via the X-FADER in the sequence area.

GO BUTTON

The step has to be recalled by the GO button.

EXT SOUND

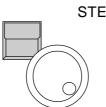
The step will wait for a sound impulse.



SET RATE

The step will be recalled automatically, as soon as the STEP TIME of the last step runs out.

STEP TIME for timed step following



STEP TIME and

ENCODER 3

Sets the time between this step and the start of the next one, if the next one is on GO MODE "SET RATE".



All other functions work exactly the same way they do on chaser programming.

Selecting a step number.

Deleting the old program



DELETE ALL Clears all steps of the sequence.

Stop with the last step

SINGLE Inverted:
 Normal:

The sequence will stop automatically when reach ing the last step The sequence will return to step one and will go on running.

Selecting one step

Setting the step parameters



STEP FADE or

Encoder 1

Unlike on chaser steps, the step parameters will be stored individually for every single sequence step.

Changing the value of the selected parameter. In case LINK FADE is selected, the fade time is set

in percentage of the step time

ENCODER 3

C

Saving the step

INSERT

Shifts the selected step and all following steps one step back and inserts the new stage scene at the selected place.

STORE button

Overwrites the selected step by the new stage plot. The total number of steps remains unchanged.

	6.2 Playback of sequences
Starting a sequence	A sequence is started by its respective button like any other memory.
	By any memory or chaser, recalled by its respective button after the start of the sequence, the sequence may loose its priority. If the memory was a selective one, some of the channels may still be available for the sequence, if it was a standard memory with fully selected STORE MATRIX, the following steps of the sequence will no longer have any effect on stage.
Red LED in the Step Mode buttons	A red LED in one of the STEP MODE buttons indicates, how the next step has to be recalled. The internally stored step mode is indicated by the green LED's, but has no effect as long as a red one is on.
Green LED in the Step Mode buttons	Green LED's: Only if none of the red LED's is on, the next step is triggered by the internally stored step mode.
GO buttons	GO+ and GO- buttons are always working, like the EXTERN GO input via 1/4" jack on the back panel does.
Set Time LED	SET TIME LED: if the LED is on, the x-fade time between the steps can be set by the fader. The internally stored x-fade time of the steps has no effect.

6.2.1 Playback of a sequence by GO button

Sequence via GO button



00

0000

"GO BUTTON" Step Mode selected (red LED on)



00

SEQUENCE button 1-16

The LED in the button shows the selected sequence..



GO+ button Recalls the first step of the sequence



Recalls the steps one by one.



GO- button

Recalls the previous step. Note: When using standard memories, the GO- button will really recall the right stage picture. When using selective programmed steps, recalling a step via GO- may have another effect than recalling this step via GO+.



6.2.2 Playback of a sequence with adjusted step rate

Sequence playback with adjusting rate via fader

RATE Fader S or br

"SET RATE" Step Mode selected (red LED on)

button shows the selected speed.

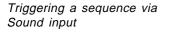
SEQUENCE button 1-16

The first step will be recalled as soon as the sequence button is pushed. All other steps will follow automatically with the adjusted time.

Sets the sequence speed between 0.1 and 10 seconds per step. The yellow LED inside the SET RATE

6.2.3 Playback of a sequence triggered by sound input

On the backpanel the SCANCOMMANDER offers a 1/4"jack for sound signal input. The 3 potentiometers on the top of the front panel can be used to select a trigger signal. The HOLD LED shows the trigger signal leaving the filter as it is triggering the sequence.



0	00	

0

"EXT SOUND" Step Mode selected (red LED on) The steps of the sequence is recalled by the sound input.

6.2.4 Manual x-fade between sequence steps

X-FADER has to be moved to one of the end positions.

Manual x-fade step to step (from version 1.40)

0

SEQUENZ button 1-16

SEQUENZ button 1-16

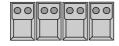


"MAN FADE" Step Mode selected (red LED on)

X-FADE fader at the sequence section				
Moving the fader will fade between the steps. As				
soon as the fader reaches the end of its travel, the				
next step will be loaded for x-fade.				
Moving back before the end of its travel is reached				
will return the output to the last scene.				

6.2.5 Playback of a sequence with programmed STEP MODE

Running a sequence with internally stored STEP MODE



STEP MODE buttons switched off (All red LED's off)

SEQUENZ button 1-16



Green LED's indicating internal STEP MODE



GREEN LED's inside the SET MODE buttons Show the step mode of the next step, as it was set when programming the sequence. If one of the green LED's is on, the sequence waits for a trigger signal. By the GO button the next step can be recalled any time.

$\circ \circ$	00	00	00
		\square	\square

No green or red LED inside the SET RATE buttons The next step will follow automatically as soon as the STEP TIME of the last step runs out. Note:

The yellow LED inside the SET RATE button will not show the internally programmed STEP TIME, but will always show the rate set by the fader.

Sequence recall without going back to step 1

6.2.6 Enable Sequence

The ENABLE function like on Enable Chaser allows a sequence to resume control of all channels without starting at step 1. A sequence, which has lost access to some channels because of a direct access or memory recall, can now continue as programmed.



ENABLE button.

Keep button pressed ...

... and simultaneously press ...



Sequence button of the actual sequence

The next step of the sequence is enabled to control all channels according its step matrix.



6.2.7 Sequence playback menu

Sequence playback menu

The MENU button at the sequence section swaps the display to list informations about the running sequence program.

MENU button

recalls the menu with number and name of the running program at the top line. The total number of steps is shown in brackets.

S	EQ.	1		NA	ΛE		NEXT
ST	EP		TIME	FADE	TRIG	NAME / MATRIX	<
02	2.0	X	5.075 S	ec 0.0	00%		
03	2.1		0.075 S	ec 15	00%	A/10 COLOR CHASE	R 1
04	3.0	ê	12.00 S	ec 1.5	50%		
05	3.1	X	0.00 S	ec 0.0	00%		
	GO)					

Line one lists the step which was recalled last. Line 2 to 4 show the next steps. Each line shows step number, indicator of go mode, steptime, fadetime and triggerpoint.

Right hand a small graphic shows the matrix of the steps (see 4.3), indicating which channels get affected by this step.

If the step is a LINK MEMORY step, the number and name of the memory is listed instead of the graphic.

Left side on the bottom line the go mode is shown on black background. If the next step is a timed automatic, the remaining time is listed on the display.

The graphic right on the bottom line shows which channels are still

controlled by the Sequence. As soon as this graphic is empty and all channels are overwritten by any memory or preset playbacks - the sequence has no more effect on stage.

Changing step order by jumping to another step number

$ \rightarrow $	$ \longrightarrow $		
\square	\square	\square	\square

GO BUTTON Step Mode or MAN FADE selected (red LED on)

Stops the running sequence. NEXT is displayed right on top of the display.



NEXT button pressed and simultaneously ENCODER 3

Via the encoder any step number can be selected to be the next step on the sequence.

6.3 Modifying a sequence

All data of a sequence are data of single steps. They can be changed as soon as these steps are selected. Global changes of speed or fade time, as it is possible on the chaser programs, can be done by overwriting the stored values via SET RATE and SET FADE.

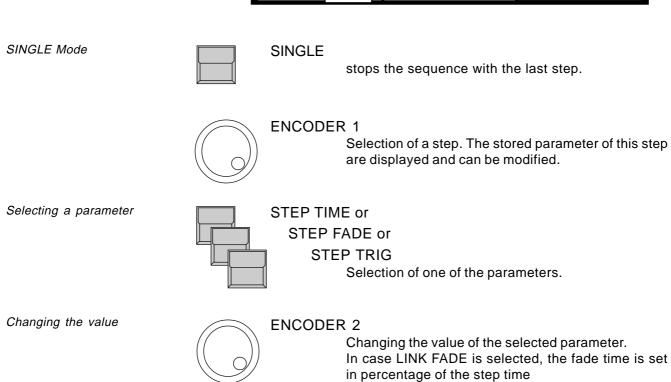
6.3.1 Changing sequence step times

Changing step parameters



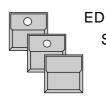
EDIT button Sequence button 1-16

MODIFY		SINGLE
10 🕱	EDIT SEQUENCE	STEP TIME 2.00 sec
1.0 峯 2.0 ₽ 2.1 급		LINK FADE
2.2 IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	STEPS: 5 FREE: (94770)	STEP FADE 1.00 sec
	NAME	STEP TRIG 0 %
	4	





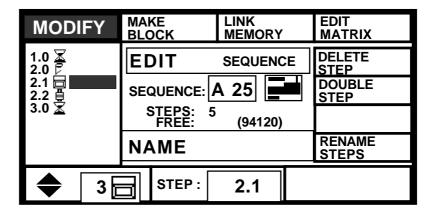
6.3.2 Changing step sequence and STEP MODES

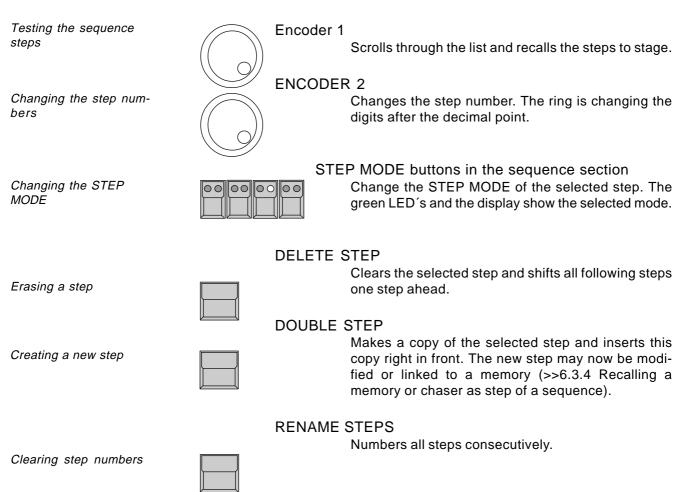


EDIT button Sequenz button 1-16

MODIFY

The selected step are recalled to stage and the square MODIFY is displayed inverted.





Starting block operations

Selecting steps



Inverts the display square. The block operation mode starts, where a complete set of steps can be handled simultaneously.

Encoder 1

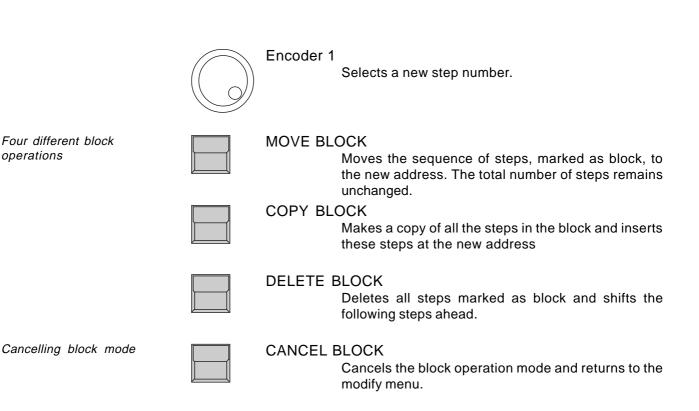
Selects steps for the following block operations. The numbers of the selected steps get inverted.



2. x MAKE BLOCK

The sections on top of the display show the different block operations available.

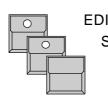
MOVE BLOCK	COPY BLOCK	DELETE BLOCK	CANCEL BLOCK
1.0 <u>조</u> <u>2.0</u> 문	EDIT	SEQUENCE	BLOCK
2.1 同 2.2 貞 3.0 文 3.5	SEQUENCE: STEPS: 6 FREE:	1 (94770)	START: STEP 3 END: STEP 5
			INFO
•	7		



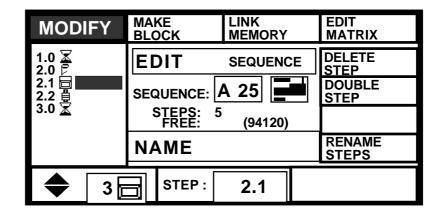
1. x MAKE BLOCK Inverts the dis

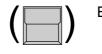


6.3.3 Changing step matrix and levels



EDIT button Sequenz button 1-16 MODIFY





EDIT MATRIX

Edit Matrix has to be inverted, if the STORE MATRIX will be checked or modified within the next steps.

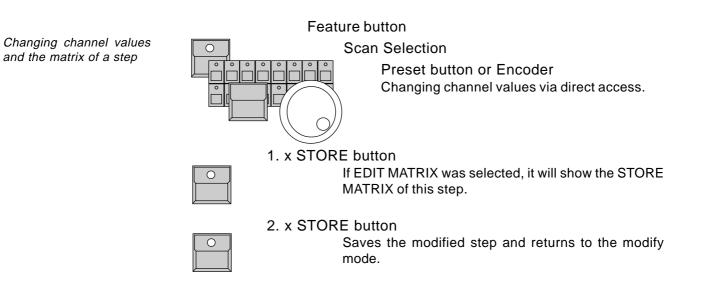
Testing single steps



Encoder 1

Scrolls through the list of steps and recalls the steps on stage.

Note: Scrolling backwards through a selective sequence with different STORE MATRIX selections from step to step, will not produce the same stage scene as scrolling forward.



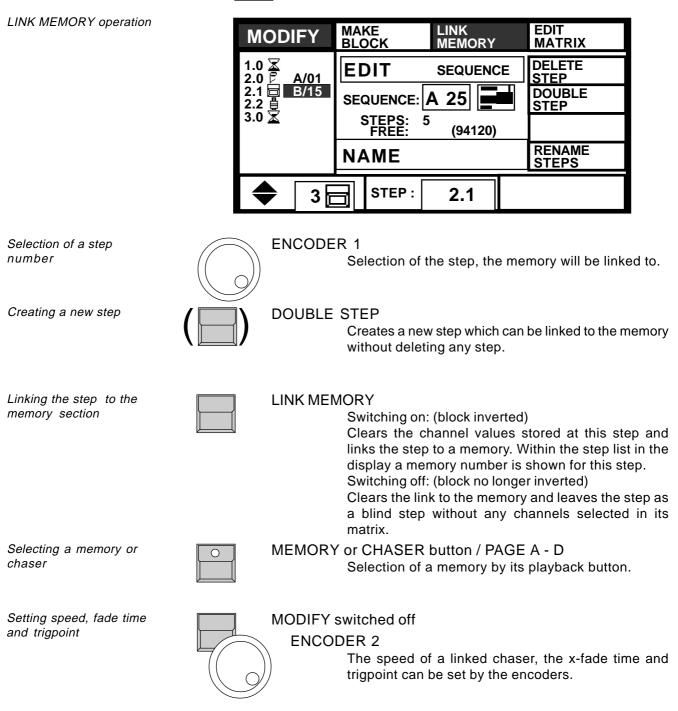
6.3.4 Recalling a memory or chaser as step of a sequence

Memories and chasers as steps of a sequence

Memories and chasers of the playback section can be recalled as a step of a sequence. This saves programming time and storage capacity.



EDIT button Sequenz button 1-16 MODIFY





7. REMOTE

MIDI

MIDI IN

ON/OFF SMPTE

ON/OFF

ON/OFF DMX

ON/OFF

TOUCHBOA.

The MA SCANCOMMANDER features several remote input facilities. The different incoming signals can be linked to the playback functions of the board.

REMOTE button in the Top Menu

TOUCHBOA.

NO EVENT

NO EVENT

NO EVENT

NO EVENT

MENU

The display switches to the REMOTE Top Menu.

DMX

MENU

SMPTE

MENU

REMOTE Top Menu

Switching remote inputs on and off



MIDI IN ON/OFF SMPTE ON/OFF TOUCHBOARD ON/OFF DMX ON/OFF

An inverted block indicates, that the appropriate input is activated. MIDI and SMPTE inputs can not be active at the same time.

Indicating incoming remote signals

NO EVENT

With MIDI the last incoming signals will be listed in the display. With DMX and Touchboard inputs, small icons show the actual status of the input channels.

Х Input Channel is not connected to any function.

Input channel controls fader. Inverted icon shows the value of the incoming signal.

Input channel controls button. Icon inverted indicates button active.

Across the top of the REMOTE Menu are four buttons which activate the remote initialization menus.

7.1 Remote via Touchboard

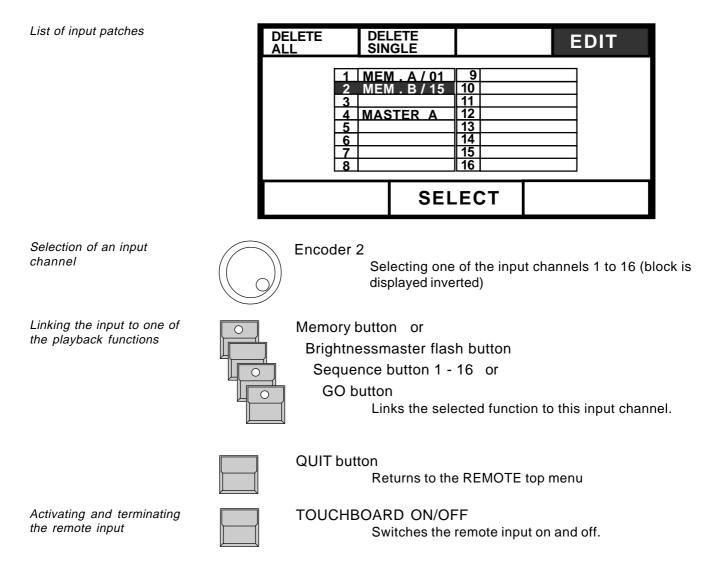
7.1.1 Input signal

Touchboard input

Located on the SCANCOMMANDERS backpanel is a 25 pin SUB-D connector (female) which can be used to interface a standard 16 channel touchboard. Pin 1-16 : Input channel 1 to 16 Pin 25: Ground. The touchboard can only be used to control on and off functions. 0 to +2 Volt : Off +5 to +15 Volt : On.

7.1.2 Assigning board functions







7.2 Remote via DMX input

7.2.1 Input signal

Daisy chaining a DMX signal

The male DMX 512 input XLR connector on the backpanel can be used to mix the signals of any lighting console with the control data of the MA SCANCOMMANDER and send them to the stage on one DMX line. For any channel which is controlled from both consoles simultaneously, the two values get compared and the highest level will be sent to stage.

Remote via DMX In addition, up to 24 DMX 512 input channels can be used to remote control single functions on the SCANCOMMANDER.

> The pin layout for the DMX 512 input connector conforms with USITT protocol. Pin 1 = Ground, Pin 2= Data - , Pin 3 = Data +

7.2.2 Assigning board functions



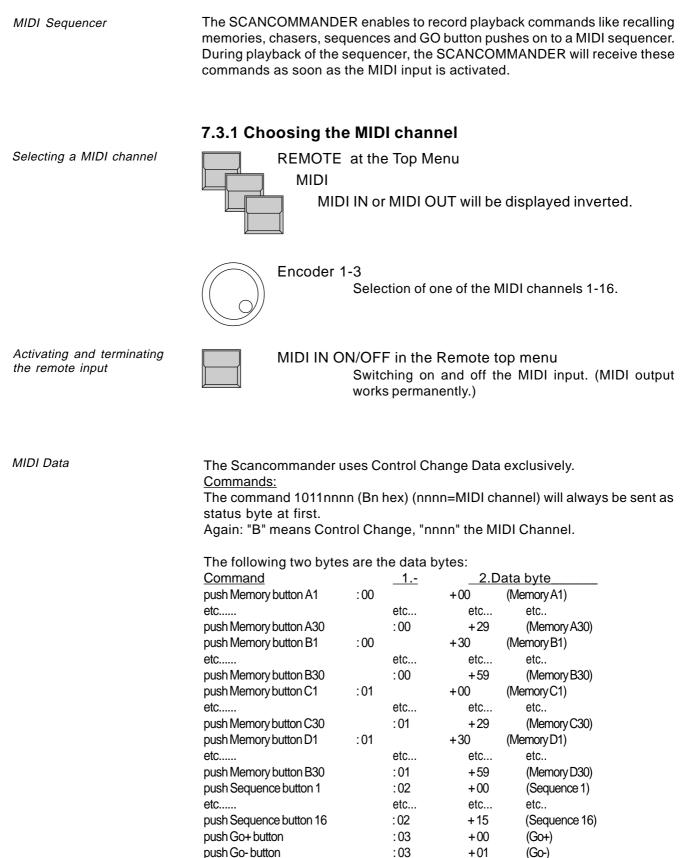
REMOTE button in the TOP MENU DMX MENU



EDIT

List of input patches	DELETE ALLDELETE SINGLE22MEM . A / 0423MEM . A / 0534MASTER A40MASTER B	
Selection of an input channel	Encoder 3	DMX 23 e of the 24 squares (inverted) MX input channel.
Linking to one of the playback functions Activating and terminating the remote input	Links the select channel.	ne as on remote via touchboard) ted function to the selected DMX ote top menu note input on and off.

7.3 MIDI



eMail: info@malighting.de · Tel.: +49 931 497940 · User's Manual Scancommander



Controlling more than 16 scans

Installation for master-

slave operation

When controlling more than 16 scans, two Scancommander or an additional Extension unit (see 7.6) can be linked in a master-slave mode. All operations are controlled via the master board, at the slave only the display and the single

Master-Slave Operation

scan selection buttons keep on working.

7.4.1 Installation

7.4

MIDI OUT connector of the master has to be connected to MIDI IN at the first slave unit.

More slaves can be added using the MIDI THRU port of the previous slave

The DMX output of all coupled units can be used as separate DMX lines. Via the DMX input and by patching all scans to different DMX address numbers, the control signals of more than one Scancommander can be send on one DMX line.

7.4.2 Starting the couple mode

The first step is to prepare the slave units

REMOTE at the Top Menu

MIDI M

MODE SLAVE has to be inverted

The last step is to set up the master board via REMOTE - MIDI - MODE MASTER. If a SLAVE is used with a software version smaller than 4.20 it is then really necessary to press the button "Mode: Old master".

The following RESET will send all necessary data from the master to all slave units. If any slave comes later than the master, it will wait for a master reset (lowest display button left side or switching off and on the master power supply).

7.4.3 Working on master-slave mode

As far as the setups are not done before starting the couple mode, the first steps will be SETUP LAMPTYPE, DMX and MOVEMENT.

All functions including trackerball movements, group selection and brightness master are send from the master to the slave units.

Just the single scan selection button have to be operated at the according units. To make sure that during DMX PATCH and MOVEMENT SETUP only one scan is handled at a time, all other scans have to be deselected manually.

Instead of a second Scancommander, a 19" Scancommander Extension can be used as slave (see 7.6).

Activating the couple mode at Remote MIDI

Transfer of all functions to

the slave unit

7.5 SMPTE TIME CODE

SMPTE and EBU Time Code

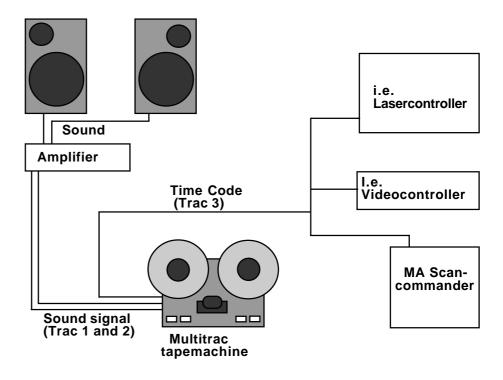
Complete shows can be synchronized via Time Code. The Scancommander works with 24 to 30 frames per second. Selecting the right frame number will be done automatically as soon as a Time Code signal is supplied or can be selected manually.

7.5.1 Time Code Network Technics

Time Code synchronization Time Code synchronization can be used to recall the programs of one or more controllers simultaneously to a recorded music.

SMPTE and EBU Time Code are digitally coded time informations, which for example can be recorded to a separate track of a tape machine. The frequency domain covers 1 to 2 kHz. Usually this Time Code will be recorded when preparing the music for a presentation, but it can also be added afterwards by any sound studio. When using stereo sound it is necessary to have at least a third track on the machine, for preparing a Time Code show .

Time Code generation



Synchronized playback During playback of the tape the Time Code signals are sent to all connected controllers. Each device has stored in memory, which program has to be

recalled at which time. The Time Code input at the Scancommander is on the 1/4" jack at the

The Time Code input at the Scancommander is on the 1/4" jack at the backpanel.



7.5.2 Live recording of a Time Code show

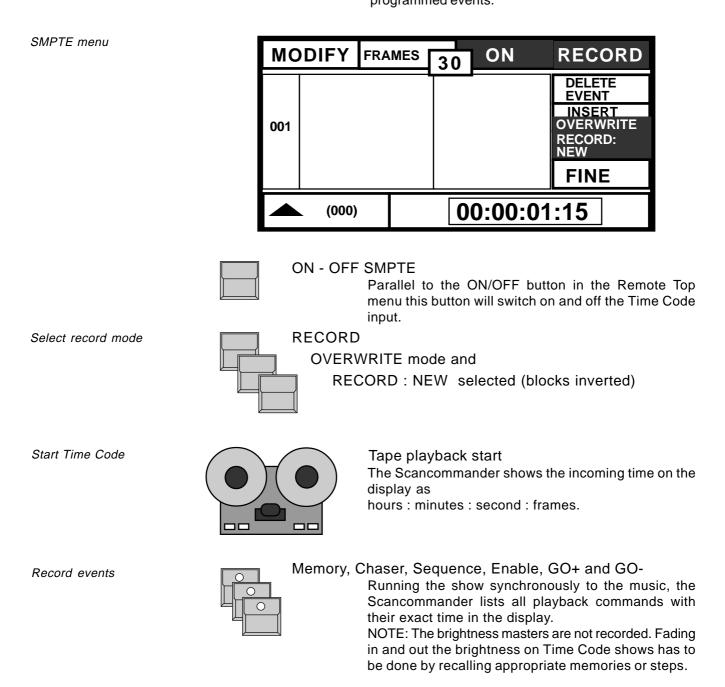
The RECORD mode enables to type in the program during running Time Code.

Recording a show



REMOTE at the Top Menu

SMPTE MENU The display shows the SMPTE Menu with a list of the programmed events.



List of Time Code events

MC		MES	30	ON	RECORD
009 010 011 012 013	00 : 00 : 10 : 00 : 00 : 10 : 00 : 00 :	15 02 03	MI SE	M. A/02 M. A/03 QU. 01 O + M. B/02	DELETE EVENT INSERT OVERWRITE RECORD: NEW FINE
	(053)		0	0:00:1	2:23

Terminate record mode

RECORD

Switching off the button will terminate recording.

Beside recording a new show, the Scancommander offers different modes to complete or replace parts of an already stored show. Three options can be selected when recording (Time Code ON and RECORD selected) :

insert a new event.

Insert additional events

INSERT OVERWRITE INSERT mode selected



Memory, Chaser, Sequenz, Enable, GO+ and GO-The already stored show is played back synchronously to the music and every new playback command, selected by its button, will

Overwrite parts of a show



OVERWRITE -

RECORD : NEW mode selected (like explained for recording a new show)



Memory, Chaser, Sequenz, Enable, GO+ and GO-Within the recorded period all old events are erased. To keep parts of a show, RECORD has to be switched off before the running Time Code reaches this period.

Overwrite starting with the first modification



OVERWRITE -

RECORD : PRESET

mode selected.

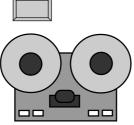


Memory, Chaser, Sequenz, Enable, GO+ and GO-The old show is played back and keeps unchanged. The first push of a playback button starts the record mode and all following events are erased until Record is switched off.



7.5.3 Time Code Playback

Playback start via taperecorder



STOP

Switch off RECORD mode

Tape machine

in the SMPTE menu

When starting a new playback of the tape, the Time Code will be sent to the controllers again. As long as the Time Code input is active, the Scan-commander will recall the events as they are stored inside.

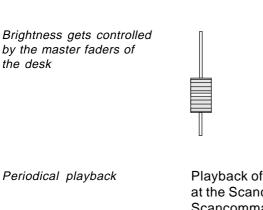
The input is waiting for a Time Code signal.

The Remote Top menu shows the incoming time and the last event. The SMPTE menu shows the actual section of the event list.

show because of illegal timing.

Unreadable or missing Time Code signal

NOTE !



Master Fader

As the brightness masters are not recorded on Time Code, they must be up during playback. Optionally the SETUP function "MASTERS ALL 100%" can be switched on.

NOTE: Never record any event while STOP is displayed. The Scancommander now records more then

one event on the last frame and will clear the SMPTE

Playback of Time Code synchronized shows recommend no further operation at the Scancommander. Every time the tape starts to send the Time Code, the Scancommander will recall the programmed events. Even after switching off and on the power supply, the Scancommander will stay in the Time Code playback mode.

Overwriting a running Time Code show During a running Time Code show, all functions of the Scancommander stay active and can be used for manually overwriting the program. Only a GO+ or GO- command of the event list will have no effect, if the running sequence was started manually. All other events will work as if the according playback command was selected directly. To stop the Time Code show and go on manually, the Time Code input has to be switched off. Returning to Time Code any time will continue the show with the events, stored for this section.

Starting playback in the
middle of a showA Time Code show can be started at any point of the tape. Using selective
memories or sequences this may cause changes in the effect on stage.
(GO commands do not recall well defined stage pictures, but do just trigger
the last selected sequence to go to the next step).

7.5.4 Modifying a Time Code program

Beside the Record mode, single events of a show can also be created or modified step by step.



REMOTE

SMPTE MENU

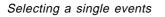
The display shows the SMPTE menu with a list of the programmed events.

Modify mode



MODIFY (block displayed inverted)

MO	DIFY	FRAMES	30	OFF	RECORD
009 010 011 012 013 014 015	00 : 00 : 00 : 00 :	10 : 15 11 : 02 11 : 03 12 : 15 13 : 15 15 : 02	MI SE MI MI	M. A/02 M. A/03 QU. 01 O + M. B/02 EM. A/05 OO +	DELETE EVENT INSERT OVERWRITE RECORD: NEW
016 017	00:00: 00:00:		-	6O - <u>EM. A/01</u>	FINE
	(053)		0	0:00:1	2:15





Encoder 1

Scrolls through the list of the programmed events. Scrolling up will recall the events step by step.

Changing the event time



Encoder 2 and 3

Change the time of the selected event.

FINE

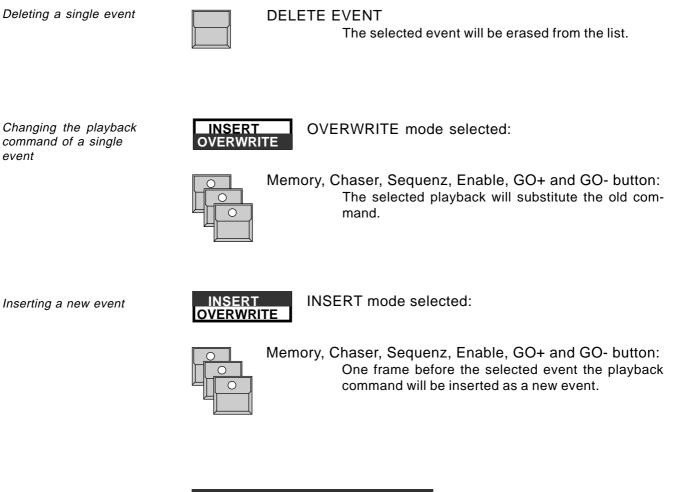
When FINE is selected, the encoder will change the time in single frames or minutes, otherwise they will do a course adjustment.



Display

The time of an event can only be selected within the period of the last and the following event.





Error warning



Display There is no frame available to insert

a new event.

MAKE BLOCK operations:

Like on chaser or sequence modify, it is projected to offer block operations also on the Time Code list. This will be added within one of the next updates.

7.6 The Scancommander Extension Unit

The SCANCOMMANDER EXTENSION is a 19" unit with

- display with 12 display buttons and one encoder
- 16 scanselection buttons,
- cue card slot
- keyswitch
- all input and output connectors of a Scancommander

MASTER-SLAVE mode

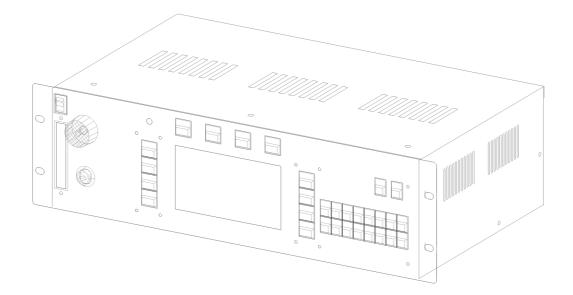
Using the Extension as slave it will be switched to slave mode like a Scancommander. As noted in 7.4 only the display and the single scan selection buttons will work.

REMOTE operation (DMX, MIDI, Touchboard)

Programs can be set up at a Scancommander and transferred to the Extension via the cue card. The remote inputs can be used to recall the playbacks. As the Extension unit has no brightness master faders, the SETUP function "MASTERS ALL 100%" has to be switched on as long as the masters are not remote controlled via DMX. All necessary steps to start the remote operation can be done at the Extension unit directly.

STAND-ALONE operation (SMPTE Time Code) For playback of SMPTE Time Code synchronised programs the Extension can be used as a stand-alone unit.

(SETUP function "MASTERS ALL 100%" has to be switched on).





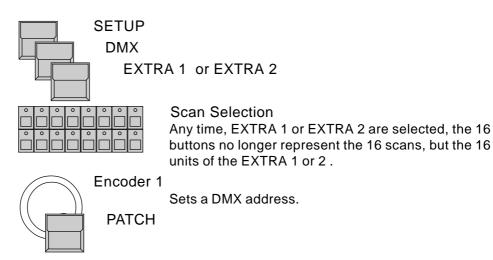
8. Dimmer and color changers

Dimmer and color changer

In addition to the channels for the 16 scanners, the MA SCANCOMMANDER offers additional 96 channels to control dimmers, color changers or any other DMX receiver. Like the features of the scans, these channels can be selected via EXTRA 1 and EXTRA 2 and can be controlled via encoder or presets. To include these EXTRA channels in any memory, chaser or sequence step, they have to be selected in the STORE MATRIX when storing any scene.

8.1 Assigning EXTRA channels

Because the EXTRA channels control only simple functions, there is no need for a major initialization process as with full function scanner. The units get initialized as soon as a DMX address is registered in the SETUP DMX menu. EXTRA 1 and EXTRA 2 can each address 16 units with up to 3 channels each. The exact number of channels per unit is automatically adjusted according to the free DMX channels following the selected address.



Each EXTRA unit may have up to 3 channels (number in brackets). The actual number will be adjusted automatically according to the free DMX channels following the selected address.

8.2 Direct access to EXTRA channels

EXTRA 1 and 2 on direct access



 \bigcirc

EXTRA button inside the feature block must be on The red labels under the feature buttons become valid.



EXTRA 1 or EXTRA 2 button (red labels)

As with controlling scan features, the actual selection will determine, which of the channels get controlled simultaneously.

Encoder 1 to 3

Control the channels of the selected units.

Selection of the unit number

Initialization by setting a

DMX address

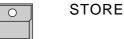
Selection of a DMX address

Number of channels per unit

EXTRA 1 and EXTRA 2 groups

8.3 EXTRA groups and brightness master

EXTRA 1 and EXTRA 2 have their own groups.



Keep button pressed and select one of the EXTRA

and simultaneously



GROUP buttons A - H Stores a group for the EXTRA selection.

During EXTRA 1 or EXTRA 2 in DIRECT ACCESS the group buttons recall the EXTRA groups instead of the scan groups.

When controlling color changer on EXTRA channels, this groups can be set to be not under the control of the master faders. On dimmer channels EXTRA can be set to be mastered by the fader.

EXTRA controlled via the brightness masters



SETUP

The display buttons right hand side allow the following settings:



The values on display will be send to stage independent from the master faders (color changer).



The values on display will be reduced according the setting of the group faders.

EXTRA 1 and 2 Presets

8.4 EXTRA presets

As on any scan feature, for EXTRA 1 and EXTRA 2 presets can be programmed and used for quick and direct access.



PRESET in the top menu

EXTRA turned on

EXTRA 1 or EXTRA 2

The display shows the *ADJ.PRES* EXTRA x Menu

Controlling color changers via EXTRA becomes very easy by using the presets. As with the color channel of the scans the different colours can be prepared and labelled in their display blocks.

Even controlling dimmer channels via EXTRA is more handy when certain values are stored as presets. For every EXTRA there are 4 pages offering 44 presets. As the value of the single channels may be different within a preset, complete lighting cues can be stored as presets.



EXTRA 1 and 2 as part of playback programs

Programming the EXTRA 1 and 2 via a standard lighting console

8.5 EXTRA channels in memories

EXTRA 1 and EXTRA 2 channels like any other scan feature can be selected in the STORE MATRIX.

By using selective programming, it is possible to program memories or steps, which control only the EXTRA channels, whereas other memories may control only the scans and keep the dimmers and color changers untouched.

Instead of setting the values for EXTRA 1 or 2 via the encoder wheels or presets, it is possible to set the values via a standard DMX console, connected to the Scancommanders DMX input.

- 1. The DMX output of the lighting console goes to the DMX input of the Scancommander, the Scancommander DMX output goes to stage.
- 2. EXTRA 1 or 2 units get patched to the same DMX addresses like the lighting board channels. The Scancommander will compare the incoming value and the Scancommander setting for the values and the highest will be send to stage.
- 3. EXTRA 1 DMX INPUT

The DMX INPUT in the SETUP menu has to be selected

4. STORE

Storing any memory or chaser step will take the DMX input values as set at the lighting console and will store it within the Scancommanders memory. The actual values at the Scancommander are ignored.

5. When modifying a picture via EDIT-MODIFY-STORE the Store will work as regularly.

After programming the memories, the lighting console can be disconnected and the memories can be recalled via the Scancommander.

To avoid clearing the EXTRA channel by any STORE operation, switch off "EXTRA X DMX INPUT" as soon as the lighting console is disconnected.

Playback of the composed memories

!! ATTENTION !!

Display index

9. Utilities

9.1 Display index

Active special functions are listed in the Top Menu.

No index:	No special function active, trac	ckerball switched off
MOUSE:SLOW MOUSE:FAST	Trackerball working on high rea Trackerball working on low res	
SINGLE	Scanselection set to single sca	an mode (change via OPTION button)
MIDI IN/OUT	MIDI Remote active	
MASTER	Console operates in master m	ode (see 7.4)
00:00:15	SMPTE TIME Code input activ	е

RUNNING FADE

Global modification of all running fades



+/- 00%

In the Top Menu encoder number two can be used to slow down or speed up all running fades simultaneously

Indication of any fixed channels

FREEZE/FOLLOW Active

When recalling any memory, chase or sequence step, single channels may be frozen via the FREEZE function or via MODE FOLLOW. Therefore the memory can not be reproduced completely. This restriction is displayed by a short alert showing "FREEZE/FOLLOW ACTIVE "(see 4.2.4 and 3.3.3)



9.2 Storage of programs

Intern storage capacity of the SCANCOMMANDER

The SCANCOMMANDER stores all programs internally. The number of scenes, which fit the storage capacity, depend on the size of the single scenes.

- Memories controlling scans with 4 to 6 channels will need less space than scans with 12 or more channels.
- Selective memories or steps only keep the data for the selected channels. This way they also save space.

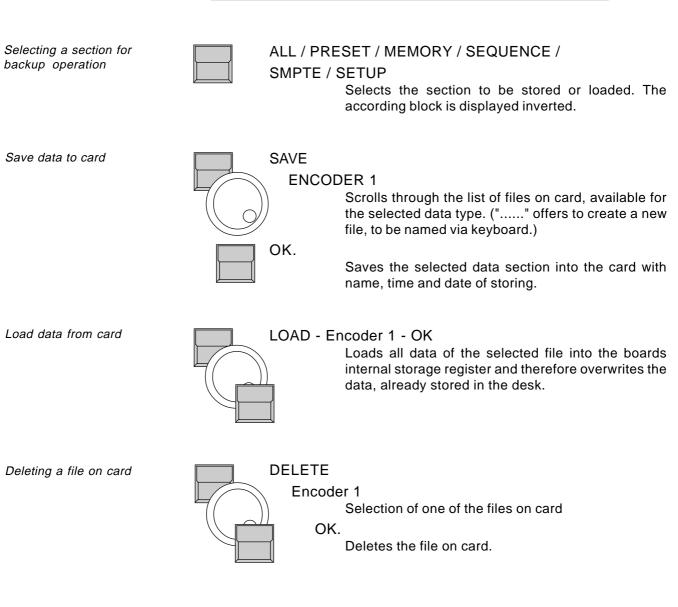
Therefore the exact number of scenes, possible to store internally, ranges from 600 to more than 6000. The storage space still available is displayed by FREE:(.....) during any STORE operation. As soon as the limits are reached (Display shows: NOT ENOUGH MEMORY), some of the unused programs have to be cleared (see 9.3) or modified to selective programs.

9.2.1 Backup on to memory card

Backup on cue card Beside the internal storage, programs can be stored externally on to cue card. Storing on a cue card can be done in sections, for example only SETUP data or only memory and chaser programs. The SCANCOMMANDER will accept cue cards of the type ITT Star Card S-RAM from 32 to 256 KByte, but as accessories it is recommended to use a 256 KByte card. The card fits into the slot on the upper left side of the frontpanel, the arrow on the card has to point to the left side. BACKUP on the Top Menu The SCANCOMMANDER changes to the backup menu and tests the card. WRITE : ENABLED - PROTECTED A small switch on the card can be used to protect the programs stored in the card. FILES : and FREE : (.....) Number of files already saved on the card and freely available storage capacity. New cards have to be formatted after adjusting the battery. Formatting the cue card FORMAT (only for new cards -A name can be set for the card via the keyboard. clears all data on card) OK. Formats the card, clears all data on the card and

prepares a file administration.

ALL (86254)	PRESET (16210)	MEMORY (34556)	SEQUENCE (512)
MACROS (512)	TEST 1 10.10.58	256 K 01 / 19 / 93	SMPTE (512) SETUP
FORMAT DELETE	WRITE : EN FILES: FREE:	(5120) USER SCAN 1536	
SAVE		(124233)	LOAD



!! ATTENTION !!

The date of inserting a new battery should be noted on the cue card in order to replaced it after 1 year. When exchanging the battery the card will keep its memory for at least 30 second. Please remove the card from the desk as long as the card is not in use!



9.3 Clearing programs

CLEAR ALL

A CLEAR function allows to clear all programs within the Scancommanders intern memory.

Keep all four buttons on top of the display pressed down when switching on the Desk.



The Scancommander swaps to the CLEAR menu. Section by section the programs can be deleted. Every clear has to be reconfirmed by "OK" or the process can be stopped by "CANCEL".

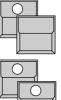
By pressing the CLEAR ALL button all programs will be deleted simultaneously and all saved parameters will be reset to default values.

Clear single memory, chase or step

Protecting programs

Clearing a single memory is done by overwriting the old memory with a new one with completely cleared STORE MATRIX.

Clears the complete matrix.



STORE button

CLEAR button in the feature section

Memory button

STORE button

Overwrites the old memory with a pseudo memory, containing no data.

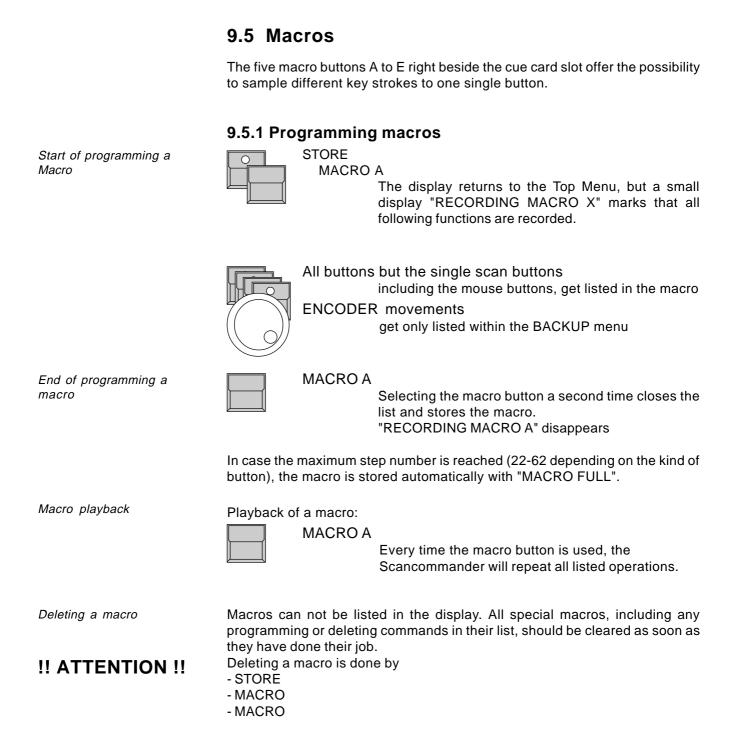
Deleting a single chase will be done by STORE - CHASER - DELETE ALL in the program chase menu.

Deleting a single chase step can be done via EDIT - CHASER - MODIFY -DELETE STEP.

9.4 Keyswitch

The keyswitch right on top of the front panel allows to protect the programs against unauthorized modification.

ACCESS ALL	All functions of the Scancommander are available
LOCK PRG	
	All playback functions are available, programming or modifying pictures is not possible.
LOCK DESK	
	All buttons, encoders and faders on the front panel are locked, but internally running programs go on. Playback via any kind of remote input or master slave communication keep on working.





9.5.2 Macro user examples

Simplify the chase programming:

- STORE
- CHASER x
- STORE
 - must be stored as a macro.

Playback of a few memories (with delay):

The Scancommander can store up to 50 button instructions.

If a macro recalls

- 20 x Memory A/1,
- 10 x A/2 and then
- A/3 ,
 - so will be first done A/1, after 0.4 second delay A/2 and after 0.2 second A/3. Longer delays can be realized by programming chases or sequences.

Exchange of all memories:

- A macro is stored :
- BACKUP
- MEMORY
- LOAD
- Encoder on file list start
- Encoder on file
- OK
- QUIT

a second macro loads an other memory file.

With these two macros a complete set of new memories can be loaded very fast.

Start of a follow action with the actual scan selection:

With the macro

- Pan/Tilt
- Preset "Vocal "
- EXTRA
- FOLLOW
- FREEZE FOLLOW

the actual scan selection can be set to position "Vocal" and at the same time fixed on the trackerball.

10. Inputs and outputs

Mains (Power Supply)	The Scancommander can be connected to an AC Powersource between 90 and 240 Volt AC (40-60Hz). The powerswitch is located on the front panel at the top right hand side.
DMX 512 output	The DMX output conforms to USITT DMX 1990. Every unit using this protocol can be successfully interfaced with the Scancommander.
	The DMX Output is optically isolated and exceeds the RS485 Norm. Pinout: pin 1 = Shield pin 2 = Data - pin 3 = Data + pin 4 = not connected pin 5 = not connected
DMX 512 input	 The DMX Input allows operation of two different functions: a. All incoming DMX-Data will be merged with the Data produced by the Scancommander. The highest value takes precedence at the DMX output. b. To remote various functions of the Scancommander via DMX, e.g. coupling a lightning desk and a Scancommander. For configuration see "Remote".
Sound input	The connector is a Mono or Stereo Phone Jack 6,3mm and the input is galvanic insulated. Input impedance is ca. 3K Ohm, the threshold is min. 3 mV. The electrical connection is tip and sleeve. The Sound Input controls are located on the upper left side of the front panel.
	Adjustment: Turn the volume control until the left LED begins to light; higher inputs are limited automatically. To get the best results, the frequency control should be turned to the left for low frequencies (50 Hz), to the right for high frequencies (2 kHz). "Hold-Off" control should be initially set full left.
	To avoid double triggering of a bass drum for example, rotate "Hold Off" as needed. At full right, "Hold Off" time is a full six seconds.
SMPTE Time Code	The Sound Input doubles as the Time Code Input. The electrical connection is the ring + common (galvanic insulated). The input impedance is ca. 3 kOhm, the minimal level ca.200mV.
Remote GO input	 The Remote Go input is a 6.3 mm Phone Jack connector. a) For electrical contact-switch use the ring and tip. b) For 5 Volt Impulse use the tip and common. Danger! Maximum 5 Volt at this input; a higher voltage may damage the Scancommander. The connection is a 25 pin Sub-D.



Touch board input	This input is used to control 16 different functions (similar to the DMX-Input). For the configuration see "Remote". Pinout: pin 1 = function 1 pin 2 = function 2 etc pin 25= common The threshold level is between 4V and 10V. Input impedance is 100 kOhm.
Trackball or mouse	Necessary to work comfortably in the Follow Mode and to set the Pan/Tilt position. The trackerball connector is compatible with the ATARI norm. PC compatible trackerballs will not work with the Scancommander.
Keyboard	Necessary to enter the names of the Memories etc. The connector is a 5pin Din. Every PC compatible AT/MF-keyboard can be used.
ATTENTION!!	All DMX512 and analogue inputs and outputs must be shielded and the shielding must be connected to the ground and the case of the corresponding plug.

11. Defining your own Scans

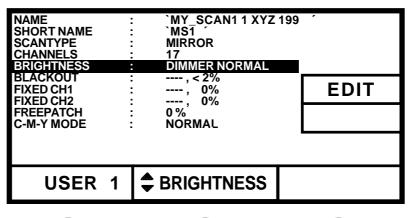
Starting with software version 4.x the Scancommander now offers the possibility to define your own lamptypes. These lamptypes can be then used like any other default lamptype in the LAMPTYPE SETUP.

This new feature enables the adaptation of the software to new scantypes which are not listed in the factory setup or lamptypes which has changed their channel order. All characteristics (e.g. name, type, channel order of DMX control and brightness master functions) can be programmed for up to 16 free definable types.



MAKE LAMPTYPE

SETUP





Encoder 1: Selects the number of the free definable scan between 1 and 16. <u>Attention</u>: This number does not correlate with fixture number 1 to 16 which has to be assigned later. So the lamptype "USER 1" can be used for all 16 lamps in the LAMPTYPE SETUP. Encoder 2: Selects the line to be edit. Encoder 3: Selects some parts of adjustments. If the adjustments are more complex, the EDIT button will lead to further menus.



Explanation of the different parameters	NAME SHORT NAME	 `MY_SCAN1 1 XYZ 199 ´ `MS1 ´ The name of the lamptype (19 characters) and the shortname (6 characters) can be entered by the keyboard
Mirror or headlamp	SCANTYPE	: MIRROR
		Selection of MIRROR or HEAD (e.g. Vary* lites). This function is only valid for the stage movements.
Channel order	CHANNELS	: 17
	EDI I	F eads to the menu for the channel order:
	CH. 2 : T CH. 3 : G CH. 4 : C CH. 5 : D CH. 6 : P CH. 7 : C CH. 8 : Y CH. 9 : C CH.10 : G CH.11 : N	GOBO2 CH.13 : PAN ILT CH.14 : IRIS GOBO1 CH.15 : SPEED1 GOBO1 CH.16 : FROST DIMMER CH.17 : SHUTTER PRISMA CH.18 : YAN CH.18 : GOLOR2 CH.21 : GOLOR2 CH.21 : MAGENTA CH.23 : OCUS CH.24 :



USER 1

ENCODER 2 and 3:

CHAN.

Selection of the DMX channel (inverse) and the corresponding function. These channels must be selected and set up one by one.

1

GOBO 2

24 channels can be programmed to the functions of the Scancommander. These functions can be selected by encoder 3 in the following order:

Gobo 1 Gobo 2 Color 1 Color 2 Dimmer Cyan Magenta Yellow Prism Iris	Shutter Speed 1 Speed 2 Special Gobo1-Rotation Gobo2-Rotation Prism Rotation Pan Pan fine



CLEAR

Deletes all settings starting with the selected channel for this user type.



Leads back to the MAKE LAMPTYPE menu.

Assignment of the brightness master

BRIGHTNESS DIMMER NORMAL :

The brightness of different groups can be controlled via the Scancommander's brightness master. The channels that are affected by the brightness masters, are programmed in the BRIGHTNESS and BLACKOUT menu.

EDI	-	to the menu defi	ning the	e brightness master	1
BRIGH CHANNEL MODE		DIMMER NORMAL		RETURN	
USE	R 1	🗘 CHANI	NEL	DIMMER	
	CHAN dimme MODE: I	ed by the brightn NORMAL resp. I	nd funct channe ess mas NVERS	el can be selected ster (normally dimme	ər).
BLACKOUT	Corres		BRIGHT	NESS menu a chanı to 0 if a specific thr	

(e.g. 5%) is reached.



Special functions Fixed channels	FIXED CH1 FIXED CH2	:, 0% :, 0%			
	_	This functions enables you to set two channels to a fixed level. This channel must be connected first to an unused function of the Scancommander. Than it can be fixed in the FIXED CH1 resp. FIXED CH2 menu to a specific level. Later this channel will not be affected by any function of the Scancommander.			
	l	(For example: The (Lightwave research) Studiocolor needs channel 16 to be set at 00).			
Free patch of one of the scan	FREEPATCH	:			
functions		The last function of the filed channel list can be sepa- rated optionally from the other DMX channels of the scan. Later this function can be patched separately. Therefore it must be selected by the third encoder.			
		(Example: In the VL5 of Vari*Lite the dimmer is separated from the other control channels and is controlled by an external dimmer. By the FREEPATCH function this dim- mer address can be entered separately)			
		If a lamp was defined in the FREEPATCH menu it will appear in the LAMPTYPE SETUP menu as follows:			
	SC	AN - button			
		MER here the lamp can be selected and patched separately			
Adaptation of the colour mix function	C-M-Y MODE	: NORMAL (optionally INVERS)			
		Up to now the scan manufacturers do not agree to an uniform colour mix. Some work with C-M-Y, others with the R-G-B colour mix. To reach a better control of the			

colour mix function the C-M-Y function can be inverted.

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Fixture Library SC 4.31

Manufacturer	Fixture Name	No. of	Channels
OPEN	No Scan		No Scan connected
ABSTRACT	Futurescan	4	
ADB (BBA)	Ingenio BBA LR	6	Color changer
	-		
AMPTOWN	ACC Posi Spot Contr.PML MK2	4 12	
	Contr.WL HX	7	
	Contr.WL HP	10	
B + K	Varytec	5	
CAMELEON	Telescan MARK I Telescan MARK IV	8 19	
CLAY PAKY	Miniscan 300	4	Brightness Master optional fading or switching Gobo
	Miniscan HPE Goldenscan2	7 6	Brightness Master optional on Iris or Shutter
	Goldenscan3	6	Bightness master optional on this of Shatter
	Goldenscan3	8	
	Goldenscan HPE	12 12	
	Superscan Superscan MRG	12	
	Superscan Zoom	12	
	Superscan Zoom	16	
	Stage Scan Stage Light 300	17 10	
	Stage Color 300	10	
	Stage Color 575	14	
	Stage Color 1000	11	
	Stage Color 1200 Stage Color SV 1200	14 14	
	Golden Spot	13	
	Golden Color 1200	10	
	Stage Zoom Stage Zoom SV 1200	19 20	
	Shadow	4	Followspot only
	Tigerscan	6	
	Pinscan Bazuka	3 6	
	Polycolor	6	Color changer
	Tiger MRG	4	5
	Tiger COLOUR Changer Combicolor	3 4	Calor changer
			Color changer
COEF	Performance 200 Performance1-3	6 6	
	Performance3	9	
	Performance4	10	
	Coef 1200 Disco Color Show 200	8 5	Color changer
	MP 250 Optic HR+	9	
COEMAR	MP 250 FRESNEL HR+	9	
COEMAR	Microscan 1/2 400/650 Microscan 3	6 8	
	Samurai	8	
	MINI ULTRA 200/250	6	
	MINI ULTRA 2 NAT MM 1200 DX	8 10	
	NAT MM 1200 PR	13	
	NAT MM 1200 ZOOM	20	
	MM 2500 Zoom Nat TM 1200 DX	20 12	
	Nat TM 1200 DX Nat TM 1200 DXP	14	
	Nat TM 1200/4000	20	
	Nat TM 2500	21	
	CF 1200 Hard Edge CF 1200 Spot	20 13	
	PC 1000 CC	8	
	Duetto	6	
	Pchmi CF7 Zoom Wash	9 13	
	CF7 Hard Edge	20	
DAH	Digital Beamlight	10	



Manufacturer	Fixture Name	No. of	Channels
EASYLIGHT	Twist HTI 300 DMX Easylight Scan 3 Easylight Scan 3D2 Easylight Rainbow Easylight Colore LC Easylight Colore 2	4 6 7 2 2 4	
FAL	FAL 2000 FAL 2500 XL/XLD FAL 2500 XLDX Roulette 575/1200 Proscan II HR Proscan X HR Promo 2/3 Three-Sixty Three-Sixty	7 11 14 8 14 13 6 8 10	
FLY	FOS 3 / 4 Palette	12 5	Followspot
FUTURE-LIGHT	Miracle CC-200 SC-330/370 Promotion Scan HR Genesis Voyager Duke 1200 Advert Scan HR SC-250 SC-530/570 SC-740 SC-740 SC-740 SC-780 SC-940/980 MH-640 MH 660 Spot MH-840 MH 860 Spot	4 4 11 8 8 8 11 6 10 13 16 16 16 16 16 16	
GENIUS	Omega2	10	
GLP	Mini Star Tec Mighty Scan MAX Startec 2000 Startec 1200 Joy 300 Patend 575 PAN_coars Patend 575 PAN_FINE Patend 1200	6 6 8 7/9 12 11 13 13 13	
GRIVEN	Cruise	11	
HIGH END	Trackspot Technobeam HR Technobeam Iris HR Intellabeam Intellabeam HR Cyberlight CX Mode3 Cyberlight Mode2 20 Studiocolor Studiocolor 250 Studio Spot 575 Studio Spot CMY Studio Beam PC V1.0 Studio Spot 250 Technopro HR Trackspot mainlight	7 18 18 13 15 20 16 15 24 24 16 18 18 12 5	(NO MOVEMENT)
	Technoray hR Dataflash	14 3	
J.B.	Varyscan 1 Varyscan 3 SP+ Varyscan 3 SP+ Varyscan 3 700 Varyscan 4 Varyscan 4 EV Varyscan 5 MV Varyscan 6 spot Varyscolor 6 wash Varycolor	4 6 8 13 8 11 22 12 12 12 6	

Varycolor

6

Scancommander _____

Manufacturer	Fixture Name	No. of	Channels
LAMPO	Sintesi+Super Columbus 1200 AF	6 10	
LICHTTECHNIK	Motor Yoke 300,330	17	
LITEBEAM	Swing I Swing II Chandra I Chandra II Swing II HR Chandra II HR	6 12 7 12 14 14	
LYTE QUEST	MotorHead	5	
MAD LIGHTING	Qscan Scan611	5 6	
MARTIN	Roboscan 804/805 Roboscan 218 Roboscan 218 m3 HR Roboscan 518 m3 HR Roboscan 518 m3 HR Roboscan 812 Robo 918 m4 Robo 1020 Robo 1220 Imagescan m2 Robo 1220 rpr m4 Pal FX 1200 m4 Mac 2000Profile Mac 1200 m4 Mac 600 m4 Mac 600 m4 Mac 600 m4 Mac 600 m4 Mac 500 m4 Mac 250 m4 MiniMac Pr m4 MiniMac Pr m4 MiniMac WS m4 MX-1 Robocolor / MSD EX Robocolor pro4 Robozap Robozap MSR Centerpiece H3+4=G0	5 7 9 9 7 16 12 16 9 17 20 24 14 14 15 16 13 13 10 8 6 5/6/7 5 4 6 7	Mode 4 only, with 6 or 8 EXTRA channels Color changer, Optional 5 or 7 channel
MORPHEUS	PANa Beam Coloure Fader Dimmer	7 4 4	
MOVITEC	SL-250 WL-250 SL-575 WL-575	16 16 16 16	
OBIES	Xescan	10	
OMICRON	Omicron Laser	16	
OPTIKINETICS	Solar System	7	
SAGITTER	Prince Super Prince Infinity HR Infinity MSZ HR Infinity Club Infinity Live Tracer Mask Color Zoom Moving Spot 250 / 575 Moving Wash 250 / 575	6 10 12 14 12 20 5 10 16 16	PRINCE and SUPER PRINCE TEMPLATE Followspot
SGM	Galileo 1 Galileo 2 HR Galileo 3 HR Galileo 4 HR Giotto Victory1 Victory2 Giotto Spot 250/400 Giotto Wash 1200 Giotto Spot 1200 Giotto 1200 Doors	6 12 14 18 13 9 12 22 13 18 18	



Manufacturer	Fixture Name	No. of Channels
SHOWPRO	Cyberscan HR Accubeam AB-400 Accucolor	10/13 4 2/3 Color changer
SLS	Panscan 3 Junior Panscan4 HR	5 1 5
SPACE CANNON	Target + Devil	8
STARLITE	Starlite 2G HR Starlite Mk5	9 19
STRONG	Mini Scan Rotax Big Scan 3	6 1 2
STUDIO DUE	Varybeam CityColor Live Pro 1200 CMY Live Pro 1200 PRISM Live Pro 1200 FROST Stratos HR Stratos CMY R.Gobo Stratos CMY Iris Minibeam Giant HR Light Reflector Predator Carioca Stratos HR Dim neg Stratos LR Dim neg	7 7 20 16 15 15 15 6 9 7 6 5 14 12
SUMMA USA	Summa hti	9
TAS	Crono CF6	9 1 2
THEATRE PROJECTS	Sky Art PAL (PPTTFC)	7 6
VARI*LITE	VL1 VIm m3 VIm m4 Ex VI5/VI5B m3 VI5 m4 16B Ex VI5 Arc m3 v5.1 VI5 Arc m4 16B Ex VI6 m3 16Bit VI6 m4 16B Ex VI6 m5 16B Ex VI6 m5 16B Ex VI6B m5 16Bit VI6B m5 16Bit VI6B m6 16B Ex VI7 m7 16Bit VI7 m8 16Bit Ex VI7 m8 16Bit Ex VI7B m9 ADD6 Extra VI220X 16bit Std. VI2401 16bit Std. VI2401 16bit Enhe VI2402 16bit Std. VI2402 16bit Std. VI2416 16bit Std. VI2416 16bit Enhe	6 10 13 11 14 10 13 10 13 10 13 11 14 14 17 17 20 17 14 17 20 17 14 17 20 17 12 15 12 15 12 15
X&Y	Yoke XL MN 400 Wash MN 400 Spot MN 600 Wash MN 600 Spot	7 12 13 14 14

Appendix 1:

List of manufacturers and scans, possible to control via the Scancommander

(Version 4.31 from Nov. 2001):

Manufacturer "OPEN"

Scan type: NO SCAN Short name: -- no channels connected -To be used to disconnect any lamp

Manufacturer: ABSTRACT

Scan type: FUTURESCAN 2-CE Short name: FUT 2 Movement:Head - no Brightness Master DMX channel order 2: Tilt 3: Color 1 1: Pan 4: Gobo 1 Presets available

Manufacturer: ADB (BBA)

Scan type: INGENIO BBA LR 6 CH.					
Short name: INGENT					
No Movement -	Brightness Master	on Dimmer			
DMX channel order					
		3: Dimmer			
4: Frost 5	: Speed 1	6: Speed 2			
Presets available					

Manufacturer: AMPTOWN

Scan type: ACC_POSI_SPOT Short name: ACC Movement:Head - Brightness Master on Dimmer DMX channel order 1: Pan 4: Color 1 2: Tilt 3: Dimmer Presets available

Scan type: PML MK-2 Short name: PML MK

Movement: Head - Brightness Master on Dimmer

Dresste sveileble				
10: Focus	11:	: Color 2	12:	: Rotatiion 1
7: Pan fine		Tilt coarse	•••	Tilt fine
4: Gobo 1		Color 1	6:	Pan coarse
1: Dimmer		Iris	3:	Shutter
DMX channel order				

Presets available

Scan type: WASHLIGHT HALOGEN

Short name: WLHA	LO			
Movement: Head	- B	rightness Master	on	Dimmer
DMX channel order 1: Dimmer 4: Tilt 7: Cyan	2:	Focus Yellow		Pan Magenta

Scan type: WASHLIGHT HP

Short name: WL HP

Movement: Head	- Bi	rightness Master	on l	Dimmer
DMX channel order				
1: Dimmer	2:	Shutter	3:	Pan
4: Tilt	5:	Yellow	6:	Magenta
7: Cyan	8:	Color1(Filter)	9:	Focus
10: Special(lamp of	n/of	f)		

Manufacturer B+K

Scan type: VARYTEC

Short name: VARYTE

Movement: Mirror - Brightness Master on Dimmer

DN	IX channel order				
1:	Color 1	2:	Gobo 1	3:	Pan
4:	Tilt	5:	Dimmer		

Manufacturer CAMELEON

Scan type: TELESCAN MARK I Short name: TELE S Movement: Mirror - Brightness Master on Dimmer DMX channel order Pan 2: Tilt Dimmer 1: 3: 5: 4 Gobo 1 Cyan 6: Magenta 8: Focus 7: Yellow

Scan type: TELESCAN MARK IV

Short name: TELE 4

Movement: Mirror	- Brightness Mast	er on Dimmer
DMX channel order	r	
1: Pan coarse	2: Pan fine	3: Tilt coarse
Tilt fine		
7: Iris coarse	8: Iris fine=Shut	
	11: Yellow	
13-14: Scroller co	arse-fine=Gobo 1-	-2 15: Frost

		00101101	000100	
16	Cor	rector-C	olor 1	

17-18: Rotation coarse-fine=Rotation 1-2

19: Ignition=Special

Scan type: TELESCAN MARK IV PART1

Short name: TELE 4

Movement: Mirror - Brightness Master on Dimmer

DMX channel order				
1: Pan coarse		Pan fine		
Tilt fine	5:	Ventil.=Speed 1	6:	Dimmer
7: Iris coarse	8:	Iris fine=Shutter	9:	Cyan
10: Yellow		: Magenta		

Scan type: TELESCAN MARK IV Part2

Short name: TELE 4

Movement: Mirror - Brightness Master on Dimmer

DMX channel order

1-2: Scroller coarse-fine=Pan coarse-fine 3:

- Frost Corrector=Color 1 4:
- 5-6: Scoller Pos.coarse-fine=Tilt coarse-fine Ignition=Special 7:



Manufacturer CLAY PAKY

Scan type: MINISCAN TRIG GOBO Short name: MINI T Movement: Mirror - Brightness below 50% will close Gobo DMX channel order 1: Color 1 2: Gobo 1 3: Pan 4: Tilt

Presets available

Scan type: MINISCAN FADE GOBO

Short name: MINI F Movement: Mirror - Brightness Master linear on Gobo DMX channel order 1: Color 1 2: Gobo 1 3: Pan 4: Tilt

Presets available

Scan type: MINISCAN HPE						
Short name: MINI H						
Movement: Mirror - Brightness Maste on Shutter						
DMX channel order						
1: Color 1		Rotation 1		Gobo 1		
4: Shutter 7: Prisma	5:	Pan	6:	Tilt		

Presets available

Scan type: GOLDENSCAN 2 IRIS

Short name: GOLD	2				
Movement: Mirror - Brightness Master on Iris					
DMX channel order					
1: Iris	2: Color 1	3: Gobo 1			
4: Shutter	5: Pan	6: Tilt			
Presets available - Option switches 1 and 2 on					

Scan type: GOLDENSCAN 2 SHUTTER

Short name: GOLD 2Movement: Mirror- Brightness Master on ShutterDMX channel order-1: Iris2: Color 14: Shutter5: Pan6: TiltPresets available- Option switches 1 and 2 on

Scan type: GOLDENSCAN 3 6 Channel

Short name: GOLD 3

Мо	vement: Mirror -	Bri	ghtness Master o	n S	HUTTER (Dimmer)
DM	IX channel order				
1:	Iris	2:	Color 1	3:	Gobo 1
4:	Shutter	5:	Pan	6:	Tilt

Presets available

Scan type: GOLDENSCAN 3 8 Ch.

Short name: GOLD 3

Movement: Mirror - Brightness Master on SHUTTER (Dimmer) DMX channel order

	Gobo 1 esets available		Rotation 1		
	Shutter		Pan	6:	Tilt
1.	1115	Ζ.		5.	FIISIII

Scan type: GOLDENSCAN HPE

Short name: GOLD H

Movement: Mirror - Brightness Master on SHUTTER (Dimmer) DMX channel order Color 2 Tilt 1: Iris 2: Color 1 3: Shutter Pan 4: 5: 6: Prism 8: Rotation 3 9: Focus 10: Gobo 1 11: Gobo 2 12: Rotation 1

Presets available

Scan type: SUPERSCAN

Short name: SUPER

Movement: Mirror - Brightness Master on Dimmer DMX channel order

DIVIX channel ord	er	
1: Iris	2: Color 1	3: Gobo 1
4: Shutter	5: Pan	6: Tilt
7: Dimmer	8: Prism	9: Focus
10: Cyan	11: Magenta	12: Yellow

Presets available

Scan type: SUPER MRG

Short name: S MRG

Movement: Mirror - Brightness Master on Dimmer

DMX channel order				
1: Iris	2:	Rotation 1	3:	Gobo 1
4: Shutter	5:	Pan	6:	Tilt
7: Dimmer	8:	Color	9:	Focus
10: Cyan	11:	Magenta	12:	Yellow

Presets available

Scan type: SUPER ZOOM 12 Ch.

Short name: S ZOOM

Movement: Mirror - Brightness Master on Shutter (Dimmer)

DM	X channel order				
1:	Iris	2:	Color	3:	Gobo
4:	Shutter	5:	Pan	6:	Tilt
7:	Prism	8:	Zoom	9:	Focus
10:	Cyan	11:	Magenta	12:	Yellow

Presets available

Scan type: SUPER ZOOM 16Ch.

Short name: S ZOOM

Movement: Mirror - Brightness Master on Shutter (Dimmer)

DMX channel order		
1: Iris 4: Shutter 7: Frost 10: Cyan 13: Gobo 2 16: Prism Rotation	 Color Pan Zoom Magenta Rotation 1 	3: Gobo 1 6: Tilt 9: Focus 12: Yellow 15: Prism

Presets available

Scan type: STAGE SCAN 17Ch.

Short name: STAGE

Movement: Mirror - Brightness Master on Shutter (Dimmer) DMX channel order

1:	Iris	2:	Color	3:	Frost
4:	Shutter	5:	Pan	6:	Tilt
7:	Zoom	8:	Focus	9:	Prism
10:	Prism-Rot.	11:	Gobo 1	12:	Gobo 2
13:	Rotation 1				Magenta
16:	Yellow	17:	Remote Lamp S	witc	h = Special

Scan type: STAGE LIGHT 300

Short name: SL 300

Movement: Head - Brightness Master on Shutter (Dimmer) DMX channel order

1:	Color 1	2:	Rotation1(Gobo)	3:	Gobo1
4:	Shutter	5:	Pan	6:	Tilt
7:	Frost	8:	Focus	9:	Pan fine
10:	Tilt fine				

Scan type: STAGE COLOR 300

Short name: SC 300

Movement: Head - Brightness Master Dimmer

DMX channel order				
1: Cyan	2:	Magenta	3:	Yellow
4: Shutter	5:	Pan	6:	Tilt
7: Dimmer	8:	Frost	9:	Pan fine
10: Tilt fine				

Scancommander _

Scan type: STAGE COLOR 575

Short name: SC 575

Movement: Head - Brightness Master Dimmer

DMX channel order				
1: Cyan	2:	Magenta	3:	Yellow
4: Shutter	5:	Pan	6:	Tilt
7: Color1	8:	Prisma		Frost
10: Color2(filter)		: Dimmer	12	: Special : Tilt fine
Control	13	: Pan fine	14	: Tilt fine

Scan type: STAGE COLOR 1000

Short name: SC1000

Movement: Head - Brightness Master on Dimmer

DMX channel order						
1: Cyan 4: Shutter	2:	Magenta	3:	Yellow		
4: Shutter	5:	Pan	6:	Tilt		
7: Color1	8:	Frost	9:	Dimmer		
10: Pan fine	11	: Tilt fine				

Scan type: STAGE COLOR 1200

Short name: SC1200

Movement: Head - Brightness Master on Dimmer

DMX channel order		
1: Cyan	2: Magenta	3: Yellow
1: Cyan 4: Shutter	5: Pan	6: Tilt
7: Color1	8: Frost	9: Frost
10: Color2(filter)	11: Dimmer	12:
Special(control)	13: Pan fine	14: Tilt fine
1 ()		

Scan type: STAGE COLOR SV 1200

Short name: SC12SV

Movement: Head - Brightness Master on Dimmer

DMX	channel	order
-----	---------	-------

1: Cyan	2: Magenta	3: Yellow
4: Shutter	5: Pan	6: Tilt
7: Color1	8: Frost	9: Frost
10: Color2(filter)	11: Dimmer	12:
Special(control)	13: Pan fine	14: Tilt fine

Scan type: GOLDEN SPOT 13CH.

Short name: GO SPO

Movement: Head - Brightness Master on Shutter (Dimmer) DMX channel order

1: Iris	2: Color 1	3: Color 2
4: Shutter	5: Pan	6: Tilt
7: Gobo 1	8: Rotation 1 (Go	
9: Gobo 2	10: Focus	11: Pan fine
12: Tilt fine	13: Rotation 2 (Go	bo 1 fine)

Scan type: GOLDEN COLOR 1200

Short name: GO COL

Movement: Head - Brightness Master on Shutter (Dimmer) DMX channel order 2: Magenta 3: Yellow 1: Cyan

4:	Shutter	5: Pan	6: Tilt
7:	Color 1=Warm	Filter(amber)	8: Frost
9:	Pan fine	10: Tilt fine	

Scan type: STAGE ZOOM

Short name: S ZOOM

Movement: Head - Brightness Master on Shutter (Dimmer) DMX channel order Color Frost 1: Iris 2. 3: Shutter 4: 5. Pan 6: Tilt Prism Zoom Focus 7: 8: 9 11: Gobo 2 10: Prism-Rot.3 12: Gobo 1

13: Gobo-Rot. 1 15: Magenta 14: Cvan

16: Yellow 17: Special(Lamp) 18: Pan fine 19: Tilt fine

Scan type: STAGE ZOOM SV 1200

Short name: S ZOSV

Movement: Head - Brightness Master on Shutter (Dimmer) DMX channel order

1:	Iris	2:	Color	3:	Frost
4:	Shutter	5:	Pan	6:	Tilt
7:	Zoom	8:	Focus	9:	Prism
10:	Prism-Rot.3	11:	Gobo 2	12:	Gobo 1
13:	Gobo-Rot. 1	14:	Cyan	15:	Magenta
16:	Yellow	17:	Special (Lamp)	18:	Pan fine
19:	Tilt fine	20:	Rotation 2 (Gob	o 1	fine)

Scan type: SHADOW Followspot

Short name: S	SHADOW
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No Movement	- Brightness Ma	aster on Dimmer	
DMX channel ord	er		
1: Iris 4: Color Temp.=	2: Color Special	3: Dimmer	

Scan type: TIGERSCAN

Short name: TIGER

Movement: Mirror	- Br	ightness	Master on	Shutter
DMX channel order				
1: Color	2:	Shutter	3:	Gobo
4: Rotation	5:	Pan	6	Tilt

Tigerscans updated to 4.5 or higher version can be initialized as GOLDEN Scan 2 (Shutter). Gobo Rotation is then controlled via the Iris Channel.

Scan type: PINSCAN

Short name: PIN Movement: Head - Brightness Master on Dimmer

DMX channel order 1: Dimmer 2: Pan 3: Tilt Scan type: BAZUKA

Short name: BAZUKA

Movement: Mirror - Brightness Master on Iris DMX channel order

1: Color 1 4: Tilt 2 Shutter 3: Pan 5: 6: Focus Iris

Scan type: POLYCOLOR

Short name: POLY C No movement - Brightness Master on Dimmer DMX channel order Dimmer Cyan 2 Focus 3. Shutter Yellow 1.

6:

5: 4: Magenta

Scan type: TIGER M.R.G.

Short name: T MRG

No Movement: - Brightness Master on Shutter DMX channel order

1: 4: Color 1 Rotation 1 2: Shutter 3: Gobo 1

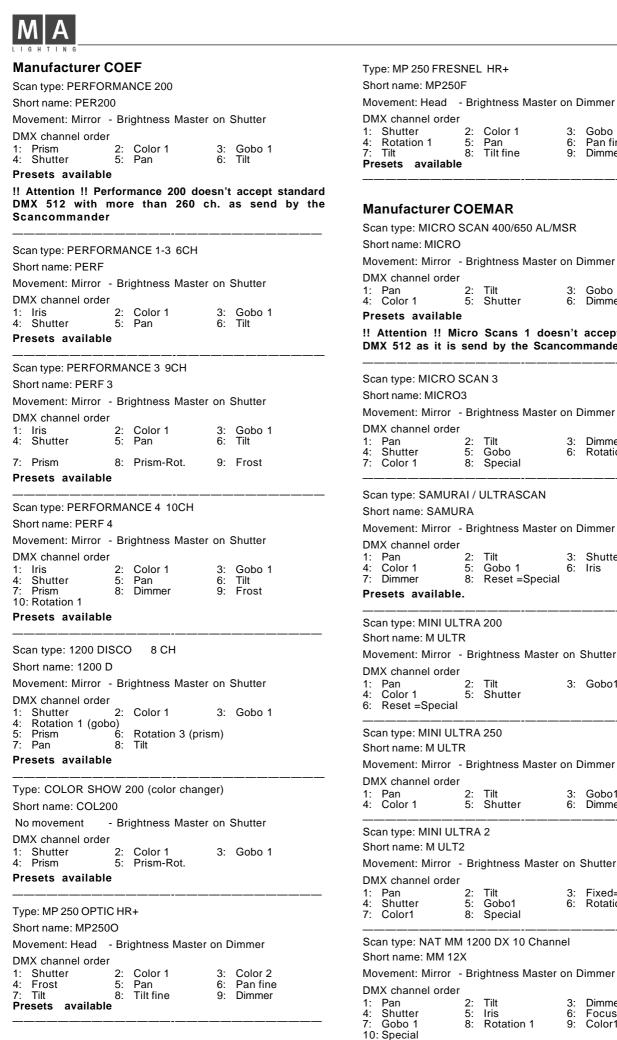
Scan type: TIGER CC/COLOUR CHANGER

Short name: T CC No movement: - Brightness Master on Shutter

DMX channel order				
1: Color 1	2:	Shutter	3:	Focus

Scan type: Combi Color Short name: COMBI

No movement - Brightness Master on Dimmer DMX channel order Color 1 2: Color 2 3: Gobo 1 Dimmer 4:



Scan type: MICRO SCAN 400/650 AL/MSR Movement: Mirror - Brightness Master on Dimmer Gobo 1 3: 6: Dimmer **!!** Attention **!!** Micro Scans 1 doesn't accept standard DMX 512 as it is send by the Scancommander Movement: Mirror - Brightness Master on Dimmer Dimmer 3: 6: Rotation Movement: Mirror - Brightness Master on Dimmer Shutter 6: Iris Reset =Special Movement: Mirror - Brightness Master on Shutter 3: Gobo1 Movement: Mirror - Brightness Master on Dimmer Gobo1 3: 6: Dimmer

Fixed=0

Rotation1

Dimmer

Focus

Color1

6:

3:

6:

9:

3

6

9:

Gobo 1

Dimmer

Pan fine

Scancommander _

Scan type: NAT MM 1200 PRISM 13 Ch. Short name: MM 12PR Movement: Mirror - Brightness Trigger on Shutter DMX channel order 2. Pan fine 1: Pan 3. Tilt Tilt fine 4: 7: Shutter 5 6: Iris Focus Rotation1 8: 9: Gobo1 10: Prism 11: Rotation3(prism) 12: Color1 13: Special Scan type: NAT MM 1200 ZOOM 20 Ch. Short name: MM 12ZO Movement: Mirror - Brightness Master on Dimmer DMX channel order 2: Pan fine 1: Pan 3: Tilt Tilt fine Dimmer 6: 4: 5 Shutter Focus 7: Iris 8: ٩· Zoom 10: Gobo1 11: Rotation1(Gobo) 12: Gobo2 13: Rotation2(Gobo) 14: Prism 15: Rotation3(prism) 18: Magenta 16: Color1 17: Cyan 19: Yellow 20: Special Scan type: NAT TM 1200 DX 12 Channel Short name: TM 12X Movement: Head - Brightness Trigger on Shutter DMX channel order 1: Pan Pan fine Tilt 4: Tilt fine 5: Speed1=Mode 6: Shutter Focus 7. Iris 8 9: Gobo1 10: Rotation1(gobo) 11: Color1 12: Special Scan type: NAT TM 1200 DXP 14 Channel Short name: TMDXPR Movement: Head - Brightness Trigger on Shutter DMX channel order 1: Pan 2 Pan Fine Tilt Speed 1=Mode 6: Shutter 4: Tilt Fine 5: 7: Focus Iris 8: 10: Rotation1(gobo) Gobo1 9: 11: Prism 12: Rotation3(prism) 13: Color1 14: Special Scan type: NAT TM 1200/4000 20Ch. Short name: TM 12 Movement: Head - Brightness Master on Dimmer DMX channel order 1: Pan 2: Pan fine 3: Tilt Tilt fine 6: Dimmer 4: 5 Speed1=Mode 7: Iris Focus Shutter 8: 9. 10: Gobo1 12: Gobo2 11: Rotation1(gobo) 13: Rotation2(gobo) 15: Rotation3(prism) 14: Prism 16: Color1 17: Cyan 18: Magenta 20: Special 19: Yellow Scan type: NAT TM 2500 21 Ch. Short name: TM 25 Movement: Head - Brightness Master on Dimmer DMX channel order 1: Pan Pan fine 3: Tilt Tilt fine 5: Speed1=Mode 6: 4: Dimmer 7: Shutter 8: Iris 9: Focus 10: Frost 11: Gobo1 12: Rotation1(gobo) 14: Rotation2(gobo) 13: Gobo2 15: Prism 17: Color1 16: Rotation3(prism) 18: Cyan 20: Yellow 19: Magenta 21: Special

Scan type: CF 1200 HARD EDGE Short name: CF12HE Movement: Head - Brightness Master on Dimmer DMX channel order Pan Tilt fine 2 Pan fine 3: Tilt 1: 5: Dimmer 6: Shutter 4: 7: Zoom Focus Iris 8: 9: 10: Gobo 1 11: Rotation 1(Gobo 1) 12: Rotation 2 (Position Gobo 1) 13: Gobo 2 15: Rotation 3 (Prisma) 17: Cyan 18 20: Special 14: Prisma 16: Color 1 19: Yellow 18: Magenta Scan type: CF 1200 SPOT Short name: CF1200 Movement: Head - Brightness Master on Dimmer DMX channel order Pan Tilt 1: 2 Pan fine 3: Shutter Color1 5: Tilt fine 4: Dimmer 6: Iris 7: 8: Color 2 (filter) 9: 10: Cyan 11: Magenta 12: Yellow 13: Special Scan type: PC 1000 Short name: PC1000 Movement: Mirror - Brightness Master on Dimmer DMX channel order Dimmer 2 Iris Zoom 1: Focus 5: Frost 6: Cyan 4: 7: Magenta 8: Yellow Scan type: DUETTO Short name: DUETTO Movement: 2 Mirror - Brightness Trigger on Shutter DMX channel order Pan=Mirror1 2 Tilt=Mirror2 3: Color1 Color2 5: Shutter 6: Special 4: Scan type: PCHMI Short name: PCHMI - Brightness Trigger on Dimmer No Movement DMX channel order 1: Dimmer 2 Iris 3: Zoom 5 4: Focus Frost 6: Cyan 7: Magenta 8: Yellow 9: Special Scan type: CF 7 ZOOM WASH Short name: CF7 ZW Movement: Head - Brightness Master on Dimmer DMX channel order Pan 1: 2 Tilt Tilt fine 4: Pan fine 5: Dimmer 6: Shutter Focus 7: 8: Speed 1 (Correction1) 10: Cyan ٩· Color 1 11: Magenta 12: Yellow 13: Special Presets available Scan type: CF 7 HARD EDGE Short name: CF7 HE Movement: Head - Brightness Master on Dimmer DMX channel order Pan 2 Tilt Tilt fine 1: 3: 4: Pan fine 5: Dimmer 6: Shutter 7: 8: 9: Focus Iris Zoom 10: Gobo 1 11: Rotation 1 13: Gobo 2 16: Frost (Lens) 12: Rotation 2 (Gobo 1 fine) 14: Prisma 15: Pr. Rotation 17: Cyan 18: Magenta 19: Yellow 20: Special

Presets available



Manufacturer DHA

Scan type: DIGITAL BEAMLIGHT

Short name: DIBEAM

Movement: Head - Brightness Master on Dimmer

DMX channel order								
1:	Dimmer	2:	Pan coarse	3:	Pan fine			
4:	Tilt coarse	5:	Tilt fine	6:	Color			
7:	Scroller test ind	licat	ion=Speed 1					
8:	Focus	9:	Fans=Speed 2	10	:			
Co	ntrol=Special							

Manufacturer EASYLIGHT Scan type: TWIST HTI 300 DMX Short name: TWIST Movement: Mirror - Brightness Master on Gobo									
DMX channel order 1: Pan 2: Tilt 3: Color 4: Gobo									
Scan type: EASYLIGHT SCAN 3 Short name: EASY 3 Movement: Mirror - Brightness Master on Shutter									
DMX channel order 1: Tilt 2: Pan 3: Gobo 1 4: Iris 5: Shutter 6: Color 1									
Scan type: EASYLIGHT SCAN 3D2 Short name: EASY32 Movement: Mirror - Brightness Master on Shutter DMX channel order									
1: Tilt 2: Pan 3: Gobo 1 4: Iris 5: Shutter 6: Color 1 7: Prisma									
Scan type: EASYLIGHT RAINBOW Short name: EASYRB No Movement - Brightness Master on Gobo DMX channel order 1: Color 1 2: Gobo 1									
Scan type: EASYLIGHT COLORE LC Short name: EASYCL No Movement - Brightness Master on Shutter DMX channel order 1: Shutter 2: Color 1									
Scan type: EASYLIGHT COLORE 2 Short name: EASYC2 No Movemen - Brightness Master on Shutter DMX channel order 1: Shutter 2: Color 1 3: Prisma 4: Gobo 1									
Manufacturer FAL Scan type: FAL 2000 Short name: F2000 Movement: Mirror - Brightness Master on Shutter DMX channel order 1: Color 1 2: Gobo 1 3: Rotation 1 4: Shutter 5: Pan 6: Tilt 7: Prisma									

Scan type: FAL 2000 XL/XLD

Short name: F2000X

Movement: Mirror - Brightness Master on Shutter DMX channel order

	A channel order				
1:	Iris	2:	Color 1	3:	Zoom
4:	Shutter	5:	Pan	6:	Tilt
7:	Focus	8:	Gobo 1	9:	Rotation 1
10:	Prisma	11:	: PrRotation		

Scan type: FAL 2000 XLDX

Short name: F2000X

Movement: Mirror - Brightness Master on Shutter

DMX channel order		
1: Iris	2: Color 1	3: Zoom
4: Shutter	5: Pan	6: Tilt
7: Focus	8: Gobo 1	9: Rotation 1
10: Prisma	11: PrRotation	12: Cyan
13: Magenta	14: Yellow	,

Scan type: ROULETTE 575/1200

Short name: ROULET

Movement: Mirror - Brightness Master on Shutter DMX channel order

	A channel order				
1:	Color 1	2:	Gobo 1	3:	Rotation 1
4:	Shutter	5:	Pan	6:	Tilt
7:	Prisma	8:	Color 2		

Scan type: PROSCAN II HR

Short name: PROSC2

Movement: Mirror - Brightness Master on Shutter DMX channel order

Diving on annual of ac		
1: Iris	2: Color 1	3: Gobo 1
Shutter	5: Pan	6: Tilt
7: Focus	8: Gobo 2	9: Rotation 2
10: Prisma	11: PrRotation	12: Frost
13: Pan fine	14: Tilt fine	

Presets available

Scan type: PROSCAN X HR

Short name: PROSCX

Movement: Mirror - Brightness Master on Shutter

DMX channel order				
1: Iris	2:	Color 1	3:	Gobo 1
4: Shutter	5:	Pan	6:	Tilt
7: Focus	8:	Gobo 2	9:	Rotation 2
10: Prisma	11	: PrRotation	12	: Pan fine
13: Tilt fine				

Presets available

Scan type: PROMO 2/3 HR Short name: PROMO2 Movement: Mirror - Brightness Master on Shutter DMX channel order 1: Focus 2: Rotation 2 3: Rotation 1 4: Shutter 5: Pan 6: Tilt Scan type: THREE SIXTY Short name: 360 Movement: Mirror - Brightness Master on Shutter DMX channel order 3: Color 2 6: Tilt 1: Color 1 2: Gobo 1 5: Pan 8: Tilt fine Shutter 4: 7: Pan fine

Scancommander _

Scan type: THREE SIXTY 2

Short name: 360 2

Movement: Mirror - Brightness Master on Shutter

DMX channel order	•			
1: Color 1	2:	Gobo 1	3:	Rotation 1
4: Shutter	5:	Pan	6:	Tilt
7: Prisma	8:	Gobo 2	9:	Pan fine
10: Tilt fine				

Manufacturer FLY

Scan type: FOS 3

Short name: FOS 3

Movement: Mirror - Brightness Master on Dimmer

DMX channel orde	r	
1: Zoom	2: Focus	3: Gobo 1
4: Shutter	5: Pan	6: Tilt
7: Dimmer	8: Prisma	9: AUX=Special
10: Cyan	11: Magenta	12: Yellow
Presets availabl	e	

Scan type: FOS 4

Short name: FOS 4

Movement: Mirror - Brightness Master on Dimmer

DMX channel order				
1: Iris	2: Rotation 1	3: Gobo 1		
4: Shutter	5: Pan	6: Tilt		
7: Dimmer	8: Prisma	9: AUX=Special		
10: Cyan	11: Magenta	12: Yellow		
Presets available				

Scan type: PALETTE

Short name: PALETT

No	movement	Bri	ghtness Master	on D	immer
DN	IX channel order				
1:	Dimmer	2:	Focus	3:	Cyan
4:	Magenta	5:	Yellow		-

Manufacturer FUTURELIGHT

Scan type: MIRACLE
Short name: MIRACL
No movement - No Brightness Master
DMX channel order 1: Color 1 2: Rotation 1 3: Gobo 1 4: Gobo 2
Scan type: CC-200
Short name: CC-200
No movement - Brightness Master on Dimmer
DMX channel order 1: Color 1 2: Color 2 3: Special 4: Dimmer
Scan type: SC-330/370/ H-250
Short name: SC-H
Movement: Mirror - Brightness Master on Dimmer
DMX channel order 1: Pan 2: Tilt 3: Color 1 4: Gobo 1
Scan type: PROMOTIOM SCAN
Short name: PROMOT
Movement: Mirror - Brightness Master on Shutter
DMX channel order1: Pan2: Tilt4: Gobo 15: Rotation 16: Shutter7: Focus8: Zoom9: Speed 110: Pan fine11: Tilt finePresets available.

Scan type: GENESIS	6		
Short name: GENES			
Movement: Mirror -	Brightness	Master on	Shutter
DMX channel order			
1: Pan	2: Tilt	3:	Color 1
4: Gobo1 7: Shutter	5: Gobo 2 8: Prisma	6:	Iris
Scan type: VOYAGI	ER		
Short name: VOYA	G		
Movement: Mirror -	Brightness	Master on	Shutter
DMX channel order	2.19.110000		
1: Pan	2: Tilt	3:	Color 1
4: Gobo 1	5: Rotation	n 1 6:	Iris
7: Shutter	8: Prisma		
Presets available			
Scan type: DUKE 12	200		
Short name: DUKE 1			
		Mastanaa	Chuitte a
Movement: Mirror -	Brightness	master on	Snutter
DMX channel order 1: Pan	2: Tilt	о.	Color 1
4: Gobo1	5: Rotation	3: 1 6:	
7: Shutter	8: Prisma		
Presets available			
Scan type: ADVERT	SCAN HR		
Short name: ADVER	т		
Movement: Mirror -	No Brightne	ess Master	
DMX channel order			
1: Pan	2: Tilt	3:	(not used)
4: Gobo 1 7: Focus	5: Rotation 8: (not use		Special Speed 1
10: Pan fine	11: Tilt fine		
Scan type: SC-250			
Scan type: SC-250 Short name: SC-250)		
••		Master on	Shutter
Short name: SC-250 Movement: Mirror - DMX channel order	Brightness		
Short name: SC-250 Movement: Mirror - DMX channel order 1: Pan	Brightness 2: Tilt	3:	Color 1
Short name: SC-250 Movement: Mirror - DMX channel order	Brightness	3:	Color 1
Short name: SC-250 Movement: Mirror - DMX channel order 1: Pan	Brightness 2: Tilt 5: Rotation	3:	Color 1
Short name: SC-250 Movement: Mirror - DMX channel order 1: Pan 4: Gobo 1 	Brightness 2: Tilt 5: Rotation 570 HR	3:	Color 1
Short name: SC-250 Movement: Mirror - DMX channel order 1: Pan 4: Gobo 1 	Brightness 2: Tilt 5: Rotation	3: n 1 6:	Color 1 Shutter
Short name: SC-250 Movement: Mirror - DMX channel order 1: Pan 4: Gobo 1 Scan type: SC-530/4 Short name: SC-530 Movement: Mirror -	Brightness 2: Tilt 5: Rotation	3: n 1 6:	Color 1 Shutter
Short name: SC-250 Movement: Mirror - DMX channel order 1: Pan 4: Gobo 1 Scan type: SC-530/4 Short name: SC-530 Movement: Mirror - DMX channel order	Brightness 2: Tilt 5: Rotation 570 HR) Brightness	3: 1 6: Master on	Color 1 Shutter
Short name: SC-250 Movement: Mirror - DMX channel order 1: Pan 4: Gobo 1 	Brightness 2: Tilt 5: Rotation 570 HR b Brightness 2: Tilt 5: Spped	3: 1 6: Master on 3: 6:	Color 1 Shutter Dimmer Pan fine Special
Short name: SC-250 Movement: Mirror - DMX channel order 1: Pan 4: Gobo 1 Scan type: SC-530/9 Short name: SC-530/9 Short name: SC-530 Movement: Mirror - DMX channel order 1: Pan 4: Tilt fine 7: Color 1	Brightness 2: Tilt 5: Rotation 570 HR Brightness 2: Tilt	3: 1 6: Master on 3:	Color 1 Shutter Dimmer Pan fine
Short name: SC-250 Movement: Mirror - DMX channel order 1: Pan 4: Gobo 1 	Brightness 2: Tilt 5: Rotation 570 HR b Brightness 2: Tilt 5: Spped	3: 1 6: Master on 3: 6:	Color 1 Shutter Dimmer Pan fine Special
Short name: SC-250 Movement: Mirror - DMX channel order 1: Pan 4: Gobo 1 Scan type: SC-530/9 Short name: SC-530/9 Short name: SC-530 Movement: Mirror - DMX channel order 1: Pan 4: Tilt fine 7: Color 1	Brightness 2: Tilt 5: Rotation 570 HR Brightness 2: Tilt 5: Spped 7 8: Gobo 1	3: 1 6: Master on 3: 6:	Color 1 Shutter Dimmer Pan fine Special
Short name: SC-250 Movement: Mirror - DMX channel order 1: Pan 4: Gobo 1 Scan type: SC-530/4 Short name: SC-530 Movement: Mirror - DMX channel order 1: Pan 4: Tilt fine 7: Color 1 10: PrRotation	Brightness 2: Tilt 5: Rotation 570 HR b Brightness 2: Tilt 5: Spped 7 8: Gobo 1 HR	3: 1 6: Master on 3: 6:	Color 1 Shutter Dimmer Pan fine Special
Short name: SC-250 Movement: Mirror - DMX channel order 1: Pan 4: Gobo 1 	Brightness 2: Tilt 5: Rotation 570 HR 9 Brightness 2: Tilt 5: Spped 8: Gobo 1 HR	3: 1 6: Master on 3: 6: 9:	Color 1 Shutter Dimmer Pan fine Special Dimmer
Short name: SC-250 Movement: Mirror - DMX channel order 1: Pan 4: Gobo 1 Scan type: SC-530/4 Short name: SC-530/4 Short name: SC-530/4 Movement: Mirror - DMX channel order 1: Pan 4: Tilt fine 7: Color 1 10: PrRotation Scan type: SC-740 1 Short name: SC-740 Movement: Mirror -	Brightness 2: Tilt 5: Rotation 570 HR 9 Brightness 2: Tilt 5: Spped 8: Gobo 1 HR	3: 1 6: Master on 3: 6: 9:	Color 1 Shutter Dimmer Pan fine Special Dimmer
Short name: SC-250 Movement: Mirror - DMX channel order 1: Pan 4: Gobo 1 	Brightness 2: Tilt 5: Rotation 570 HR 9 Brightness 2: Tilt 5: Spped 8: Gobo 1 HR 9 Brightness	3: 1 6: Master on 3: 6: 9: Master on	Color 1 Shutter Dimmer Pan fine Special Dimmer Dimmer
Short name: SC-250 Movement: Mirror - DMX channel order 1: Pan 4: Gobo 1 	Brightness 2: Tilt 5: Rotation 570 HR Brightness 2: Tilt 5: Spped 4: Gobo 1 HR Brightness 2: Tilt 5: Spped	3: 1 6: Master on 3: 6: 9: Master on 3: 6: 9:	Color 1 Shutter Dimmer Pan fine Special Dimmer Dimmer Pan fine Special
Short name: SC-250 Movement: Mirror - DMX channel order 1: Pan 4: Gobo 1 Scan type: SC-530/4 Short name: SC-530 Movement: Mirror - DMX channel order 1: Pan 4: Tilt fine 7: Color 1 DNX channel order Scan type: SC-740 Short name: SC-740 Short	Brightness 2: Tilt 5: Rotation 570 HR 570 HR Brightness 2: Tilt 5: Spped 7 8: Gobo 1 HR Brightness 2: Tilt 5: Spped 7 8: Gobo 2	3: 1 6: Master on 3: 6: 9: Master on 3: 6: 9: 9:	Color 1 Shutter Dimmer Pan fine Special Dimmer Dimmer Pan fine Special Dimmer
Short name: SC-250 Movement: Mirror - DMX channel order 1: Pan 4: Gobo 1 	Brightness 2: Tilt 5: Rotation 570 HR Brightness 2: Tilt 5: Spped 4: Gobo 1 HR Brightness 2: Tilt 5: Spped	3: 1 6: Master on 3: 6: 9: Master on 3: 6: 9: 9:	Color 1 Shutter Dimmer Pan fine Special Dimmer Dimmer Pan fine Special
Short name: SC-250 Movement: Mirror - DMX channel order 1: Pan 4: Gobo 1 	Brightness 2: Tilt 5: Rotation 570 HR 570 HR Brightness 2: Tilt 5: Spped 7 8: Gobo 1 HR Brightness 2: Tilt 5: Spped 7 8: Gobo 2	3: 1 6: Master on 3: 6: 9: Master on 3: 6: 9: 9:	Color 1 Shutter Dimmer Pan fine Special Dimmer Dimmer Pan fine Special Dimmer
Short name: SC-250 Movement: Mirror - DMX channel order 1: Pan 4: Gobo 1 	Brightness 2: Tilt 5: Rotation 570 HR 9 Brightness 2: Tilt 5: Spped 7 8: Gobo 1 HR 9 Brightness 2: Tilt 5: Spped 7 8: Gobo 2 11: Gobo 1	3: 1 6: Master on 3: 6: 9: Master on 3: 6: 9: 9:	Color 1 Shutter Dimmer Pan fine Special Dimmer Dimmer Pan fine Special Dimmer
Short name: SC-250 Movement: Mirror - DMX channel order 1: Pan 4: Gobo 1 	Brightness 2: Tilt 5: Rotation 570 HR 570 HR Brightness 2: Tilt 5: Spped 7 8: Gobo 1 HR Brightness 2: Tilt 5: Spped 7 8: Gobo 2 11: Gobo 1 HR	3: 1 6: Master on 3: 6: 9: Master on 3: 6: 9: 9:	Color 1 Shutter Dimmer Pan fine Special Dimmer Dimmer Pan fine Special Dimmer
Short name: SC-250 Movement: Mirror - DMX channel order 1: Pan 4: Gobo 1 Scan type: SC-530/4 Short name: SC-530/4 Movement: Mirror - DMX channel order 1: Pan 4: Tilt fine 7: Color 1 10: PrRotation 	Brightness 2: Tilt 5: Rotation 570 HR 570 HR Brightness 2: Tilt 5: Spped 7 8: Gobo 1 HR Drightness 2: Tilt 5: Spped 7 8: Gobo 2 11: Gobo 1 HR	3: 1 6: Master on 3: 6: 9: Master on 3: 6: 9: 12	Color 1 Shutter Dimmer Pan fine Special Dimmer Dimmer Pan fine Special Dimmer Rotation 1
Short name: SC-250 Movement: Mirror - DMX channel order 1: Pan 4: Gobo 1 Scan type: SC-530/4 Short name: SC-530 Movement: Mirror - DMX channel order 1: Pan 4: Tilt fine 7: Color 1 10: PrRotation Scan type: SC-740 Movement: Mirror - DMX channel order 1: Pan 4: Tilt fine 7: Color 1 10: (no used) 13: Iris Scan type: SC-780 Short name: SC-780	Brightness 2: Tilt 5: Rotation 570 HR 570 HR Brightness 2: Tilt 5: Spped 7 8: Gobo 1 HR Drightness 2: Tilt 5: Spped 7 8: Gobo 2 11: Gobo 1 HR	3: 1 6: Master on 3: 6: 9: Master on 3: 6: 9: 12	Color 1 Shutter Dimmer Pan fine Special Dimmer Dimmer Pan fine Special Dimmer Rotation 1
Short name: SC-250 Movement: Mirror - DMX channel order 1: Pan 4: Gobo 1 Scan type: SC-530/4 Short name: SC-530 Movement: Mirror - DMX channel order 1: Pan 4: Tilt fine 7: Color 1 10: PrRotation Scan type: SC-740 I Short name: SC-780 I Sh	Brightness 2: Tilt 5: Rotation 570 HR Brightness 2: Tilt 5: Spped 7 8: Gobo 1 HR Brightness 2: Tilt 5: Spped 7 8: Gobo 2 11: Gobo 1 HR Brightness 2: Tilt 5: Spped 7 8: Gobo 2 11: Gobo 1 HR 2: Tilt 5: Spped 7 8: Gobo 2 11: Gobo 1 HR 1: Gobo 1 HR 1: Gobo 1 HR 1: Gobo 1 HR	3: 1 6: Master on 3: 6: 9: 9: 12 Master on 3: 12 Master on 3: 3: 4: 5: 9: 12 Master on 3: 5: 9: 12 Master on 3: 6: 9: 9: 12 Master on 3: 6: 9: 9: 12 Master on 3: 6: 9: 9: 12 12 12 12 12 12 12 12 12 12	Color 1 Shutter Dimmer Pan fine Special Dimmer Pan fine Special Dimmer Rotation 1 Dimmer Pan fine
Short name: SC-250 Movement: Mirror - DMX channel order 1: Pan 4: Gobo 1 Scan type: SC-530/4 Short name: SC-530/4 Short name: SC-530/4 Movement: Mirror - DMX channel order 1: Pan 4: Tilt fine 7: Color 1 10: PrRotation 	Brightness 2: Tilt 5: Rotation 570 HR 5: Spped 7 8: Gobo 1 HR 9 Brightness 2: Tilt 5: Spped 7 8: Gobo 1 HR 9 Brightness 2: Tilt 5: Spped 7 8: Gobo 2 11: Gobo 1 HR 9 Brightness 2: Tilt 5: Spped 7 8: Gobo 2 11: Gobo 1 HR 9 8: Gobo 2 11: Gobo 1 HR 9 8: Gobo 2 11: Gobo 1 HR 9 8: Gobo 2 11: Gobo 1 HR 9 8: Gobo 2 11: Gobo 1 11:	3: 1 6: Master on 3: 6: 9: Master on 3: 6: 9: 12 Master on 3: 6: 9: 12	Color 1 Shutter Dimmer Pan fine Special Dimmer Pan fine Special Dimmer : Rotation 1 Dimmer Pan fine Special
Short name: SC-250 Movement: Mirror - DMX channel order 1: Pan 4: Gobo 1 Scan type: SC-530/4 Short name: SC-530 Movement: Mirror - DMX channel order 1: Pan 4: Tilt fine 7: Color 1 10: PrRotation Scan type: SC-740 I Short name: SC-780 I Sh	Brightness 2: Tilt 5: Rotation 570 HR Brightness 2: Tilt 5: Spped 7 8: Gobo 1 HR Brightness 2: Tilt 5: Spped 7 8: Gobo 2 11: Gobo 1 HR Brightness 2: Tilt 5: Spped 7 8: Gobo 2 11: Gobo 1 HR 2: Tilt 5: Spped 7 8: Gobo 2 11: Gobo 1 HR 1: Gobo 1 HR 1: Gobo 1 HR 1: Gobo 1 HR	3: 1 6: Master on 3: 6: 9: 12 Master on 3: 12 Master on 3: 12 12 12 12	Color 1 Shutter Dimmer Pan fine Special Dimmer Pan fine Special Dimmer Rotation 1 Dimmer Pan fine

16: Dimmer



Scan type: SC-940/980 HR

Short name: SC-940

Movement: Mirror - Brightness Master on Dimmer

DMX channel order

1: Pan	2: Tilt	3: Pan fine
Tilt fine	5: Spped 1	6: Special
7: Color 1	8: Color 2	9: Prisma
10: Gobo 2	11: Gobo 1	12: Rotation 1
13: Iris	14: Focus	15: Shutter
16: Dimmer		

Scan type: MH 640 WASHLIGHT

Short name: MH 640

Movement: Head - Brightness Master on Dimmer

14: (no used)

15: Shutter

DMX channel or	rder	
1: Pan	2: Tilt	3: Pan fine
Tilt fine	5: Speed 1	6: Special
7: Color 1	8: Cyan	9: Magenta
10: Yellow	11: Speed 2	12: Color 2

- 13: Prisma 16: Dimmer

Scan type: MH 660 SPOT HR

Short name: MH 660

Movement: Head - Brightness Master on Dimmer

DMX channel orde	er	
1: Pan	2: Tilt	3: Pan fine
Tilt fine	5: Speed 1	6: Special
7: Color 1	8: (no used)	9: Prisma
10: PrRotation	11: Gobo 1	12: Rotation 1
13: (no used)	14: Focus	15: Shutter
16: Dimmer		

Scan type: MH 840 WASHLIGHT

Short name: MH 840

Movement: Head - Brightness Master on Dimmer

DMX channel order

DIMA GHAIIIICI OIUC		
1: Pan	2: Tilt	3: Pan fine
4: Tilt fine	5: Speed 1	6: Special
7: Color 1	8: Cyan	9: Magenta
10: Yellow	11: Speed 2	12: Color 2
13: Prisma	14: Zoom	15: Shutter
16: Dimmer		

Scan type: MH 860 SPOT

Short name: MH 860

Movement: Head - Brightness Master on Dimmer

DMX channel order		
1: Pan	2: Tilt	3: Pan fine
Tilt fine	5: Speed 1	6: Special
7: Color 1	8: Color 2	9: Prisma
10: Gobo 1	11: Gobo 2	12: Rotation 1
13: Iris	14: Zoom	15: Shutter
16: Dimmer		

Manufacturer GENIUS

Scan type: OMEGA 2

Short name: OMEGA2

Movement: Head - Brightness Master on Dimmer

DMX channel order				
1: Special 4: Shutter	2:	Color 1	3:	Gobo 1
4: Shutter	5:	Pan	6:	Tilt
7: Dimmer	8:	Prisma	9:	Gobo 2
10: Rotation 2				

Manufacturer GLP

Scan type: MINI STAR TEC					
Short name: M STAR					
Movement: Mirror - Brightness Master on Shutter					
DMX channel order					
1: Pan	2: Tilt	3: Speed 1 6: Shutter			
4: Gobo 1	5: Rotation 1	6: Shutter			

Scan type: MIGHTY SCAN

Short name: MIGHTY

Movement: Mirror - Brightness Master on Shutter DMX channel order Speed 1 Shutter Tilt Pan 2: 3: Color 1 5: Gobo 1 6: 4: Scan type: MAX Short name: MAX Movement: Head - Brightness Trigger on Shutter DMX channel order

3:

6:

Speed1=Pan

Color1

Scan type: STARTEC 2000 EXT9

Short name: STAR X

Speed2=Tilt

Gobo1

1: Pan

4

7:

Movement: Mirror - Brightness Master on Shutter (Dimmer) DMX channel order

1: Pan 4: Gobo 1		Tilt Shutter		Color Special
7: Speed	8:	Rotation 1	9:	Iris
Presets availa	ble			

Tilt

Rotation1

Shutter

5:

8:

Scan type: STAR TEC 1200 12CH.

Short name: STAR12

Movement: Mirror - Brightness Master on Shutter

	A channel oluer				
1:	Pan	2:	Tilt	3:	Pan fine
4:	Tilt fine	5:	Color 1		Gobo 1
7:	Rotation 1	8:	Iris	9:	Prisma
10:	Shutter	11:	Focus	12:	Special
Sca	an type: JOY 300)			
Sho	ort name: JOY				

Movement: Mirror - Brightness Master on Dimmer

DM	X channel order				
1:	Pan	2:	Pan fine	3:	Tilt
4:	Tilt fine	5:	Color 1	6:	Gobo 1
7:	Shutter	8:	Dimmer	9:	Rotation 1
10:	Prisma	11:	Special		

Scan type:PATENT 575 1=FINE

Short name: PATENT

Movement: Head - Brightness Master on Shutter DMX channel order

1: Pan fine	2: Pan	3: Tilt fine
4: Tilt	5: Speed 1	6: Speed 2
7: Special	8: Color 1	9: Gobo 1
10: Shutter	11: Rotation 1	12: Iris
13: Focus		

Presets available

Scan type:PATENT 575 1=COARSE

Short name: PATENT

Movement: Head - Brightness Master on Shutter

DN	IX channel order				
1:	Pan	2:	Pan fine	3:	Tilt
4:	Tilt fine	5:	Speed 1	6:	Speed 2 Gobo 1
7:	Special	8:	Color 1	9:	Gobo 1
10:	Shutter	11:	Rotation 1	12:	Iris
13:	Focus				

Presets available

Scan type:PATENT 1200 17CH.

Short name: PATE12

Movement: Head - Brightness Master on Dimmer

DMX channel order				
1: Pan	2:	Pan fine	3:	Tilt
4: Tilt fine	5:	Speed 1	6:	Speed 2
7: Special	8:	Color 1	9:	Gobo 1
10: Shutter	11:	Rotation 1	12:	Iris
13: Focus	14:	Gobo 2	15:	Rotation 2
16: Prisma	17:	Dimmer		
Presets available				

Manufacturer GRIVEN

Scan type: CRUISER Short name: CRUISE

Movement: Mirror -Brightness Master on Focus

DMX channel order

1: Cyan	Magentat	3: Yellow
4: Prism	5: Color 1	6: Color 2
7: Pan	8: Tilt	9: Gobo 1
10: Focus	11: Zoom	

Manufacturer HIGH END

Scan type: TRACKSPOT

Short name: TRACK

Movement: Mirror - Brightness Master on Dimmer

DN	1X channe	l order			
1:	Pan	2:	Tilt	3:	Color 1
4:	Gobo 1	5:	Shutter	6:	Dimmer
7:	Speed1				

Presets available.

Scan type: TECHNOBEAM

Short name: Techno

Movement: Mirror - Brightness Master on Dimmer

DMX channel order	
1: Pan	2: Pan fine
3: Tilt	4: Tilt fine
5: Color 2 (Color Function 1)	
7: Gobo 2 (LithoFunction)	8: Gobo 1
9: Rot. 1 (gobo coarse)	10: Rot. 2(gobo fine) 12: Effect Ro t(Rot-prism)
11: Prism	
13: Focus	14: Shutter
15: Dimmer	16: Speed 1 (Mspeed)
17: Speed 2 (laser)	18: Special (control)

Presets available.

Scan type: TECHNOBEAM IRIS

Short name: TEC IR

Movement: Mirror - Brightness Master on Dimmer

-	
DMX channel order	
1: Pan	2: Pan fine
3: Tilt	4: Tilt fine
5: Color 2 (Color Function 1)	6: Color 1
7: Gobo 2 (LithoFunction)	8: Gobo 1
9: Rot. 1 (gobo coarse)	10: Iris
11: Prism	12: Effect Rot (Rot-prism)
13: Focus	14: Shutter
15: Dimmer	16: Speed 1 (Mspeed)
17: Speed 2 (laser)	18: Special (control)
B (11.1.1	

Presets available.

Scan type: INTELLABEAM 8 CH

Short name: I BEAM

Movement: Mirror - Brightness Master on Dimmer

DMX channel order	•			
1: Pan	2:	Tilt	3:	Color 1
4: Gobo 1	5:	Shutter	6:	Dimmer
7: Iris	8:	Speed		
Presets available	э.			

Scan type: INTELLABEAM 13 CH

Short name: I BEAM

Movement: Mirror - Brightness Master on Dimmer

DMX channel order				
1: Pan		Pan fine	•••	Tilt
4: Tilt fine		Color 1		Color 2
7: Gobo 1		Gobo 2		Shutter
10: Dimmer	11	: Iris	12:	Speed
13: Home=Special				
B 4 11 1 1				

Presets available.

Scan type: CYBERLIGHT CX MODE3

Short name: CYBERX

Movement: Mirror - Brightness Master on Dimmer DMX channel order

Presets available.	Set Cyberlight to	Mode 3.
13: Dimmer	14: Speed	15: Control=Special
10: Iris	11: Prism	12: Shutter
7: Gobo 2	8: Rotation 1	9: Focus
4: Tilt fine	5: Color 1	6: Gobo 1
1: Pan	2: Pan fine	3: Tilt
Binn on annor or aon		

Scan type: CYBERLIGHT MODE2 20

Short name: CYBER

Movement: Mirror - Brightness Master on Dimmer DMX channel order

1: Pan	2: Pan fine	3: Tilt
4: Tilt fine 7: Magenta	5: Color 1 8: Yellow	6: Cyan 9: Gobo 1
10: Gobo 2	11: Rotation 1	12: Zoom
13: Focus	14: Iris	15: Prism
16: Frost	17: Shutter	18: Dimmer
19: Speed 1	20: Contol=Special	
Presets available.	Set Cyberlight to	Mode 2.

See special issue at the end of the manual.

Scan type: STUDIO COLOR

Short name: ST COL

Movement: Head - Brightness Master on Dimmer DMX channel order

1: Pan 4: Tilt fine		Pan fine Color-function		
6: Color 1 9: Yellow	7:	Cyan	8:	Magenta Frost
12: Shutter	13:	Dimmer	14:	Speed
15: Control=Special	16:	Checksum=0	(fix)	

Presets available.

Scan type: STUDIO COLOR 250

Short name: ST CO2

Movement: Head	 Brightness Maste 	er on Dimmer			
DMX channel order	r				
1: Pan	2: Pan fine	3: Tilt			
Tilt fine	5: Color-function	า=Color 2			
6: Cyan	7: Magenta	8: Yellow			
9: Zoom	10: Focus	11: Shutter			
12: Dimmer	13: Speed 1	14: Speed 2			
15: Control=Specia	1				
Presets available.					

Scan type: STUDIO SPOT 5A

Short name: ST SPO

Movement: Head - Brightness Master on Dimmer

	Englineee maeter				
DMX channel order					
1: Pan	2: Pan fine	3: Tilt			
4: Tilt fine1	5: Cyan	6: Color1			
	8: Color 2	9: Yellow			
10: Gobo1	11: Rotation Gob 1				
13: Prism	14: Gobo 2	15: Rotation Gob 2			
16: Rotation Prism		18: Focus			
19: Iris	20:Shutter	21: Dimmer			
22: Speed 1	23: Speed 2	24: Special			
Presets available.					

Scan type: STUDIO	O SPOT CMY		Manufacturer		
Short name: ST CI					
Movement: Head	- Brightness Master	on Dimmer		SCAN SYSTEM 1	Protocol: Anal
DMX channel orde	-		Short name: VS		
1: Pan	2: Pan fine	3: Tilt		r - No Brightness N	laster
4: Tilt fine1 7: Magenta	5: Color 1 8: Yellow	6: Cyan 9: Color 2	DMX channel ord 1: Pan	ler 2: Tilt	3: Gobo 1
10: Gobo1	11: Rotation Gob 1	12: Zoom	4: Color 1	2. 111	5. G000 T
I3: Prism I6: Ro.Prism = Go		15: Rotation Gob 2 17: Frost			
	19: Iris	20:Shutter		SCAN 3 SPEC+ 6C	
21: Dimmer 24: Special	22: Speed 1	23: Speed 2	Short name: VS3		
Presets availabl	e.			r - Brightness Maste	er on Dimmer
			DMX channel ord 1: Pan	ler 2: Tilt	3: Gobo 1
Scan type: STUDI	D BEAM PC V1.0		4: Color 1	5: Dimmer	6: Rotation 1
Short name: ST BE	ĒA				
Novement: Head	- Brightness Master	on Dimmer		SCAN 3 SPECIALP	
DMX channel orde			Short name: VS3		
I: Pan 4: Tilt fine1	2: Pan fine 5: Color 1	3: Tilt 6: Cyan		r - Brightness Maste	er on Dimmer
: Magenta	8: Yellow	9: Rotation 1	DMX channel ord		0. 0.1.1
0: Zoom 3: Dimmer	11: Frost 14: Speed 1	12: Shutter 15: Speed 2	1: Pan 4: Color 1	2: Tilt 5: Dimmer	3: Gobo 1 6: Speed1
16: Special		10. 0p000 2	7: Rotation 1	8: Prism	
resets availabl	e.		Scan type: VARY	SCAN 111 700	
			Short name: VS3		
can type: STUDI					er on Dimmer /Shutter
hort name: ST SF		na Dimana	DMX channel ord	•	
	- Brightness Master	on Dimmer	1: Pan	2: Tilt	3: Gobo 1
MX channel orde : Pan	r 2: Pan fine	3: Tilt	4: Color 1	5: Shutter	6: Iris
Tilt fine1	5: Color 2	6: Color 1	7: Dimmer 10: Prism	8: Focus 11: Magenta	9: Rotation 1 12: Yellow
Gobo 2 D: Prisma	8: Gobo 1 11: PrRotation	9: Rotation 1 12: Focus	13: Cyan		
3: Iris	14: Shutter	15: Dimmer	Presets availab	ble	
Speed 1	•	18: Special			
esets availabl	e		Scan type: VARY Short name: VS 4		
Scan type: TECHN	OPRO 12CH.			 Brightness Mast 	er on Shutter
Short name: TECH			DMX channel ord	•	er off Shutter
No Movement	- Brightness Master	on Dimmer	1: Pan	2: Tilt	3: Gobo 1
DMX channel orde	•	-	4: Color 1	5: Shutter	6: Iris
: Rotation1(cold	r1)	2:Color1	7: Rotation 1 Presets availat	8: Prisma	
Rotation2(colo Prism	r2) 6: Rotation3(prisn	4: Color2	Fresets availab		
Focus	8: Shutter	9: Dimmer	Scan type: VARY	SCAN IV 1200 EV	/
0: Speed1(motor) 11: Speed2(laser)	12: Special	Short name: VS 4		
can type: TRACK	SPOT MAINLIGHT			r - Brightness Mast	er on Shutter
short name: TRAC			DMX channel ord	•	
lo Movement	- Brightness Master	on Dimmer	1: Pan	2: Tilt	3: Gobo 1
	•		4: Color 1 7: Rotation 1	5: Shutter 8: Prisma	6: Iris 9: Gobo 2
MX channel orde : Color 1	r 2: Gobo 1	3: Shutter	10: Pan fine	8: Prisma 11: Tilt fine	9. GODO 2
Dimmer	5: Speed 1		Presets availab		
can type: TECHN	ORAY HR 14 CH.				
Short name: TECH			Scan type: VARY		
lo Movement	- Brightness Master	on Dimmer	Short name: VS5		or on Chutter
MX channel orde	•			r - Brightness Mast	er on Snutter
: Color 2	2: Color 1	3: Gobo 2	DMX channel ord 1: Pan	ler 2: Pan fine	3: Tilt
l: Gobo 1	5: Rotation 1	6: Rotation 2	4: Tilt fine	5: Color 2	6: Color 1
': Prisma 0: Shutter	8: PrRotation 11: Dimmer	9: Focus 12: Speed 1	7: Shutter 10: Zoom	8: Focus	9: Iris 12: Gobo 1
3: Speed 2	14: Special		13: Rotation 2	11: Speed 1 14: Gobo 2	12: Gobo 1 15: Gobo 2
			16: Rotation 1	17: Prism	18: Rotation3(prism
can type: DATAF			19: Frost 22: Magenta	20: Cyan	21: Yellow
nort name: DATA		on Dimmor			
o Movement	- Brightness Master				
MX channel orde					

Protocol: Analogue

1: Dimmer

2: Prisma

3: Shutter

Scancommander.

Scan type: VARYSCAN 6 SPOT

Short name: VS6 SP

Movement: Head - Brightness Master on Dimmer

DMX channel order	•		
1: Pan	2:	Tilt	3: Gobo 1
4: Color 1	5:	Dimmer	6: Iris
7: Rotation 1	8:	Prisma	9: Focus
10: Shutter	11	: Pan fine	12: Tilt fine

Scan type: VARYSCAN 6 WASH

Short name: VS6 WA

Movement: Head- Brightness Master on DimmerDMX channel order1: Pan2: Tilt3: Cyan

4: Magenta	5: Yellow	6: Iris
7: Dimmer	8: Shutter	9: Special
10: (no used)	11: Pan fine	12: Tilt fine

Scan type: VARYCOLOR 2000

Short name: VCOLOR

Movement: Mirror - Brightness Master on Shutter DMX channel order

1:	Special	2:	Fixed=0	3:	Gobo 1
4:	Color 1	5:	Shutter	6:	Prism

Manufacturer LAMPO

Scan type: SINTESI+SUPER

Short name: SINTES

Movement: Mirror - Brightness Master on Iris

DMX channel or 1: Iris	2: Pan	3: Tilt				
4: Color 1	5: Gobo 1	6: Shutter				
Presets available						
Scan type: COLUMBUS						

Short name: COLUMB

Movement: Mirror - Brightness Master on Iris

DMX channel order		-		
1: Iris 4: Color 1 7: Rotation 1 10: Prism	5:	Pan Gobo 2 Focus	6:	Tilt Shutter Gobo 1

Manufacturer LICHT TECHNIK

Scan type: MOTOR YOKE 330,300

Short name: M YOKE

Movement: Head - Brightness Master on Dimmer

DMX channel order				
1: Pan	2:	Pan fine		Tilt
Tilt fine		Speed 1(Pan)	6:	Speed 2(Tilt) Color2=Speed
		Color 1		
10: Prism(Ventilato				Dimmer
12: Shutter(Speed) 15: Yellow=Flap2	13:	Cyan=Flap Rot.	14:	Magenta=Flap1
15: Yellow=Flap2	16:	: Gobo 1=Flap3	17:	: Gobo 2=Flap4

Manufacturer LITEBEAM

Scan type: SWING

Short name: SWING1

Movement: Mirror - Brightness Master on Dimmer

DN	IX channel order				
1:	Dimmer	2:	Color 1	3:	Gobo 1
4:	Shutter	5:	Pan	6:	Tilt

Movement: Mirror - Brightness Master on Dimmer DMX channel order Iris 2 Color 1 3: Gobo 1 1: 4: Shutter 5: Pan 6: Tilt Dimmer 8: Rotation 1 9: Focus 10: Color 2 11: Gobo 2 12: Rotation 2 Presets available. Scan type: CHANDRA I Short name: CHAN 1 Movement: Head - Brightness Master on Dimmer DMX channel order Color 1 1: Dimmer 2: 3: Gobo 1 Shutter 5: Pan 6: Tilt 4: 7: Rotation Scan type: CHANDRA II Short name: CHAN 2 Movement: Head - Brightness Master on Dimmer DMX channel order 1: Iris Color 1 3: Gobo 1 4: Shutter 5: Pan 6: Tilt Dimmer 8: G.Swing=Rot. 1 9: Focus 12: G.Rot=Rotation 2 10: Rotation 3 11: Gobo 2 Scan type: SWING II 16 BITS Short name: SWING2 Movement: Mirror - Brightness Master on Dimmer DMX channel order

Divin on annor or ac		
1: Iris	2: Color 1	3: Gobo 1
4: Shutter	5: Pan coarse	Pan fine
Tilt coarse	8: Tilt fine	9: Dimmer
10: G.Swing=Rot.	1 11: Focus	12: Color 2
13: Gobo 2	14: G.Rot.=Rotati	on 2

Presets available.

Scan type: SWING II

Short name: SWING2

Scan type: CHANDRA II 16 BITS

Short name: CHAN 2

Movement: Mirror - Brightness Master on Dimmer

DMX channel order				
1: Iris	2:	Color 1	3:	Gobo 1
4: Shutter	5:	Pan coarse	6:	Pan fine
7: Tilt coarse	8:	Tilt fine	9:	Dimmer
10: G.Swing=Rot. 1	11	: Focus	12:	Rotation 3
13: Gobo 2	14	: Rotation 2		

Manufacturer LYTE QUEST

Scan type: MOTORHEAD Short name: MOTORH Movement: Mirror - Brightness Master on Dimmer DMX channel order

1:	Pan Gobo 1	 Tilt Dimmer	3:	Color 1
4.				

Manufacturer MAD LIGHTING

Scan type: QSCAN Short name: CSCAN Movement: Mirror - Brightness Master on Dimmer DMX channel order 1: Pan 2: Tilt 3: Gobo 1 4: Color 1 5: Dimmer

Scan type: SCAN 611

 Short name: SCAN61

 Movement: Mirror
 Brightness Master on Dimmer

 DMX channel order

 1: Pan
 2: Tilt
 3: Gobo 1

 4: Color 1
 5: Dimmer
 6: Rotation

Manufacture	r MARTIN		Scan
	DSCAN 804/805/1	004/16	Short Move
Short name: R 8		Mostor	DMX
DMX channel or	r - No Brightness ter	SMASLEI	1: S
1: Shutter	2: Color	3: Gobo 1	4: C 7: F
4: Pan Presets availa	5: Tilt		10: Pa Prese
Scan type: PRO			Scan
Short name: PRC		atas an Dimmon	Short
DMX channel or	r - Brightness Ma	aster on Dimmer	Move
1: Shutter	2: Dimmer	3: Color 1	DMX 1: S
4: Gobo 1 7: Speed	5: Pan	6: Tilt	4: C 7: F
Presets availa	ble		10: P
			13: (0 15: R
Scan type: PRO Short name: PRO	218 Mode3 High R)218	100.	Pres
	r - Brightness Ma	aster on Dimmer	Scan
DMX channel or	0		Short
1: Shutter 4: Gobo 1	2: Dimmer	3: Color 1 e 6: Pan fine	Move
7: Tilt coarse	8: Tilt fine	e o. rannne	DMX
Presets availa	ble		1: S 4: R
Scan type: PRO	 518		7: Ti
Short name: PRC			Scan
Movement: Mirro	r - Brightness Ma	aster on Dimmer	Short
DMX channel or			Move
1: Shutter 4: Gobo 1	2: Dimmer 5: Prism	3: Color 1 6: Pan	DMX 1: S
7: Tilt	8: Speed 1	9: Speed 2	4: C
Presets availa	ble. 		7: F 10: P
Scan type: PRO	518 H.Res Mode	3	13: Ti
Short name: PRC	0518		Pres
Movement: Mirro	r - Brightness Ma	aster on Dimmer	Scan
DMX channel or 1: Shutter	der 2: Dimmer	3: Color 1	Short
4: Gobo 1	5: Prism	6: Pan	Move
7: Pan fine Presets availa	8: Tilt	9: Tilt fine	DMX 1: S
			4: G
Scan type: PRO	812		7: F 10: P
Short name: PRC			13: S
	r - Brightness Ma	aster on Shutter	Pres
DMX channel or 1: Shutter	2: Color 1	3: Gobo 1	Scan
4: Pan	5: Tilt	6: Speed 1	Short
7: Speed 2 Presets availal	ble.		Move
			DMX 1: S
Scan type: PRO			4: C 7: Y
	r - Brightness Ma	aster on Dimmer	10: R
DMX channel or			13: P Pres
1: Shutter	2: Dimmer	3: Color 1	
4: Color 2 7: Gobo 2	5: Gobo 1 8: Focus	6: Rotation 1 9: Iris	Scan
10: Prisma 13: Tilt	11: Pan 14: Tilt fine	12: Pan fine 15: Speed 1	Short
16: Speed 2			Move
			DMX 1: S
			4: C 7: Y
			7: Y 10: R
			13: P

Short name: R 1020 Movement: Mirror - Brightness Master on Dimmer DMX channel order 1: Shutter 2: Dimmer 3: Color 1 4: Color 2 5: Gobo 1 6: Gobo 2 7: Focus 8: Iris 9: Prism 10: Pan 11: Tilt 12: Speed 1 Presets available. 	Movement: Mirror - Brightness Master on Dimmer DMX channel order 1: Shutter 2: Dimmer 3: Color 1 4: Color 2 5: Gobo 1 6: Gobo 2 7: Focus 8: Iris 9: Prism 10: Pan 11: Tilt 12: Speed 1 Presets available. Scan type: R 1220 Movement: Mirror - Brightness Master on Dimmer DMX channel order 1: Shutter 2: Dimmer 3: Color 1 4: Color 2 5: Gobo 1 6: Gobo 2 7: Focus 8: Iris 9: Prism 10: Pan 11: Tilt 12: (M-)Speed 1 13: (C-)Speed 2 14: G-Speed=Special 15: Rotation 3 16: Gobo Index + Rotation=Rotation 1 Presets available. Scan type: IMAGE SCAN MODE 2 Short name: IMAGE Movement: Mirror - Brightness Master on Dimmer DMX channel order 1: Shutter 2: Focus 3: Rotation 1 4: Rotation 2 5: Pan 6: Pan fine 7: Tilt 8: Tilt 18: Tilt 19: Speed 1 5: Rotation 2 5: Pan 6: Pan fine 7: Tilt 8: Tilt 19: Speed 1 5: Rotation 2 5: Gobo 1 6: Gobo 2 7: Focus 8: Iris 9: Speed 1 Scan type: R 1220 BETA Short name: Mirror - Brightness Master on Dimmer DMX channel order 1: Shutter 2: Dimmer 3: Color 1 4: Color 2 5: Gobo 1 6: Gobo 2 7: Focus 8: Iris 9: Prism 10: Pan coarse 11: Pan fine 12: Tilt coarse 13: Tilt 19: Pan fine 11: Pan fine 12: Tilt coarse 13: Tilt 19: Singhtness Master on Dimmer DMX channel order 1: Shutter 2: Dimmer 3: Color 1 4: Gobo 1 5: Gobo 1 6: Gobo 2 7: Focus 8: Iris 9: Prism 10: Pan 11: Tilt 12: Speed 1 13: Speed 2 Presets available. Scan type: R 1220 CMY M1 Short name: 1220 C Movement: Mirror - Brightness Master on Dimmer DMX channel order 1: Shutter 2: Dimmer 3: Color 1 4: Gobo 1 5: Gobo 1 6: Gobo 2 7: Focus 8: Iris 9: Prism 10: Pan 11: Tilt 12: Speed 1 13: Speed 2 Presets available. Scan type: R 1220 CMY M2 Short name: 1220 C Movement: Mirror - Brightness Master on Dimmer DMX channel order 1: Shutter 2: Dimmer 3: Color 1 4: Color 2 5: Cyan 6: Magenta 7: Yellow 8: Gobo 1 9: Gobo 2 10: Rotation 1 11: Focus 12: Iris 13	Scan type: R 1020	•			
DMX channel order 1: Shutter 2: Dimmer 3: Color 1 4: Color 2 5: Gobo 1 6: Gobo 2 7: Focus 8: Iris 9: Prism 10: Pan 11: Tilt 12: Speed 1 Presets available. Scan type: R 1220 Movement: Mirror - Brightness Master on Dimmer DMX channel order 1: Shutter 2: Dimmer 3: Color 1 4: Color 2 5: Gobo 1 6: Gobo 2 7: Focus 8: Iris 9: Prism 10: Pan 11: Tilt 12: (N-Speed 1 13: Gotor 3 14: Gotor 2 5: Gobo 1 14: Gotor 2 14: Gotor 2 15: Rotation 3 16: Gobo Index + Rotation=Rotation 1 Presets available. Scan type: IMAGE SCAN MODE 2 Short name: IMAGE Movement: Mirror - Brightness Master on Dimmer DMX channel order 1: Shutter 2: Focus 3: Rotation 1 4: Rotation 2 5: Pan 5: Color 1 4: Rotation 2 5: Pan 5: Shutter 2: Focus 3: Rotation 1 4: Rotation 2 5: Pan 5: Color 1 4: Color 2 5: Gobo 1 5: Gobo 1 6: Gobo 2 7: Focus 3: Rotation 1 4: Rotation 2 5: Pan 5: Shutter 2: Shutter 1: Shutter 2: Dimmer 3: Color 1 4: Color 2 5: Gobo 1 6: Gobo 2 7: Focus 3: Iris 9: Prism 10: Pan coarse 11: Pan fine 12: Tilt coarse 13: Tilt fine Presets available. Scan type: R 1220 XR Mode 3 Short name: 1220XR Movement: Mirror - Brightness Master on Dimmer DMX channel order 1: Shutter 2: Dimmer 3: Color 1 4: Gobo 1 5: Gobo 2 6: Rotation 1 7: Focus 8: Iris 9: Prism 10: Pan 11: Tilt 12: Speed 1 13: Speed 2 Presets available. Scan type: R 1220 CMY M1 Short name: 1220 C Movement: Mirror - Brightness Master on Dimmer DMX channel order 1: Shutter 2: Dimmer 3: Color 1 4: Gobo 1 5: Gobo 2 6: Rotation 1 7: Focus 8: Iris 9: Prism 10: Pan 11: Tilt 12: Speed 1 13: Speed 2 Presets available. Scan type: R 1220 CMY M2 Short name: 1220 C Movement: Mirror - Brightness Master on Dimmer DMX channel order 1: Shutter 2: Dimmer 3: Color 1 4: Color 2 5: Cyan 6: Magenta 7: Yellow 8: Gobo 1 9: Gobo 2 12: Iris 13: Prisma 14: Pan 15: Tilt 7: Focus 12: Iris 13: Prisma 14: Pan 15: Tilt 7: Focus 14: Color 2 15: Cyan 14: Color 2 15: Cyan 14: Color 2 15: C	DMX channel order 1: Shutter 2: Dimmer 3: Color 1 4: Color 2 5: Gobo 1 Presets available. Scan type: R 1220 Short name: R 1220 Movement: Mirror - Brightness Master on Dimmer DMX channel order 1: Shutter 2: Dimmer 3: Color 1 4: Color 2 5: Gobo 1 6: Gobo 2 7: Focus 8: Iris 9: Prism 10: Pan 11: Tilt 12: (M-)Speed 1 13: (C-)Speed 2 14: G-Speed=Special 15: Rotation 3 16: Gobo Index + Rotation=Rotation 1 Presets available . Scan type: IMAGE SCAN MODE 2 Short name: IMAGE Movement: Mirror - Brightness Master on Dimmer DMX channel order 1: Shutter 2: Focus 3: Rotation 1 4: Rotation 2 5: Pan 6: Pan 1: Shutter 2: Focus 3: Rotation 1 4: Rotation 2 5: Pan 6: Pan 1: Shutter 2: Dimmer 3: Color 1 4: Color 2 5: Gobo 1 6: Gobo 1 1: Shutter 2: Dimmer 3: Color 1 4: Color 2 5: Gobo 1 6: Gobo 2 7: Focus 8: Iris 9: Prism 10: Pan coarse 11: Pan fine 12: Tilt coarse 13: Tilt fine Presets available. Scan type: R 1220 XR Mode 3 Short name: 1220XR Movement: Mirror - Brightness Master on Dimmer DMX channel order 1: Shutter 2: Dimmer 3: Color 1 4: Gobo 1 5: Gobo 2 7: Focus 8: Iris 9: Prism 10: Pan 11: Tilt 12: Speed 1 3: Speed 2 Presets available. Scan type: R 1220 CMY M1 Short name: 1220 C Movement: Mirror - Brightness Master on Dimmer DMX channel order 1: Shutter 2: Dimmer 3: Color 1 4: Gobo 1 5: Gobo 2 6: Rotation 1 7: Focus 8: Iris 9: Prism 10: Pan 11: Tilt 12: Speed 1 13: Speed 2 Presets available. Scan type: R 1220 CMY M1 Short name: 1220 C Movement: Mirror - Brightness Master on Dimmer DMX channel order 1: Shutter 2: Dimmer 3: Color 1 4: Color 2 5: Cyan 6: Magenta 7: Yellow 8: Gobo 1 9: Gobo 2 10: Rotation 1 11: Focus 12: Iris 13: Prism 14: Pan 15: Tilt 7: Yellow 8: Gobo 1 9: Gobo 2 10: Rotation 1 11: Focus 12: Iris 12: Iris 13: Prism 14: Color 2 5: Cyan 15: Magenta 7: Yellow 15: Cya			ightness Mas	ter on E	Dimmer
4: Color 2 5: Cobo 1 6: Gobo 2 7: Focus 8: Iris 9: Prism 10: Pan 11: Tilt 12: Speed 1 Presets available. Scan type: R 1220 Movement: Mirror - Brightness Master on Dimmer DMX channel order 1: Shutter 2: Dimmer 3: Color 1 4: Color 2 5: Gobo 1 6: Gobo 2 7: Focus 8: Iris 9: Prism 10: Pan 11: Tilt 12: (M-)Speed 1 13: (C-)Speed 2 14: G-Speed=Special 15: Rotation 3 16: Gobo Index + Rotation=Rotation 1 Presets available. Scan type: IMAGE SCAN MODE 2 Short name: IMAGE Movement: Mirror - Brightness Master on Dimmer DMX channel order 1: Shutter 2: Focus 3: Rotation 1 4: Rotation 2 5: Pan 6: Pan fine 7: Tilt 8: Tilt fine 9: Speed 1 4: Rotation 2 5: Pan 6: Pan fine 7: Tilt 8: Tilt fine 9: Speed 1 Scan type: R 1220 BETA Short name: R 1220 Movement: Mirror - Brightness Master on Dimmer DMX channel order 1: Shutter 2: Dimmer 3: Color 1 4: Color 2 5: Gobo 1 6: Gobo 2 7: Focus 8: Iris 9: Prism 10: Pan coarse 11: Pan fine 12: Tilt coarse 13: Tilt fine Presets available. Scan type: R 1220 XR Mode 3 Short name: 1220XR Movement: Mirror - Brightness Master on Dimmer DMX channel order 1: Shutter 2: Dimmer 3: Color 1 4: Color 2 5: Gobo 1 6: Gobo 2 7: Focus 8: Iris 9: Prism 10: Pan coarse 11: Pan fine 12: Tilt coarse 13: Tilt fine Presets available. Scan type: R 1220 XR Mode 3 Short name: 1220XR Movement: Mirror - Brightness Master on Dimmer DMX channel order 1: Shutter 2: Dimmer 3: Color 1 4: Gobo 1 5: Gobo 2 6: Rotation 1 7: Focus 8: Iris 9: Prism 10: Pan 11: Tilt 12: Speed 1 13: Speed 2 Presets available. Scan type: R 1220 CMY M1 Short name: 1220 C Movement: Mirror - Brightness Master on Dimmer DMX channel order 1: Shutter 2: Dimmer 3: Color 1 4: Color 2 5: Cyan 6: Magenta 7: Yellow 8: Gobo 1 9: Gobo 2 10: Rotation 1 11: Focus 12: Iris 13: Prism 14: Presets available. Scan type: R 1220 CMY M2 Short name: 1220 C Movement: Mirror - Brightness Master on Dimmer DMX channel order 1: Shutter 2: Dimmer 3: Color 1 4: Color 2 5: Cyan 6: Magenta 7: Yellow 8: Gobo 1 9: Go	4: Color 2 5: Gobo 1 6: Gobo 2 7: Focus 8: Iris 9: Prism 10: Pan 11: Tilt 12: Speed 1 Presets available. Scan type: R 1220 Movement: Mirror - Brightness Master on Dimmer DMX channel order 1: Shutter 2: Dimmer 3: Color 1 4: Color 2 5: Gobo 1 6: Gobo 2 7: Focus 8: Iris 9: Prism 10: Pan 11: Tilt 12: (M-)Speed 1 13: Got 2 14: G-Speed=Special 15: Rotation 3 16: Gobo Index + Postation=Rotation 1 Presets available. Scan type: IMAGE SCAN MODE 2 Short name: IMAGE Movement: Mirror - Brightness Master on Dimmer DMX channel order 1: Shutter 2: Focus 3: Rotation 1 4: Rotation 2 5: Pan 6: Pan fine 7: Tilt 8: Tilt fine 9: Speed 1 1: Shutter 2: Focus 3: Rotation 1 4: Rotation 2 5: Pan 6: Pan fine 7: Tilt 8: Tilt fine 9: Speed 1 Scan type: R 1220 BETA Short name: R 1220 Movement: Mirror - Brightness Master on Dimmer DMX channel order 1: Shutter 2: Dimmer 3: Color 1 4: Color 2 5: Gobo 1 6: Gobo 2 7: Focus 8: Iris 9: Prism 10: Pan coarse 11: Pan fine 12: Tilt coarse 13: Tilt fine Presets available. Scan type: R 1220 XR Mode 3 Short name: 1220X Movement: Mirror - Brightness Master on Dimmer DMX channel order 1: Shutter 2: Dimmer 3: Color 1 4: Gobo 1 5: Gobo 2 6: Rotation 1 7: Focus 8: Iris 9: Prism 10: Pan coarse 11: Pan fine 12: Tilt coarse 3: Tilt fine Presets available. Scan type: R 1220 XR Mode 3 Short name: 1220X Movement: Mirror - Brightness Master on Dimmer DMX channel order 1: Shutter 2: Dimmer 3: Color 1 4: Gobo 1 5: Gobo 2 6: Rotation 1 7: Focus 8: Iris 9: Prism 10: Pan 11: Tilt 12: Speed 1 13: Speed 2 Presets available. Scan type: R 1220 CMY M1 Short name: 1220 C Movement: Mirror - Brightness Master on Dimmer DMX channel order 1: Shutter 2: Dimmer 3: Color 1 4: Color 2 5: Cyan 6: Magenta 7: Yellow 8: Gobo 1 9: Gobo 2 10: Rotation 1 11: Focus 12: Iris 13: Prism 14: Pan 15: Tilt Presets available. Scan type: R 1220 CMY M2 Short name: 1220 C Movement: Mirror - Brightness Master on Dimmer DMX channel order 1: Shutter 2: Dimmer 3: Color 1 4: Color 2 5: Cya			9		
7: Focus 8: Iris 9: Prism 10: Pan 11: Tilt 12: Speed 1 Presets available.	7: Focus 8: Ins 9: Prism 10: Pan 11: Tilt 12: Speed 1 Presets available.					
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Scan type: R 1220 Short name: R 1220 Movement: Mirror - Brightness Master on Dimmer DMX channel order 1: Shutter 2: Dimmer 3: Color 1 4: Color 2 5: Gobo 1 6: Gobo 2 7: Focus 8: Iris 9: Prism 10: Pan 11: Tilt 12: (M-)Speed 1 13: (C-)Speed 2 14: G-Speed=Special 15: Rotation 3 16: Gobo Index + Rotation=Rotation 1 Presets available. Scan type: IMAGE SCAN MODE 2 Short name: IMAGE Movement: Mirror - Brightness Master on Dimmer DMX channel order 1: Shutter 2: Focus 3: Rotation 1 4: Rotation 2 5: Pan 6: Pan fine 7: Tilt 8: Tilt fine 9: Speed 1 Scan type: R 1220 BETA Short name: R 1220 Movement: Mirror - Brightness Master on Dimmer DMX channel order 1: Shutter 2: Dimmer 3: Color 1 4: Color 2 5: Gobo 1 6: Gobo 2 7: Focus 8: Iris 9: Prism 10: Pan coarse 11: Pan fine 12: Tilt coarse 13: Tilt fine Presets available. Scan type: R 1220 XR Mode 3 Short name: 1220XR Movement: Mirror - Brightness Master on Dimmer DMX channel order 1: Shutter 2: Dimmer 3: Color 1 4: Gobo 1 5: Gobo 2 7: Focus 8: Iris 9: Prism 10: Pan coarse 11: Pan fine 12: Tilt coarse 13: Tilt fine Presets available. Scan type: R 1220 XR Mode 3 Short name: 1220XR Movement: Mirror - Brightness Master on Dimmer DMX channel order 1: Shutter 2: Dimmer 3: Color 1 4: Gobo 1 5: Gobo 2 Focus 8: Iris 9: Prism 10: Pan 11: Tilt 12: Speed 1 13: Speed 2 Presets available. Scan type: R 1220 CMY M1 Short name: 1220 C Movement: Mirror - Brightness Master on Dimmer DMX channel order 1: Shutter 2: Dimmer 3: Color 1 4: Color 2 5: Cyan 6: Magenta 7: Yellow 8: Gobo 1 9: Gobo 2 10: Rotation 1 11: Focus 12: Iris 3: Prisma 14: Pan 15: Tilt Presets available. Scan type: R 1220 CMY M2 Short name: 1220 C Movement: Mirror - Brightness Master on Dimmer DMX channel order 1: Shutter 2: Dimmer 3: Color 1 4: Color 2 5: Cyan 6: Magenta 7: Yellow 8: Gobo 1 9: Gobo 2 10: Rotation 1 11: Focus 12: Iris	Scan type: R 1220 Short name: R 1220 Movement: Mirror - Brightness Master on Dimmer DMX channel order 1: Shutter 2: Dimmer 3: Color 1 4: Color 2 5: Gobo 1 6: Gobo 2 7: Focus 8: Iris 9: Prism 10: Pan 11: Tilt 12: (M-)Speed 1 13: (C-)Speed 2 14: G-Speed=Special 15: Rotation 3 16: Gobo Index + Rotation=Rotation 1 Presets available. Scan type: IMAGE SCAN MODE 2 Short name: IMAGE Movement: Mirror - Brightness Master on Dimmer DMX channel order 1: Shutter 2: Focus 3: Rotation 1 4: Rotation 2 5: Pan 6: Pan fine 7: Tilt 8: Tilt fine 9: Speed 1 Scan type: R 1220 BETA Short name: R 1220 Movement: Mirror - Brightness Master on Dimmer DMX channel order 1: Shutter 2: Dimmer 3: Color 1 4: Color 2 5: Gobo 1 6: Gobo 2 7: Focus 8: Iris 9: Prism 10: Pan coarse 11: Pan fine 12: Tilt coarse 13: Tilt fine Presets available. Scan type: R 1220 XR Mode 3 Short name: 1220XR Movement: Mirror - Brightness Master on Dimmer DMX channel order 1: Shutter 2: Dimmer 3: Color 1 4: Gobo 1 5: Gobo 2 6: Rotation 1 7: Focus 8: Iris 9: Prism 10: Pan coarse 11: Pan fine 12: Tilt coarse 13: Tilt fine Presets available. Scan type: R 1220 XR Mode 3 Short name: 1220XR Movement: Mirror - Brightness Master on Dimmer DMX channel order 1: Shutter 2: Dimmer 3: Color 1 4: Gobo 1 5: Gobo 2 6: Rotation 1 7: Focus 8: Iris 9: Prism 10: Pan 11: Tilt 12: Speed 1 13: Speed 2 Presets available. Scan type: R 1220 CMY M1 Short name: 1220 C Movement: Mirror - Brightness Master on Dimmer DMX channel order 1: Shutter 2: Dimmer 3: Color 1 4: Color 2 5: Cyan 6: Magenta 7: Yellow 8: Gobo 1 9: Gobo 2 10: Rotation 1 11: Focus 12: Iris 13: Prisma 14: Pan 15: Tilt Presets available. Scan type: R 1220 CMY M2 Short name: 1220 C Movement: Mirror - Brightness Master on Dimmer DMX channel order 1: Shutter 2: Dimmer 3: Color 1 4: Color 2 5: Cyan 6: Magenta 7: Yellow 8: Gobo 1 9: Gobo 2 10: Rotation 1 11: Focus 12: Iris			: lilt	12	: Speed 1
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10: Rotation 1 11: Focus 12: Iris 13: Prisma 14: Pan 15: Tilt Presets available.	10: Rotation 1 11: Focus 12: fris 13: Prisma 14: Pan 15: Tilt Presets available.	7: Yellow	8:	Gobo 1	9:	Gobo 2
Scan type: R 1220 CMY M2 Short name: 1220 C Movement: Mirror - Brightness Master on Dimmer DMX channel order 1: Shutter 2: Dimmer 3: Color 1 4: Color 2 5: Cyan 6: Magenta 7: Yellow 8: Gobo 1 9: Gobo 2 10: Rotation 1 11: Focus 12: Iris	Scan type: R 1220 CMY M2 Short name: 1220 C Movement: Mirror - Brightness Master on Dimmer DMX channel order 1: Shutter 2: Dimmer 3: Color 1 4: Color 2 5: Cyan 6: Magenta 7: Yellow 8: Gobo 1 9: Gobo 2 10: Rotation 1 11: Focus 12: Iris	13: Prisma	14			
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Movement: Mirror- Brightness Master on DimmerDMX channel order-1: Shutter2: Dimmer4: Color 25: Cyan6: Magenta7: Yellow8: Gobo 19: Gobo 210: Rotation 111: Focus12: Iris	Movement: MirrorBrightness Master on DimmerDMX channel order1: Shutter2: Dimmer4: Color 25: Cyan6: Magenta7: Yellow8: Gobo 19: Gobo 210: Rotation 111: Focus12: Iris					
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4: Color 2 5: Cyan 6: Magenta 7: Yellow 8: Gobo 1 9: Gobo 2 10: Rotation 1 11: Focus 12: Iris	4: Color 2 5: Cyan 6: Magenta 7: Yellow 8: Gobo 1 9: Gobo 2 10: Rotation 1 11: Focus 12: Iris		r	-		
7: Yellow 8: Gobo 1 9: Gobo 2 10: Rotation 1 11: Focus 12: Iris	7: Yellow 8: Gobo 1 9: Gobo 2 10: Rotation 1 11: Focus 12: Iris			-		
10: KOTATION 1 11: FOCUS 12: ITIS 13: Prism 14: Pan coarse 15: Pan fine	10: Kotation 1 11: Focus 12: Iris 13: Prism 14: Pan coarse 15: Pan fine		8:	Gobo 1	9:	Gobo 2
		13: Prism	14	: Pan coarse	12 15	: iris : Pan fine
16: Tilt coarse 17: Tilt fine	16: Tilt coarse 17: Tilt fine	16: Tilt coarse	17	: Tilt fine	-	
Presets available.	Presets available.	Presets available	ə.			

Scancommander ____

Scan type: R 1220 CMY M3

Short name: 1220 C

Movement: Mirror - Brightness Master on Dimmer

DMX channel orde	r	
1: Shutter	2: Dimmer	3: Color 1
4: Color 2	5: Cyan	6: Magenta
7: Yellow	8: Gobo 1	9: Gobo 2
10: Rotation 1	11: Focus	12: Iris
13: Prisma	14: Pan	15: Tilt
16: Speed 1	17: Speed 2	

Presets available.

Scan type: R 1220 RPR M4

Short name: 1220 RP

Movement: Mirror - Brightness Master on Dimmer

	Shutter Color 2		Dimmer Gobo 1		Color 1 Gobo 2
10 13	Rotation 1 Prism Pan fine (M-)Speed 1	11: 14:	Focus Prism Rotation Tilt coarse (D+C) Speed 2	12:	Iris Pan coarse Tilt fine

Scan type: PAL 1200 DMX+8 Mode 4

Short name: PAL

Movement: Mirror - Brightness Master on Dimmer

DMX channel order 1-8: Patch Beam 9: Rotation3(B.S) 12: Cyan 15: Color 1 1(crob)		EXTRA channels 11: Dimmer 14: Yellow 17: Rotation 19: Zoom 20:
1(gobo) Frost 21: Pan coarse 24: Tilt fine	22: Pan fine 25: Speed 1	23: Tilt coarse 26: Speed 2
Presets available	Patch first 8 char	nels as EXTRA and

Presets available. Patch first 8 channels as EXTRA and set DMX address at Scancommander to lamp address +8. Mode 4 with SPEC ->dPr2 set to ON.

Scan type: PAL 1200 DMX+6 Mode 4 Protocol: DMX 512

Short name: PAL

Movement: Mirror - Brightness Master on Dimmer

7: Rot.2=B.S. 4a	r Sharper 1a-3b as 8: Rot.3=B.S.4b	
Special=B.S.Rot. 10: Shutter 13: Magenta 16: Gobo 1 19: Zoom 22: Pan fine 25: Speed 1	11: Dimmer 14: Yellow 17: Rotation 1 20: Frost 23: Tilt coarse 26: Speed 2	12: Cyan 15: Color 1 18: Focus 21: Pan coarse 24: Tilt fine

Presets available. Patch first 6 channels as EXTRA and set DMX address at Scancommander to lamp address +6. Mode 4 with SPEC ->dPr2 set to ON.

Scan type: PAL 1200 DISCO Mode 4						
Short name: PAL	DI					
Movement: Mirror	- Brightness Maste	er on Dimmer				
DMX channel ord	er					
1: Shutter	2: Dimmer	3: Cyan				
4: Magenta	5: Yellow	6: Color 1				
7: Gobo 1	8: Rotation 1	9: Prism				
10. Prism-Pot		12. Zoom				

7. Gubu i	o. Rotation i	9. FIISIII
10: Prism-Rot.	11: Focus	12: Zoom
13: Iris	14: Frost	15 Pan coarse
16: Pan fine	17: Tilt coarse	18: Tilt fine
19: Speed 1	20: Speed 2	
B (), (

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Presets available.
```

Scan type: MAC 2000 PROFILE

Short name: MA2000

Movement: Head- Brightness Master on DimmerDMX channel order1: Shutter2: Dimmer3: Cyan

4: Magenta	5: Yellow	6: Color 2			
7: Color 1	8: Gobo 1	9: Rotation 1			
10: Special = Gobo	1 Rotation fine	11:Gobo 2			
12: Rotation 2	13: Frost = Gobo	2 Rotation fine			
14: Prisma	15 PrRotation	16: Iris			
17: Focus	18: Zoom	19: Pan			
20: Pan fine	21: Tilt	22: Tilt fine			
23: Speed 1	24: Speed 2				
Presets available.					

Scan type: MAC 1200 Mode 4

Short name: MAC 12

Movement Head	 Brightness Master on Dimmer 			
DMX channel orde	er			
1: Shutter	2: Dimmer	3: Cyan		
4: Magenta	5: Yellow	6: Color 1		
7: Gobo 1	8: Frost	9: Pan coarse		
10: Pan fine	11: Tilt coarse	12: Tilt fine		

13: Speed 1 14: Speed 2

Presets available

Scan type: MAC 600 Mode 4

Short name: MAC600

Movement Head - Brightness Master on Dimmer

DMX channel orde	r			
1: Shutter	2: Dimmer	3: Cyan 6: Color 1		
4: Magenta	5: Yellow	6: Color 1		
7: Beam sharper	1 = Gobo 1			
8: Beam sharper	2 = Gobo 2	9: Pan coarse		
10: Pan fine	11: Tilt coarse	12: Tilt fine		
13: Speed 1	14: Speed 2			
Presets available				

Scan type: MAC 600 NT Mode 4

Short name: M600NT

Movement Head - Brightness Master on Dimmer DMX channel order

1: Shutter	2: Dimmer	3: Cyan			
4: Magenta	5: Yellow	6: Color 2			
7: Color 1	8: Special 11: Pan fine	9: Frost			
10: Pan	11: Pan fine	12: Tilt			
13: Tilt fine	14: Speed 1	15: Speed 2			
Presets available					

Scan type: MAC 500 Mode 4

Short name: MAC500

Movement Head - Brightness Master on Dimmer

DMX channel order

1: Shutter	2: Dimmer	3: Color1					
4: Color2	5: Gobo1	6: Rotation1(gobo)					
7: Gobo2	8: Focus	9: Iris					
10: Prism	11: Pan	12: Pan fine					
13: Tilt	14: Tilt fine	15: Speed 1					
14: Speed 2							
Presets available	Presets available						

Scan type: MAC 300 Mode 4

Short name: MAC300

Movement Head - Brightness Master on Dimmer

DMX channel order				
1: Shutter	2:	Dimmer	3:	Cyan
4: Magenta	5:	Yellow	6:	Color 1
7: Frost		Pan	9:	Pan fine
10: Tilt	11:	Tilt fine	12:	Speed 1
13: Speed 2				
Deserts suchable				

Presets available

Scan type: MAC 250 Mode 4 Short name: MAC250 Movement Head - Brightness Master on Dimmer DMX channel order 1: Shutter 2: Dimmer 3: Color1 4: Gobo1 5: Rotation1(gobo) 6: Focus 7: Prism 8: Pan 9: Pan fine	Scan type: ROBOZ Short name: ZAPM No Movement: DMX channel orde 1: Shutter 4: Gobo 1
10: Tilt 11: Tilt fine 12: Speed 1 13: Speed 2 Presets available	Scan type: CENTRE Short name: CENTR
Scan type: MINI MAC PR M4 Short name: MIMACP Movement Head - Brightness Master on Shutter DMX channel order	No Movement: DMX channel orde 1: Shutter 4: Tilt 3=Gobo 1 7: Rotation 1
Divide frame of definition1: Shutter2: Color 13: Gobo 14: Rotation 15: Pan6: Pan fine7: Tilt8: Tilt fine9: Speed 110: Speed 2Presets available	Manufacturer Scan type: PANA I Short name: PANA
Scan type: MINI MAC WASH M4 Short name: MIMACP Movement Head - Brightness Master on Shutter DMX channel order	Movement: Mirror DMX channel orde 1: Pan 4: Dimmer
1: Shutter 2: Color 1 3: Pan 4: Pan fine 5: Tilt 6: Tilt fine 7: Speed 1 8: Speed 2 Presets available	Scan type: COLOU Short name: CFAD No Movement
Scan type: MX-1 Short name: MX-1	DMX channel orde 1: Yellow 4: Dimmer
Movement Head - Brightness Master on Dimmer DMX channel order 1: Dimmer 2: (no used) 3: Color 1 4: Pan 5: Tilt 6: Speed 1	Manufacturer Scan type: WL-250
Scan type: ROBOCOLOR MSD Short name: MSD No Movement: - Brightness Master on Dimmer DMX channel order 1: Shutter 2: Dimmer 3: Color 1 4: Color 2 Presets available	Short name: WL25 Movement: Head DMX channel orde 1: Pan 4: Tilt fine 7: Color 1 10: Yellow 13: Prisma 16: Dimmer
Scan type: ROBOCOLOR PRO 400 5 Short name: ROBCOP No Movement: - Brightness Master on Dimmer	Scan type: SL-250 Short name: SL-25 Movement: Head
DMX channel order 1: Shutter 2: Dimmer 3: Color 1 4: Color 2 5: Gobo 1	DMX channel orde 1: Pan 4: Tilt fine
Scan type: ROBOCOLOR PRO 400 7 Short name: ROBCOP	7: Color 1 10: PrRotation 13: (no used) 16: Dimmer
No Movement: - Brightness Master on Dimmer DMX channel order 1: Shutter 2: Dimmer 3: Color 1 4: Color 2 5: Gobo 1 6: (C-)Speed 1 7: (D-)Speed 2	Scan type: WL-575 Short name: WL-57 Movement: Head
Scan type: ROBOCOLOR No Movement: - No Brightness Master DMX channel order 1: Shutter 2: C. H1=Color 1 3: C. H2=Color 2 4: C.H3=Gobo 1 5: C.H4=Gobo 22 6: Speed	DMX channel orde 1: Pan 4: Tilt fine 7: Color 1 10: Yellow 13: Prisma 16: Dimmer
Scan type: ROBOZAP Short name: ZAP No Movement: - No Brightness Master	
DMX channel order 1: Shutter 2: Color 1 3: Color 2 4: Rotation	

ZAPMSR

MSR

- No Brightness Master

٥N	IX channel order		
	Shutter Gobo 1	 Color 1 Gobo 2	 Color 2 Rotation 1

REPIECE H3+4=GO

ΓRΕ

- No Brightness Master

DN	IX channel order				
1:	Shutter	2:	Tilt 1=Pan	3:	Tilt 2=Tilt
4:	Tilt 3=Gobo 1	5:	Tilt 4=Gobo 2	6:	Color 1
7:	Rotation 1				

MORPHEUS

BEAM

А

- Brightness Master on Dimmer

DN	IX channel order				
•••	Pan Dimmer	2:	Tilt	3:	Color 1

JR FADER+DIMMER

DE+

- Brightness Master on Dimmer

DN	IX channel order				
	Yellow Dimmer	2:	Magenta	3:	Cyan

MOVITEC

50 WASHLIGHT

250

- Brightness Master on Dimmer

DMX channel order						
	Pan Tilt fine			3:	Tilt Special	
7:	Color 1	8:	Cyan	9:	Magenta	
	Yellow Prisma	11: 14·	Speed 2 (no used)		Color 2 Shutter	
	Dimmer	17.		10.	Onation	

0 SPOTLIGHT

250

- Brightness Master on Dimmer

DMX channel order						
1: Pan 4: Tilt fine 7: Color 1 10: PrRotation 13: (no used) 16: Dimmer	2: Pan fine 5: Speed 1 8: (no used) 11: Gobo 1 14: Focus	3: Tilt 6: Special 9: Prisma 12: Rotation 1 15: Shutter				

75 WASHLIGHT

575

- Brightness Master on Dimmer

DMX channel order				
1: Pan	5: 8: 11:	Pan fine Speed 1 Cyan Speed 2 (no used)	9: 12:	Tilt Special Magenta Color 2 Shutter

Scancommander_

Scan type: SL-575 SPOTLIGHT

Short name: SL-575

Movement: Head - Brightness Master on Dimmer

DMX channel order						
1: Pan	2: Pan fine	3: Tilt				
4: Tilt fine	5: Speed 1	6: Special				
7: Color 1	8: (no used)	9: Prisma				
10: Rotation 3	11: Ġobo 1 ´	12: Rotation 1				
13: (no used)	14: Focus	15: Shutter				
16: Dimmer						

Manufacturer OBIES

Scan type: XESCAN

Short name: SESCAN

Movement: Mirror - Brightness Master on Dimmer

DMX channel order							
1: Speed 1		Pan		Pan fine			
4: Tilt	5:	Tilt fine	6:	Dimmer			
7: Shutter	8:	Zoom	9:	Color 1			
10: Special							

Manufacturer OMICRON

Scan type: LASERAGE BASIC

Short name: LASERA

Movement: Mirror - No Brightness Master

DMX	channel	ordei
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1: Function=Gobo 1	2: Graphic=Gobo2
3: Scanspeed=Shutter	4: Clipping=Iris
5: Magenta	6: Yellow
7: Cyan	8: Colormode=Color 1
9: Pan	10: Tilt
11: Clones=Prism	12: Size=Zoom
13: Z-Position=Focus	14: X-Rot.=Speed 1
15: Y-Rot.=Speed 2	16: Z- Rot.=Special

Manufacturer OPTIKNET

Scan type: SOLAR SYSTEM Short name: SOLAR No Movement - Brightness Master on Dimmer DMX channel order 1: Gobo 1 Prisma 3: Rotation 1 2: Gobo 2 5: Speed 1 6: Rotation 2 4: 7: Dimmer Manufacturer SAGITTER Scan type: PRINCE Short name: PRINCE Movement: Mirror - Brightness Master on Shutter DMX channel order Tilt Color 1 1: Pan 3: 2: 4: Gobo 1 5: Shutter 6: Special Presets available Scan type:SUPER PRINCE TEMPLATE Short name: PRINCT Movement: Mirror - Brightness Master on Dimmer DMX channel order 1: Color 1 2: Gobo 1 3: Rotation 1 4: Prisma 5: Iris 6: Dimmer Shutter 8: Special 9: Pan 10: Tilt Presets available Scan type: INFINITY 12 CH. Short name: INFINI

Movement: Mirror - Brightness Master on Dimmer

Presets available					
		Fairline	12.	mine	
10: Tilt coarse		Pan fine			
7: Shutter	ō.	Control=Special			
4: Rotation 1	5:	Iris	6:	Focus	
1: Color 1	2:	Gobo 1	3:	Gobo 2	
DMX channel order					
	0.1	gillilooo maotor e			

Scan type: INFINITY ZOOM 14 CH.

Short name: INFINI

7

Movement: Mirror - Brightness Master on Dimmer DMX channel order

1: Color 1	2: Gobo 1	3: Gobo 2
 Rotation 1 	5: Frost	6: Iris
7: Zoom	8: Dimmerl	9: Shutter
10: Special	11: Pan coarse	12: Tilt coarse
13: Pan fine	14:Tilt fine	

Presets available

Scan type: INFINITY CLUB 1200

Short name: INFI C

Movement: Mirror - Brightness Master on Dimmer

DMX channel order								
1: Co	olor1	2:	Gobo1	3:	Rotation1(gobo)			
4: Pr	rism	5:	Rotation3(prism)	6:	Dimmer			
7: Sł	hutter	8:	Special	9:	Pan			
10: Ti	lt	11:	Pan fine	12:	Tilt fine			

Scan type: INFINITY LIVE 20 CH.

Short name: INFINI

Movement: Mirror - Brightness Master on Dimmer

DMX channel order

Presets available

Scan type: TRACER

Short name: TRACER

No movement	- Br	ightness	Master of	on	Shutter	(Dimmer)
DMX channel orde	er					
1: Color 1				3:	Iris	
4: Shutter/Dimme	r 5:	FOCUS				

Presets available

Scan type: MASK COLOR ZOOM

Short name: MASK C

- Brightness Master on Dimmer No Movement

DN	IX channel orde	r			
	Cyan	2:	Yellow	3:	Magenta
4:	Frost	5:	Iris	6:	Zoom
7:	Focus	8:	Special	9:	Shutter

10: Dimmer		•		
	 		 	_

Scan type: PRINCE Dimmer Invers

Short name: PRINCE

Movement: Mirror - Brightness Master on Dimmer DMX channel order 2. Tilt 3: Color 1 1. Pan

•••	i un	<u> </u>	1.114	۰.	00101 1
4:	Gobo 1	5:	Shutter	6:	Dimmer

For PRINCE SCAN LIGHT set Dimmer 0

Scan type: PRINCE Dimmer v1					
Short name: PRINCE1					
Movement: Mirror	Movement: Mirror - Brightness Master on Dimmer				
DMX channel order					
1: Pan	2: Tilt	3: Color 1			
4: Gobo 1	5: Shutter	6: Dimmer			

Presets available



Scan type: MOVING SPOT 250

Short name: MS-250

Movement: Head - Brightness Master on Dimmer

DMX channel orde	er	
1: Pan	2: Tilt	3: Pan fine
Tilt fine	5: Speed 1	6: Special
7: Color 1	8: (no used)	9: Prisma
10: PrRotation	11: Gobo 1	12: Rotation 1
13: (no used)	14: Focus	15: Shutter
16: Dimmer		

Scan type: MOVING WASH 250

Short name: MH 640

Movement: Head - Brightness Master on Dimmer

DMX channel order				
1: Pan	2:	Tilt	3:	Pan fine
Tilt fine	5:	Speed 1	6:	Special
7: Color 1	8:	Cyan	9:	Magenta
10: Yellow	11	: Speed 2		Color 2
13: Prisma	14	: (no used)	15:	Shutter
16: Dimmer				

Scan type: MOVING SPOT 575

Short name: MS-575

Movement: Head - Brightness Master on Dimmer

DMX channel order		
1: Pan	2: Tilt	3: Pan fine
4: Tilt fine	5: Speed 1 8: Color 2	6: Special
7: Color 1	8: Color 2	9: Prisma
10: Gobo 1	11: Rotation 1	12: Rotation 2
13: Iris	14: Focus	15: Shutter
16: Dimmer		

Scan type: MOVING WASH 575

Short name: MW-575

Movement: Head - Brightness Master on Dimmer

DMX channel orde	r	
1: Pan	2: Tilt	3: Pan fine
4: Tilt fine	5: Speed 1	6: Special
7: Color 1	8: Cyan	9: Magenta 12: Color 2
10: Yellow	11: Speed 2	12: Color 2
13: Prisma	14: Focus	15: Shutter
16: Dimmer		

Manufacturer SGM

Scan type: GALILEO 1

Short name: GALILE

Movement: Mirror - Brightness Master on Iris

		0		
DMX channel order				
1: Iris	2:	Color 1	3:	Gobo 1
4: Shutter	5:	Pan	6:	Tilt
Description and the late	_			

Presets available

Scan type: GALILEO II H.R.

Short name: GAL 2H

Movement: Mirror - Brightness Master on Dimmer

DMX channel order							
1: Iris	2:	Color 1	3:	Gobo 1			
4: Shutter	5:	Pan coarse	6:	Tilt coarse			
7: Rotation 1	8:	Dimmer	9:	Prism			
10: Special	11:	Pan fine	12:	Tilt fine			
Description and the later							

Presets available

Scan type: GALILEO III High Res.

Short name: GAL 3

Movement: Mirror - Brightness Master on Dimmer

DMX channel order						
1: Iris 4: Shutter	2: Color 1 5: Pan coarse	3: Gobo 1 6: Tilt coarse				
7: Rotation 1	8: Dimmer	9: Prism				
10: Speed 1 13: Pan fine	11: PrRotation 14: Tilt fine	12: Reset=Special				
Presets available						

Scan type: GALILEO IV

Short name: GAL 4

Movement: Mirror - Brightness Master on Dimmer DMX channel order

1:	Iris	2:	Color 1	3:	Gobo 1
4:	Shutter	5:	Pan coarse	6:	Tilt coarse
			Dimmer		Prism
	Speed 1		: PrRotation	12:	Rotation 2
13:	Rot. Pr2=Speed				Color 2
	Focus	16:	Reset=Special	17:	Pan fine
18:	Tilt fine				

Presets available

Scan type: GIOTTO

Short name: GIOTTO

Movement: Head - Brightness Master on Dimmer

DM	X channel order		
1:	Pan	2:	Pan fine

1: Pan	2: Pan fine	3: Tilt
4: Tilt fine	5: Color 1	6: Cyan
7: Magenta	8: Yellow	9: Dimmer
10: Shutter 13: Special	11: Zoom	12: Speed 1

Scan type: VICTORY 1

Short name: VIC 1

Movement: Mirror - Brightness Master on Dimmer

D№	1X channel order				
1:	Dimmer	2:	Color 1	3:	Gobo 1
4:	Shutter	5:	Pan coarse	6:	Tilt coarse
7:	Special	8:	Pan fine	9:	Tilt fine
n					

Presets available

Scan type: VICTORY 2

Short name: VIC 2

Movement: Mirror - Brightness Master on Dimmer

Brocoto available				
10: Special	11:	Pan fine	12:	Tilt fine
7: Rotation 1		Color 2		Prism
4: Shutter	5:	Pan coarse	6:	Tilt coarse
1: Dimmer				Gobo 1
DMX channel order				

Presets available

Scan type: GITOTTO SPOT 250/400

Short name: GI SP1

Movement: Head - Brightness Master on Dimmer

DMX channel order		
1: Pan	2: Pan fine	3: Tilt
4: Tilt fine	5: Iris	6: Color 1
7: Gobo 1	8: Shutter	9: Dimmer
10: Rotation 1	11: Prisma	12: PrRotation
13: Focus	14: Zoom	15: Gobo 2
16: Frost	17: Speed 1	18: Special
19: Cyan = Gobosh	ake	20: Color 2
21: Rotation 2 = Go	bo Mode <>	22: Speed 2 =
Macro		

Presets available

Scan type: GITOTTO WASH 1200

Short name: GI WAS

Movement: Head - Brightness Master on Dimmer

DMX channel order		
1: Pan 4: Tilt fine 7: Magenta 10: Shutter 13: Special	2: Pan fine 5: Color 1 8: Yellow 11: Zoom	3: Tilt 6: Cyan 9: Dimmer 12: Speed 1

Presets available

Scancommander _

Scan type: GITOTTO SPOT 1200

Short name: GI SPO

Movement: Head - Brightness Master on Dimmer DMX channel order

DIMA Channel order		
1: Pan	2: Pan fine	3: Tilt
4: Tilt fine	5: Iris	6: Color 1
7: Gobo 1	8: Shutter	9: Dimmer
10: Rotation 1	11: Prisma	12: PrRotation
13: Focus	14: Zoom	15: Color 2
16: Frost	17: Speed 1	18: Special

Presets available

Scan type: GITOTTO 1200 DORS

Short name: GI DOR

Movement: Head - Brightness Master on Dimmer DMX channel order Pan 2. Pan fine 3: Tilt 1: 4: 7: Tilt fine Cyan Dimmer 5: Color 1 6: Magenta 8: 9: Yellow 10: Shutter 11: Zoom 12: Speed 1 13: Special

14: Gobo 1 = Blade1A 15: Gobo 2 = Blade2A 16:Rotation 1 = Blade3A 17: Rotation 2 = Blade4A 18:Ro.-Prisma = Blades<> Presets available

Manufacturer SHOWPRO

Scan type: CYBERSCAN 13 Ch.

Short name: CYBERS

Movement: Mirror - Brightness Master on Dimmer DMX channel order 2: Shutter 3: Color 1 1: Dimmer

4:	Gobo 1	5:	Rotation 1	6:	Iris
7:	Reset=Special	8:	Focus	9:	Pan coarse
10:	Pan fine	11:	Tilt coarse	12:	: Tilt fine
13:	Speed 1				

Presets available

Scan type: CYBERSCAN 10 Ch.

Short name: CYBERS

Mo	vement: Mirror		- Brightness	s Ma	aster on Dimmer
DM	X channel order				
	Dimmer		Shutter		Color 1
	Gobo 1		Rotation 1		Iris
7:	Focus	8:	Pan	9:	Tilt
10:	Speed 1				

Presets available

Scan type: ACCUBEAM AB-400

Short name: AB-400 Movement: Mirror - no Brightness Master DMX channel order 2: Tilt 3: Gobo 1 1: Pan 4: Color 1

Presets available

Scan type: ACCUCOLOR AB-60 Short name: AB-60 Movement: No movement - no Brightness Master DMX channel order 2: Color 1 1: Gobo 1 Presets available

Scan type: ACCUCOLOR AB-20 Short name: AB-20 Movement: Mirror - no Brightness Master DMX channel order 3: Color 1 2: Gobo 1 1: Speed 1 Presets available

Manufacturer SLS

Scan type: PANSCAN 3 JUNIOR

Short name: PAN 3J

Movement: Mirror - Brightness Master on Shutter

DMX channel order

1:	Pan	2:	Tilt	3:	Color
4:	Gobo	5:	Shutter		

Scan type: PANSCAN 4

Short name: PANSC4

Movement: Mirror - Brightness Master on Dimmer

DMX channel order

1: Pan coarse	2: Pan fine	3: Tilt coarse
4: Tilt fine	5: Color 1	6: Color 2
7: Gobo 1	8: Gobo 2	9: Rotation 1
10: Prism	11: PrRotation	12: Iris
13: Focus	14: Shutter	15: Dimmer
13: Focus	14: Shutter	15: Dimmer

Manufacturer SPACE CANNON

Scan type: BLACK DEVIL 6/1996

Short name: DEVIL

Movement: Head - No Brightness Master

DMX channel order				
1: Pan	2:	Tilt 3:	Color	
4: Zoom	5:	Lamp on=Speed 2		
6: L.off=Special	7:	Shutter=not used	8:	Prism=not
used				

For SPACE CANNON "TARGET" load "BLACK DEVIL" Tilt = Rot. Speed

Manufacturer STARLITE

Scan type: STARLITE MK2G H.Res

Short name: MK2G

Мо	vement: Head	- Br	ightness Master	on	Shutter
DN	1X channel orde	r			
1:	Iris	2:	Color	3:	Gobo
4:	Shutter	5:	Pan coarse	6:	Pan fine
7:	Tilt coarse	8:	Tilt fine	9:	Focus

Presets available

Scan type: STARLITE MK5 H.RES

Short name: MK5

7.

Special

10: Gobo 2

Movement: Head - Brightness Master on Dimmer

DMX channel order				
1: Pan 4: Tilt fine 7: Magenta 10: Gobo 1 13: Focus	5: 8: 11: 14:	Pan fine Color 1 Yellow Rotation 2 Iris	6: 9: 12: 15:	Tilt Cyan Rotation 1 Gobo 2 Prisma
16: Frost 19: Speed 1	17:	Shutter	18:	Dimmer

Manufacturer STRONG

Scan type: MINSCAN ROTAX Short name: ROTAX

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11: Gobo 1

Movement: Mirror - Brightness Master on Shutter DMX channel order Gobo 1 Color 1 2: Rotation 1 1: 3: Shutter 4: 5: Pan 6: Tilt Scan type: BIG SCAN Short name: BIG 3 Movement: Mirror - Brightness Master on Dimmer DMX channel order 1: Iris 2 Colour 1 3: Color 2 4: Shutter 5: Pan Prisma 6: Tilt

Focus

12: Rotation 1

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Manufacturer S	TUDIO DUE		Scan type: STRATOS RGB HR IRIS	
Scan type: VARYBE			Short name: STRA I	
Short name: VARY	В		Movement: Head - Brightness Master on Di	mmer
Movement: Head -	Brightness Master	on Shutter	DMX channel order 1: Frost 2: Colour 1 3:	Iris
DMX channel order			4: Shutter 5: Pan 6:	Pan fir
1: Pan 4: Gobo 1	2: Tilt 5: Shutter	3: Color 1 6: Speed 1		Dimme Cyan
7: Gobo 2	5. Shutter			Reset
Scan type: CITYCOI	LOR		Scan type: MINIBEAM	
Short name: CITY			Short name: MINI B	
No Movement -	Brightness Master	on Dimmer	Movement: Head - Brightness Master on S	hutter
DMX channel order		o	DMX channel order 1: Speed 1 2: Colour 1 3: 1	Gobo
1: Speed 1 4: Magenta 7: Special	2: Cyan 5: Dimmer	3: Yellow 6: Color 1	4: Shutter 5: Pan 6: Presets available	
Scan type: LIVE PR	O 1200 CMY		Scan type: GIANT HR	
Short name: LIVE C			Short name: GIANT	
Movement: Head -	Brightness Master	on Dimmer	Movement: Head - Brightness Master on S	nutter
DMX channel order 1: Iris	2: Colour 1	3: Gobo 1	DMX channel order 1: Speed1 2: Colour 1 3:	Gobo
4: Shutter	2: Colour 1 5: Pan	6: Pan fine	4: Shutter 5: Pan 6:	Pan fir
	8: Tilt fine 11: Focus	9: Dimmer 12: Colour 2	7: Tilt 8: Tilt fine 9: 5 Presets available	Specia
13: Gobo 2	14: Rotation 2	15: Magenta		
16: Cyan 19: Prisma	17: Yellow 20: Special	18: Frost	Scan type: LIGHT DEFLECTOR HR	
	··		Short name: L-REFL	
Scan type: LIVE PRO	2 1200 PRIM		Movement: Head - No Brightness Master	
Short name: LIVE P			DMX channel order	
Movement: Head -	-	on Dimmer	1: Pan 2: Pan fine 3: 4: Tilt fine 5: Rotation 6:	Tilt Speed
DMX channel order 1: Iris	2: Colour 1	3: Gobo 1	7: Special	opeed
4: Shutter	5: Pan	6: Pan fine		
7: Tilt 10: Speed 1	8: Tilt fine 11: Focus	9: Dimmer 12: Colour 2	Scan type: PREDATOR Short name: PREDAT	
13: Gobo 2	14: Rotation 2	15: Prisma	Movement: Head - No Brightness Master	
16: Special			DMX channel order	
Scan type: LIVE PR	O 1200 FROST		1: Speed 1 2: Color 1 3:	Gobo
Short name: LIVE F			4: Shutter 5: Pan 6:	
Movement: Head -	Brightness Master	on Dimmer	Scan type: CARIOCA	
DMX channel order 1: Iris		2. Coho 1	Short name: CARIOC	
4: Shutter	2: Colour 1 5: Pan	3: Gobo 1 6: Pan fine	Movement: Mirror 1 way only - Brightness M	Master
7: Tilt 10: Speed 1	8: Tilt fine 11: Focus 14: Rotation 2	9: Dimmer 12: Colour 2	DMX channel order	
13: Gobo 2	14: Rotation 2	15: Focus	1: Iris 2: Pan 3: 4: Color 1 5: Tilt=not used	Shutte
16: Special			Presets available	
Scan type: STRATO	STIK KESET		Seen type: STRATOS, UR, Dim non	
• •			Scan type: STRATOS HR Dim neg.	
Short name: STRA H	4	on Dimmer	Short name: STRA H)immo.
Short name: STRA H Movement: Head - DMX channel order	H · Brightness Master		Short name: STRA H Movement: Head - Brightness Master on D)immeı
Short name: STRA H Movement: Head - DMX channel order 1: Iris	H Brightness Master 2: Colour 1	3: Gobo 1	Short name: STRA H Movement: Head - Brightness Master on D DMX channel order	
Scan type: STRATO Short name: STRA H Movement: Head - DMX channel order 1: Iris 4: Shutter 7: Tilt 10: Sneed 1	H Brightness Master 2: Colour 1	3: Gobo 1	Short name: STRA H Movement: Head - Brightness Master on D DMX channel order	Gobo Pan fir
Short name: STRA H Movement: Head - DMX channel order 1: Iris	H Brightness Master 2: Colour 1	3: Gobo 1	Short name: STRA H Movement: Head - Brightness Master on D DMX channel order	Gobo
Short name: STRA H Movement: Head - DMX channel order 1: Iris 4: Shutter 7: Tilt 10: Speed 1 13: Gobo 2	H Brightness Master 2: Colour 1 5: Pan 8: Tilt fine 11: Focus 14: Rotation 1	3: Gobo 1	Short name: STRA H Movement: Head - Brightness Master on D DMX channel order 1: Iris 2: Colour 1 3: 4: Shutter 5: Pan coarse 6: 7: Tilt coarse 8: Tilt fine 9:	Gobo Pan fir Dimme
Short name: STRA H Movement: Head - DMX channel order 1: Iris 4: Shutter 7: Tilt 10: Speed 1 13: Gobo 2 Presets available Scan type: STRATO	H Brightness Master 2: Colour 1 5: Pan 8: Tilt fine 11: Focus 14: Rotation 1 S CMY HR ROGO	3: Gobo 1 6: Pan fine 9: Dimmer 12: Colour 2 15: Special = Reset	Short name: STRA HMovement: Head- Brightness Master on DDMX channel order1: Iris2: Colour 14: Shutter5: Pan coarse7: Tilt coarse8: Tilt fine9: Speed 111: Focus12: Gobo 214: Rotation 1Presets available	Gobo Pan fir Dimme
Short name: STRA H Movement: Head - DMX channel order 1: Iris 4: Shutter 7: Tilt 10: Speed 1 13: Gobo 2 Presets available Scan type: STRATO Short name: STRA F	H Brightness Master 2: Colour 1 5: Pan 8: Tilt fine 11: Focus 14: Rotation 1 9S CMY HR ROGO	3: Gobo 1 6: Pan fine 9: Dimmer 12: Colour 2 15: Special = Reset	Short name: STRA H Movement: Head - Brightness Master on D DMX channel order 1: Iris 2: Colour 1 3: 4 4: Shutter 5: Pan coarse 6: 7: Tilt coarse 8: Tilt fine 9: 10: Speed 1 11: Focus 12: 4 13: Gobo 2 14: Rotation 1 Presets available Scan type: STRATOS LR Dim neg.	Gobo Pan fir Dimme
Short name: STRA H Movement: Head - DMX channel order 1: Iris 4: Shutter 7: Tilt 10: Speed 1 13: Gobo 2 Presets available Scan type: STRATO Short name: STRA F Movement: Head -	H Brightness Master 2: Colour 1 5: Pan 8: Tilt fine 11: Focus 14: Rotation 1 DS CMY HR ROGO R Brightness Master	3: Gobo 1 6: Pan fine 9: Dimmer 12: Colour 2 15: Special = Reset	Short name: STRA H Movement: Head - Brightness Master on D DMX channel order 1: Iris 2: Colour 1 3: 4 4: Shutter 5: Pan coarse 6: 7: Tilt coarse 8: Tilt fine 9: 1 10: Speed 1 11: Focus 12: 1 13: Gobo 2 14: Rotation 1 Presets available Scan type: STRATOS LR Dim neg. Short name: STRA L	Gobo Pan fir Dimme Colour
Short name: STRA H Movement: Head - DMX channel order 1: Iris 4: Shutter 7: Tilt 10: Speed 1 13: Gobo 2 Presets available Scan type: STRATO Short name: STRA F Movement: Head -	H Brightness Master 2: Colour 1 5: Pan 8: Tilt fine 11: Focus 14: Rotation 1 PS CMY HR ROGO R Brightness Master	3: Gobo 1 6: Pan fine 9: Dimmer 12: Colour 2 15: Special = Reset on Dimmer	Short name: STRA H Movement: Head - Brightness Master on D DMX channel order 1: Iris 2: Colour 1 3: 4 4: Shutter 5: Pan coarse 6: 7: Tilt coarse 8: Tilt fine 9: 10: Speed 1 11: Focus 12: 4 13: Gobo 2 14: Rotation 1 Presets available Scan type: STRATOS LR Dim neg.	Gobo Pan fir Dimme Colour
Short name: STRA H Movement: Head - DMX channel order 1: Iris 4: Shutter 7: Tilt 10: Speed 1 13: Gobo 2 Presets available Scan type: STRATO Short name: STRA F Movement: Head - DMX channel order 1: Frost 4: Shutter	H Brightness Master 2: Colour 1 5: Pan 8: Tilt fine 11: Focus 14: Rotation 1 CODE SCMY HR ROGO R Brightness Master 2: Colour 1 5: Pan	3: Gobo 1 6: Pan fine 9: Dimmer 12: Colour 2 15: Special = Reset on Dimmer 3: Gobo 1 6: Pan fine	Short name: STRA H Movement: Head - Brightness Master on D DMX channel order 1: Iris 2: Colour 1 3: 4 4: Shutter 5: Pan coarse 6: 7 7: Tilt coarse 8: Tilt fine 9: 10: Speed 1 11: Focus 12: 4 10: Speed 1 11: Focus 12: 4 13: Gobo 2 14: Rotation 1 Presets available Scan type: STRATOS LR Dim neg. Short name: STRA L Movement: Head - Brightness Master on D DMX channel order 1: Iris 2: Colour 1 3: 4	Gobo Pan fir Dimme Colour
Short name: STRA H Movement: Head - DMX channel order 1: Iris 4: Shutter 7: Tilt 10: Speed 1 13: Gobo 2 Presets available Scan type: STRATO Short name: STRA F Movement: Head - DMX channel order 1: Frost 4: Shutter	H Brightness Master 2: Colour 1 5: Pan 8: Tilt fine 11: Focus 14: Rotation 1 CODE SCMY HR ROGO R Brightness Master 2: Colour 1 5: Pan	3: Gobo 1 6: Pan fine 9: Dimmer 12: Colour 2 15: Special = Reset on Dimmer 3: Gobo 1	Short name: STRA H Movement: Head - Brightness Master on D DMX channel order 1: Iris 2: Colour 1 3: 4 4: Shutter 5: Pan coarse 6: 7 7: Tilt coarse 8: Tilt fine 9: 1 10: Speed 1 11: Focus 12: 4 13: Gobo 2 14: Rotation 1 Presets available Scan type: STRATOS LR Dim neg. Short name: STRA L Movement: Head - Brightness Master on D DMX channel order 1: Iris 2: Colour 1 3: 4 4: Shutter 5: Pan 6: 7	Gobo Pan fir Dimme Colour

1: Speed 1 4: Shutter Presets availab	2: Colour 1 5: Pan Ie	3: Gobo 1 6: Tilt
Scan type: GIANT	 Г НR	
	- Brightness Maste	er on Shutter
DMX channel orde 1: Speed1 4: Shutter 7: Tilt Presets availab	2: Colour 1 5: Pan 8: Tilt fine	3: Gobo 1 6: Pan fine 9: Special
Scan type: LIGHT I Short name: L-REI		
	- No Brightness Ma	aster
DMX channel orde 1: Pan 4: Tilt fine 7: Special	er 2: Pan fine 5: Rotation	3: Tilt 6: Speed 1
Scan type: PREDA Short name: PRED Movement: Head		aster
DMX channel orde 1: Speed 1 4: Shutter	er 2: Color 1 5: Pan	3: Gobo 1 6: Tilt
Scan type: CARIC Short name: CARIC		
		tness Master on Shutter
DMX channel orde 1: Iris 4: Color 1 Presets availab	2: Pan 5: Tilt=not used	3: Shutter
Scan type: STRAT	 OS HR Dim neg	
Short name: STRA	•	
Movement: Head	- Brightness Maste	er on Dimmer invers
DMX channel orde 1: Iris 4: Shutter 7: Tilt coarse 10: Speed 1 13: Gobo 2 Presets availab	2: Colour 1 5: Pan coarse 8: Tilt fine 11: Focus 14: Rotation 1	3: Gobo 1 6: Pan fine 9: Dimmer 12: Colour 2
Scan type: STRAT	OS LR Dim neg.	
Short name: STRA		_
Movement: Head DMX channel orde	0	er on Dimmer invers
1: Iris 4: Shutter 7: Dimmer 10: Colour 2	2: Colour 1 5: Pan 8: Speed 1 11: Gobo 2	3: Gobo 1 6: Tilt 9: Focus 12: Rotation 1

3: Iris 6: Pan fine 9: Dimmer 12: Cyan 15: Reset=Special

Manufacturer SUMMA

Scan type: SUMMA HTI Short name: SUMMA Movement: Head - Brightness Master on Dimmer

DN	IX channel order				
1:	Color 1	2:	Color 2	3:	Pan
4:	Tilt	5:	Speed 1	6:	Gobo 1
7:	Zoom	8:	Focus	9:	Dimmer

Manufacturer TAS

Scan type: CRONO

Short name: CRONO

Movement: Mirror - Brightness Master on Dimmer

DN	IX channel order				
1:	Pan	2:	Tilt	3:	Dimmer
4:	Shutter	5:	Iris	6:	Gobo1
7:	Rotation1	8:	Color1	9:	Special

Scan type: CF6

Short name: CF6

Movement: Head	- Brightness Master on Dimmer
DMX channel orde	ar

DMX channel order		
1: Pan	2: Pan fir	ne 3: Tilt
4: Tilt fine	5: Dimme	er 6: Shutter
7: Focus	8: Iris	9: Cyan
10: Magenta	11: Yellov	v 12: Special

Manufacturer THEATRE PROJECTS

Scan type: SKYART DMX

Short name: SKYART

Movement: Head - Brightness Master on Dimmer

		3		
DMX channel order 1: Pan coarse 4: Tilt fine 7: Colour		Pan fine Dimmer	-	Tilt coarse Focus
Scan type: PAL (PP	TTF	FC)		Protocol: DMX 512
Short name: TP.PAL	-			
Movement: Head	No	Brightness Mas	ter	
DMX channel order 1: Pan coarse 4: Tilt fine		Pan fine Focus		Tilt coarse Colour

Manufacturer VARI*LITE

Scan type: VL1 Short name: VL1 Movement: Head - Brightness Master on Dimmer						
DMX channel orde 1: Dimmer 4: Color 1	2:	Pan Color 2	3: 6:	Tilt Iris		
Scan type: VLM MI	RRO	R MODE 3				
Short name: VLM N	/13					
Movement: Head	- No	Brightness Mas	ter			
	2: 5:	Pan fine Speed 1 (no used)	6:	Tilt Speed 2 (no used)		
Scan type: VLM MI	RRO	R MODE 4 EX				
Short name: VLM N						
Movement: Head	- No	Brightness Mas	ter			
DMX channel orde 1: Pan	r	Pan fine	3:	Tilt		
4: Tilt fine 7: (no used) 10: Rotation 1 13: Rotation 2	8:	Speed 1 (no used) : (no used)	9:	Speed 2 (no used) : (no used)		

Scan type: VL5 Mode 3 Short name: VL5 M3 Movement: Head - Brigh DMX channel order 1: Fixed=0 2: P	tness Master o		
1: Fixed=02: Paragram4: Tilt coarse5: Tilt7: Yellow8: M10: Rot.2=Resetxx: DPresets available. Free	mmer		
Scan type: VL5 Mode 4 Short name: VL5 M4 Movement: Head - Brigh		n D	immer
DMX channel order 1: Fixed=0 2: P. 4: Tilt coarse 5: Ti 7: Yellow 8: M 10: Speed1(Focus) 11: S 13: Rot.2=Reset xx: D Presets available. Free	an coarse It fine agenta peed2(Color) immer patch for D i	3: 6: 9: 12: imn	Pan fine Cyan Frost Speed3(beam) ner
Scan type: VL5 ARC Mod Short name: VL5A 3	e 3 16BIT		
Movement: Head - Brigh	tness Master o	n D	immer
DMX channel order 1: Dimmer 2: P- 4: Tilt coarse 5: Ti 7: Yellow 8: M 10: Rot.2=Reset Presets available.	an coarse It fine agenta	3: 6: 9:	Pan fine Cyan Frost
Scan type: VL5 ARC Mod	e 4 16BIT Ex	t.	
Short name: VL5 A 4			
Movement: Head - Brigh DMX channel order	tness Master o	n D	immer
1: Dimmer 2: P. 4: Tilt coarse 5: Ti 7: Yellow 8: M 10: Speed1(Focus) 11: S 13: Rot.2=Reset	an coarse It fine agenta peed2(Color)	3: 6: 9: 12:	Pan fine Cyan Frost Speed3(beam)
Presets available.			
Scan type: VL6 Mode 3 Short name: VL6 M3	16BIT		
Movement: Head - Brigh	tness Master o	n D	immer
	It fine	3: 6: 9.	Pan fine Gobo Focus
Scan type: VL6 Mode 4	16BIT Ext.		
Short name: VL6 M4		_	
Movement: Head - Brigh DMX channel order	tness Master o	n D	Immer
1: Dimmer 2: Pa 4: Tilt coarse 5: Ti		3: 6:	Pan fine Gobo
7: Color 8: Iri 10: Speed1(Focus) 11: S 13: Rot.2=Reset	s	9. 12:	Focus Speed3(beam)
13: Rot.2=Reset Presets available			
Scan type: VL6 Mode 5	16BIT		
Short name: VL6 M5		-	
Movement: Head - Brigh DMX channel order	tness Master o	n D	Immer
1: Dimmer 2: Pi 4: Tilt coarse 5: Ti 7: Color 1 8: Iri	lt fine	3: 6: 9.	Pan fine Gobo 1 Focus

Presets available



Scan type: VL6 Mode 6 16Bit Ext. Short name: VL6 M6 Movement: Head - Brightness Master on Dimmer DMX channel order Dimmer 2. Pan coarse Pan fine 1: 3: 4: Tilt coarse 5: Tilt fine 6: Gobo 1 7: Color 1 8: Iris 9. Focus 10: Shutter 11: Speed1(Focus) 12: Speed2(Color) 13: Speed3(beam) 14: Rotation 2 = Reset Presets available Scan type: VL6B Mode 5 16BIT Short name: VL6BM5 Movement: Head - Brightness Master on Dimmer DMX channel order 1: Dimmer 2 Pan coarse 3 Pan fine 4 5: Tilt fine 6: Gobo 2 Tilt coarse Iris Focus 8: 9. 7: Color 1 10: Shutter 11: Zoom 12: Gobo 1 14: Rotation 2 13: Rotaton 1 Presets available Scan type: VL6B Mode 6 16Bit Ext. Short name: VL6BM6 Movement: Head - Brightness Master on Dimmer DMX channel order Pan coarse 1: Dimmer 2: 3: Pan fine Tilt fine 6: 4 Tilt coarse 5: Gobo 2 Color 1 8: Iris 9. Focus 10: Shutter 11: Zoom 12: Gobo 1 14: Speed 1(Focus) 15: Speed 2(Color) 13: Rotaton 1 16: Speed 3 (beam) 17: Rotation 2 = Reset Presets available Scan type: VL7 Mode 7 16BIT Short name: VL7 M7 Movement: Head - Brightness Master on Dimmer DMX channel order Dimmer 2: Pan coarse 3. Pan fine 1. Cyan Color 1 4 Tilt coarse 5 Tilt fine 6: Yellow 9. Magenta 8: 7: 10: Iris 11: Focus (Lens) 12: Zoom 13: Shutter 14:Gobo 2 15: Gobo 1 16: Go Rot 1 17: Go Rot 2 Scan type: VL7 Mode 8 16BIT Ext. Short name: VL7 M8 Movement: Head - Brightness Master on Dimmer DMX channel order 1. Dimmer 2 Pan coarse 3 Pan fine 4: Tilt fine Cyan Tilt coarse 5: 6: 9. Color 1 12: Zoom Yellow 7: Magenta 8: 11: Focus (Lens) 10: Iris 15: Gobo 1 13: Shutter 14:Gobo 2 16: Go Rot 1 17: Speed 1 18: Speed 2 20: Go Rot 2 19: Special Scan type: VL7B M9-ADD EXTRAT Short name: VL7BM9 Movement: Head - Brightness Master on Dimmer DMX channel order Pan fine Dimmer Pan coarse 3: 1: 2: 5: Tilt fine Cyan Color 1 4: Tilt coarse 6: 8: Yellow 9. 7 Magenta 10: Focus 11: Zoom 12: Shutter 13: Gobo 1 14: Rotation 1 15: Speed 1 17: Special 16: Speed 2

Scan type: VL220X 16BIT STD.

Short name: VL220X

Movement: Head - Brightness Master on Dimmer

DMX channel order

Dimit offarminor of a of					
1: Dimmer	2: Pan	3: Pan fine			
4: Tilt	5: Tilt fine	6: Gobo 2			
7: Color 1	8: Iris	9. Focus			
10: Shutter	11: Zoom	12: Rotation 1			
13: Gobo 1	14:Special = Control				

Pan fine

Pan fine

Cyan Frost

3:

6:

9.

3:

Scan type: VL220X 16BIT ENHC

Short name: VL220E

Movement: Head - Brightness Master on Dimmer

DN	1X channel order		
1:	Dimmer	2:	Pan
1.	Tilt	F٠	Tilt fino

4: Tilt	5: Tilt fine	6: Gobo 2
7: Color 1	8: Iris	9. Focus
10: Shutter	11: Zoom	12: Rotation 1
13: Gobo 1		
14. Speed 1 - M	avamant Timing	

14: Speed 1 = Movement Timing 15: Color 2 = Color Timing

16: Speed 2 = Beam Timing

17: Special = Control

Scan type: VL2401 16BIT STD.

Short name: VL2401

Movement: Head - Brightness Master on Dimmer

DMX	channel	order	
	Chainer	Uluel	

1:	Dimmer	2:	Pan	3:	Pan fine
	Tilt	5:	Tilt fine	6:	Cyan
	Yellow		Magenta		Frost
10	: Shutter	11:	Zoom	12:	Special = Control

Scan type: VL2402 16BIT STD.

Short name: VL2402

Movement: Head - Brightness Master on Dimmer

DMX channel order

1:	Dimmer	2:	Pan	3:	Pan fine
	Tilt	5:	Tilt fine		Cyan
7:	Yellow		Magenta	9.	Color 1
10:	Frost	11:	Shutter	12:	Special = Control

Scan type: VL2401 16BIT ENHC

Short name: V2401E

Movement: Head - Brightness Master on Dimmer

DMX	channel	order
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1:	Dimmer	2:	Pan
4:	Tilt	5:	Tilt fine
7:	Yellow	8:	Magenta
10	Shutter	11.	Zoom

1	2:	Speed 1	= Movement	Timing

13: Color 2 = Color Timing

Scan type: VL2402 16BIT ENHC

Short name: V2402E

Movement: Head - Brightness Master on Dimmer

DM	X channel order				
1:	Dimmer	2:	Pan	3:	Pan fine
4:		5:	Tilt fine	6:	Cyan
7:	Yellow	8:	Magenta	9.	Color 1
	Frost		Shutter		
	Speed 1 = Move				
13:	Color 2 = Color 7	Гimi	ng		
14:	Speed 2 = Beam	ı Tin	ning		
15:	Special = Contro	ol			



^{14:} Speed 2 = Beam Timing

^{15:} Special = Control

Scancommander_

Scan type: VL2416 16BIT STD.							
Short name: VL2416							
Movement: Head - Brightness Master on Dimmer							
7: Yellow	2: Pan 3: Pan fine 5: Tilt fine 6: Cyan 8: Magenta 9. Focus = Beam 11: Rotation 1(Lens)						
Scan type: VL2416 16BIT ENHC							
Short name: V2416E							
Movement: Head - Brightness Master on Dimmer							
DMX channel order							

DIMA CHAINEI OTUC	/1					
1: Dimmer	2: Pan	3:	Pan fine			
4: Tilt	5: Tilt fine	6:	Cyan			
7: Yellow	8: Magenta	9.	Focus = Beam			
10: Shutter	11: Rotation 1	(Lens)				
12: Speed 1 = Mov	ement Timing					
13: Color 1 = Color	Timing					
14: Speed 2 = Beam Timing						
15: Special = Cont	rol					

Manufacturer X & Y

manaotaroi	<i>γ</i> . α	•		
Scan type: YOKY	XL			
Short name: YOKE	XL			
Movement: Head	- Bri	ightness Maste	er on D	Dimmer
DMX channel orde 1: Pan 4: Tilt fine	2:	Pan fine Dimmer		Tilt Focus
7: Color 1 Scan type: MN 400		 SH		

Short name: MN400W

Movement: Head - Brightness Master on Dimmer

DMX channel order				
1: Pan	2:	Pan fine	3:	Tilt
4: Tilt fine	5:	Dimmer	6:	Focus
7: Cyan		Magenta	9:	Yellow
10: Frost	11:	Speed 2	12	: Special

Scan type: MN 400 SPOT

Short name: MN400S

Movement: Head - Brightness Master on Dimmer

DMX channel order				
1: Pan	2:	Pan fine	3:	Tilt
4: Tilt fine	5:	Dimmer	6:	Iris
7: Cyan		Magenta	9:	Yellow
10: Gobo 1	11	Focus	12	: Speed 2
13: Special				

Scan type: MN 600 WASH

Short name: MN600WS

Movement: Head - Brightness Master on Dimmer

DMX channel order			
1: Pan	2:	Pan fine	3: Tilt
4: Tilt fine	5:	Dimmer	6: Iris
7: Cyan 10: Gobo 1	8:	Magenta	9: Yellow
10: Gobo 1	11	: Focus	12:Shutter
13: Speed 2	14	: Special	

Scan type: MN 600 SPOT

Short name: MN600S

Movement: Head - Brightness Master on Dimmer DMX channel order 1: 4: 7:

Scan type: BIM 1200

Short name: BIM120

Movement: Head - Brightness Master on Dimmer DMX channel order

Pan	2:	Pan fine	3:	Tilt
Tilt fine	5:	Dimmer	6:	Focus
Color 1	8:	(no used)	9:	(no used)
(no used)			12:	(no used)
(no used)	14:	Special		
	Tilt fine	Tilt fine 5: Color 1 8: (no used) 11:	Tilt fine5:DimmerColor 18:(no used)(no used)11:(no used)	Tilt fine 5: Dimmer 6: Color 1 8: (no used) 9: (no used) 11: (no used) 12:

Standard COLOR CHANGER

Stanuaru CO		L .						
Scan type: COL	+ EXTRA DIMMER	Short name: COL+ D						
No Movement:	- Brightness Mast	ter on Dimmer						
1: Color 1	: Color 1 EXTRA = Dimmer							
Scan type: RGB	+ EXTRA DIMMER	Short name: RGB + D						
No Movement:	 Brightness Mast 	ter on Dimmer						
1: Cyan EXTRA = Dimme	2: Magenta r	3: Yellow						
Scan type: RAIN	IBOW+EXT.DIMMER	Short name: CSFX + D						
No Movement:	 Brightness Mast 	ter on Dimmer						
1: Color 1 4: Speciale	2: Speed 1 EXTRA = Dimme	3: Speed 2 er						
Scan type: C1/C	2/D/G	Short name: STA C1						
No Movement:	- Brightness Mast	ter on Dimmer						
1: Color 1 4: Gobo 1	2: Color 2	3: Dimmer						
Scan type: C1/D)/G	Short name: STA C2						
No Movement:	- Brightness Mast	ter on Dimmer						
1: Color 1	2: Dimmer	3: Gobo 1						
Scan type: R/G/I No Movement:	B/D - Brightness Mast	Short name: STA C3 ter on Dimmer						
1: Cyan 4: Dimmer	2: Magenta	3: Yellow						
Scan type: Singl	e Colour	Short name: Colour						
No Movement:	- No Brightness M	Master						
1: Colour 1								

DIMMER

Scan type: SINGLE DIMMER Short name: DIMMER No Movement - Brightness Master on Dimmer DMX channel order 1: Dimmer

MA TEST

Scan type: TEST 1 24 Channels Short name: TEST 1 Movement: Mirror - Brightness Master on Dimmer DMX channel order Gobo 1 Color 2 1: 2: Gobo 2 3: Color 1 4: 5: Dimmer 6: Red 7: Gre 10: Iris Prisma Green 8: Blue 9: 12: Frost 11: Focus 14: Shutter 17: Special 20: Pr.-Rotation 15: Speed 1 18: Rotation 1 13: Zoom 16: Speed 2 19: Rotation 2 21: Pan coarse 22: Pan fine 23: Tilt coarse 24: Tilt fine



Controlling TRACKSPOT via the MA-Scancommander (Vers.4.xx)

1. Changing from Light Wave Research protocol to DMX 512

DMX input to all the lamps is via a 3pin XLR connector, where pin 1 to 3 correspond to pin 1 to 3 of the 5 pin XLR connector of standard DMX 512. Pin 4 and 5 of the DMX connector are not used. Attention: the pin order at the 3 pin connector is 1-3-2, whereas the 5 pin connector shows 1-2-3-4-5.

2. Personality setting for high resolution DMX

As the Scancommander enables you to set very exact DMX values, it is recommended to set the Trackspot to High Resolution mode.

			Pers	Scancommander					
	1	2	3	4	5	6	7	8	Lamptype
Trackspot (DMX 1-256)	-	-	ON	OFF	ON	-	-	-	TRACKSPOT
Trackspot (DMX 257-512)	-	-	ON	ON	OFF	-	-	-	"

3. DMX address

The DMX address of each scan has to be set

- via the address switches at the backpanel of the lamp and
- at the Scancommanders DMX patch menu.

Unlike setting the address for the Lightwave Research Controller, the address at the lamp has to be decoded binary.

That means,

switch number 1 has the value 1 switch number 2 has the value 2 switch number 3 has the value 4 switch number 4 has the value 8 switch number 5 has the value 16 switch number 6 has the value 32 switch number 7 has the value 64 switch number 8 has the value 128

Choose any DMX number and patch the scan to this address at the Scancommanders DMX patch menu. Substract 1 from this number and set to "ON" as many switches as necessary to get this number as the total of the values.

I.E.: Scan patched to DMX channel 75 in the Scancommander patch menu.

Substract 1 = $\underline{74}$ Switch 7 ON = 64 Switch 4 ON = 8

Switch 2 ON = 2, all other address switches OFF

To address channels 257 to 512 set personality switch 4=on,5=off, substract 256 and go on like above.

4. Preset values for colors, gobos and shutter

Initializing the Trackspot in the Scancommanders Setup menu by "INIT:SCANS+NAMES+VALUES" will load the names and values of all colors and gobos.

The motor speed, channel 7 of the Trackspot DMX protocol, is controlled via the SPEED button at the Scancommander. Using the Scancommander it is recommended to keep this value at "00", as fades can be controlled via the Scancommanders fade features.

Controlling INTELLABEAM via the MA-Scancommander (Vers. 4.xx)

1. Changing from Light Wave Research protocol to DMX 512

DMX input to all the lamps is via a 3pin XLR connector, where pin 1 to 3 correspond to pin 1 to 3 of the 5 pin XLR connector of standard DMX 512. Pin 4 and 5 of the DMX connector are not used.

Attention: the pin order at the 3 pin connector is 1-3-2, whereas the 5 pin connector shows 1-2-3-4-5. (Some of the older Intellabeam 400 don't accept DMX 512, even when it is printed on the backpanel. For this lamps please ask for a lamp update eprom at your High End dealer.)

2. Personality setting for high resolution or extended DMX

As the Scancommander enables you to set very exact DMX values, it is recommended to set Intellabeams to High Resolution on the 7 channel mode, or you may use the 13 channel mode of "Extended DMX". This gives you:

- better resolution on Pan / Tilt
 - direct access to the Gobo and Color spin functions
 - access to the homing (via SPECIAL in the SPEED menu) and speed function (via SPEED 1).

To run the Intellabeam 700 in the 13 channel mode, this lamps need to have the actual software version ML25F Ver.3.04 (already installed in most Intellabeams 700 delivered since beginning 93).

	Personality Switch Setting							Scancommander		
	1	2	3	4	5	6	7	8	Lamptype	
Intellabeam(DMX 1-256) - Intellabeam(DMX 257-512)	-	ON -	OFF OFF	••••	OFF ON	- OFF	OFF -	INTELL/ OFF	ABEAM 7 CHAN "	
Intellabeam(DMX 1-256) - Intellabeam(DMX 257-512)	-	ON -	OFF OFF	OFF ON	ON OFF	- ON	ON -	INTELLA ON	BEAM 13 CHAN "	

3. DMX address

The DMX address of each scan has to be set

- via the address switches at the backpanel of the lamp and
- at the Scancommanders DMX patch menu.

Unlike setting the address for the Lightwave Research Controller, the address at the lamp has to be decoded binary.

That means, switch number 1 has the value 1 switch number 2 has the value 2 switch number 3 has the value 4 switch number 4 has the value 8 switch number 5 has the value 16 switch number 6 has the value 32 switch number 7 has the value 64 switch number 8 has the value 128

Choose any DMX number and patch the scan to this address at the Scancommanders DMX patch menu. Substract 1 from this number and set to "ON" as many switches as necessary to get this number as the total of the values.

I.E.: Scan patched to DMX channel 75 in the Scancommander patch menu.

- Substract 1 = 74
- Switch 7 ON = 64
- Switch 4 ON = 8

Switch 2 ON = 2, all other address switches OFF

To address channels 257 to 512 set personality switch 3=off,4=on, substract 256 and go on like above.



4. Preset values for colors, gobos and shutter

Initializing the Intellabeam in the Scancommanders Setup menu by "INIT:SCANS+NAMES+VALUES" will load the names and values of all colors, gobos and some dimmer and shutter settings.

Using the Extended DMX mode, the motor speed, channel 12 of the Intellabeam DMX protocol, is controlled via the FOCUS-ZOOM button at the Scancommander. Using the Scancommander it is recommended to keep this value at "00", as fades can be controlled via the Scancommanders fade features.

5. Slow color or gobo changes on the 13 channel mode

To get slow changes of colors or gobos

- set WHEEL 2 of color or gobo to a value about 20 (little before the gobo or color scan function starts)

- set the speed via SPEED 1 to any value above "10"
- recall colors or gobos at the Scancommander without fade, rsp. store the memory with color and gobo set to "TRIG" instead of "FADE" (=remove ramp on the store matrix)

This procedure will give the slow changes on color or gobo, but will also influence the movement speed.

6. Homing function

When using the Extended DMX mode, the homing function can be addressed via the SPECIAL function in the SPEED menu of the Scancommander.

Homing the lamp is done by setting the SPECIAL channel to 50% for at least 3 seconds.

- Press SPECIAL at the feature selection area.
- Select one or more scans via the SCAN SELECTION buttons
- Set the values to "00" via the Encoder wheel
- Set the values to "50" via the Encoder wheel.
 (If the display is set to hexadecimal showing...,09,0A,0B..,the 50% value corresponds to 7F)
 After 3 seconds the scans should start their homing procedure.

Controlling CYBERLIGHT via the MA-Scancommander (Vers. 4.xx)

1. Changing from Light Wave Research protocol to DMX 512

DMX input is via a 3pin XLR connector, where pin 1 to 3 correspond to pin 1 to 3 of the 5 pin XLR connector of standard DMX 512. Pin 4 and 5 of the DMX connector are not used. Attention: the pin order at the 3 pin connector is 1-3-2, whereas the 5 pin connector shows 1-2-3-4-5.

All personality switches stay 0, just setting address switch 8 to on will change to DMX.

2. DMX address

Unlike Trackspot or Intellabeam, the Cyberlight DMX address is set like on Lightwave Research protocol, switch 8 always has to be on for DMX 512.

Switch 1 to $8 =$	0	0	0	0	0	0	0	1	=lamp 1	DMX adress 1
	1	0	0	0	0	0	0	1	=lamp 2	DMX adress 21
	0	1	0	0	0	0	0	1	=lamp 3	DMX adress 41
	1	1	0	0	0	0	0	1	=lamp 4	DMX adress 61
	0	0	1	0	0	0	0	1	=lamp 5	DMX adress 81

3. Accessing the Control Channel

The Control function can be addressed via the SPECIAL function in the SPEED menu of the Scancommander. - Select one or more scans via the SCAN SELECTION buttons

Controlling the lamp is done in three steps:

-Step 1:	Dimmer channel at full	(FF)
	Special channel at full	(FF)

- -Step 2: Dimmer channel at Zero (00) Special channel at full (FF)
- -Step 3: (must occur within 3 seconds) Dimmer channel at Zero (00) Special channel at 25% (3F) for "Home" or Special channel at 50% (7F) for "Shutdown"

As this three steps have to be done within 3 seconds, please store this settings as presets (see cap 3.2.2 of the Scancommander manual). The brightness Master of this scans have to be up during this steps.

After further 3 seconds the scans should start the selected function.



Safety Instructions:

- 1. Read all the instructions in the user's manual.
- 2. Keep the user's manual for later use.
- 3. Follow all the instructions on the unit.
- 4. Pull the plug before cleaning the unit; don't use any liquid or spray cleaner. Clean with a damp cloth.
- 5. Don't use the unit near water.
- 6. Don't put the unit on unstable tables etc.. It might fall down and get damaged.
- 7. There are slots in the case for aeration; don't cover these slots up because they guarantee the reliable use of the unit and protect it against overheating. Don't install the unit into a frame unless sufficient aeration is guaranteed.
- 8. The unit is provided with a safety plug. This plug can only be used with safety sockets. These safety measures should by all means be followed. In case the plug doesn't fit into the socket (e.g. with old sockets), the socket should be replaced by an electrician.
- 9. Don't put any objects on the wire and make sure nobody steps on it.
- 10. In case you use an extension wire make sure the sum of the power consumption of the connected units does not exceed the maximum power of the wire. The sum of the units plugged in the socket should not exceed 10 Ampere.
- 11. Don't spill any liquid over the unit. Don't put any objects through the slots of the unit, as these might get in contact with parts that are live or might cause short circuits. This may cause fires and shocks.
- 12. Don't service the unit yourself as parts that are live might be exposed when you open the case; you run the risk of getting shocked. All services should only be carried out by a specialist.
- 13. If one of the following conditions occurs, please pull the plug out and call the service:
 - A. Wire or plug is damaged or worn.
 - B. Liquid got into the unit.
 - C. The unit was exposed to rain or got damp.
 - D. The unit doesn't work properly even if you follow the instructions of the user's manual.
 - E. The unit fell down and the case was damaged.
- 14. Only use wires which are marked safety proof.
- 15. Don't use any high-power walkie-talkies near the unit.

DECLARATION OF CONFORMITY

according to guide lines 89/336 EWG and 92/31 EWG:

Name of producer:	MA Lighting Technology GmbH
Address of producer:	Dachdeckerstr. 16 D-97297 Waldbüttelbrunn
declares that the product	
Name of product:	MA Scancommander & MA Scancommander Extension
Type:	MA SC1 & MA SCX I

answers the following product specifications:

Safety: EMV (EMC): EN60065, EN60950 prEN55103-1 (E1), EN50081-1 prEN55103-2 (E2), EN50082-1

Additional informations:

All DMX512 and analogue inputs and outputs must be shielded and the shielding must be connected to the ground resp. to the case of the corresponding plug.

Waldbüttelbrunn, 07.11.1995

A. Jum

Dipl. Ing. Michael Adenau