<u>1</u> CHAPTER 1: Introduction

Thank you for selecting a Martin Case light controller. Martin Case light controllers offer an enormous variety of tools helping light designers to create their most fabulous shows in no time.

Originally, the controllers were designed to be used in combination with moving lights.

Today they can be used in the small disco club as well as on the big concerts. From this software version, they offer the possibilities for the best theatrical jobs.

An enormous advantage is the software. You have to know only one software version to control all Martin Case light controllers. From the smallest version, the Pro 1, to the most extended version, the Pro 2 Plus, the same software is used. All functions available on the Pro 2 Plus are also available on the Pro 1, only the access on the Pro 2 Plus is more direct and easier to use.

Time pressure, no problem. The built-in Effects Generator saves a lot of programming time. Furthermore, you have always direct access to each function of every fixture. There have been spectacular shows in the past performed 'on the fly' with only some basic programming.

<u>1.1</u> Features

Hardware

	Pro 1 (*)	Pro 2 (*)	Pro 1+	Pro 2+
Protocols	DMX-out DMX-in	DMX-out DMX-in	DMX - out DMX-in	DMX-out DMX-in
Channels (standard/Max)	512/1536	1024/2048	512/1536	1024/2048
Grand master	1	1	1	1
Flash master	1	1	1	1
Programmable sub-master	2	2	2	2
Playback analogue faders	10 (**)	10 (**)	42	42
Sequence digital faders	-	12	-	12
Functions digital faders	-	16	-	16
Extra keys for: Timing/playback mode/ Direct access (***)	-	-	Yes	Yes
SMPTE/MIDI	Option	Standard	Option	Standard
CD-ROM	Option	Standard	Option	Standard
Hard disk - Floppy disk	1 - 1	1 - 1	1 - 1	1 – 1
Trackerball (on/off toggle)	1	1	1	1

- (*) When the Pro 1 and the Pro 2 controllers are connected through the LINK with a **Playback Wing**, they will have the same functionality as their +version with the exception of the amount of channels.
- (**) The 32 extra playbacks are accessible through an external midi keyboard.
- (***) Those functions can be controlled on the Pro 1 en Pro 2 controllers, but a bit more time-consuming.

Software

FIXTUES

- Up to 700 fixtures with max 32 channels per fixture
- Library of more than 300 fixture types, grouped per manufacturer
- LEE®, ROSCO®, GAM® filter library for CMY (RGB) fixtures
- Extended dip-switch information of the fixtures
- Repatch possibilities
- Protected functions like (reset, lamp-off, lamp-on)
- Direct access on each channel of every fixture
- Extended functions for dimmer-channels like: Dimmer-curves, multi-patch and extended accessibility of dimmer-channels
- Possibility to group fixtures over 2 x 16 groups
- Adjustable DMX-timings for all outputs

PRESETS (70 x 4 types with extended functions)

- Pan/Tilt: includes Pan/Tilt, focus and dimmer information.
- Gobo: includes 4 gobo-wheels, 4 gobo-parameter fields, knifes (PAL1200), iris, focus, zoom and prism information.
- Color: includes 4 color-wheels, color-parameter field, RGB and dimmer information.
- Effect: includes all possible effects generator parameters.
- Every function can be enabled or disabled.

MEMORIES

- Maximum 4000 memories
- Every memory can include information of 700 fixtures of up to 32 channels, with their effects generator parameters and their timing parameters
- Changes in preset-values are automatically recorded in the memories, if the memories are built with presets
- Can be changed at any time
- Can be used in sequences and playbacks and can be called separately.

CUES

- Maximum 11,200 cues
- Per main-cue, 9 point cues
- Each cue can hold 1 cue-memory, 4 sequences and 42 playbacks
- Have transparent possibilities so that an activation of an other cue results in replacing only the programmed functions (sequences, playbacks, cue-memory) of the activated cue
- Have link possibilities to other cues

CUE MEMORY

- Every cue-memory can include information of 700 fixtures of up to 32 channels, with their effects generator parameters and their timing parameters. The timing-parameters can be applied on the cue-memory or on every single channel separately:
 - **Delay-in** time
 - Fade-in time
 - Delay-out time
 - Fade-out time
 - Link time
- o Multi-select cue, or activating several cues simultaneous
- Auto-prepare cue-memory: when the dimmer closes in one cue, the controller will look ahead and execute all programmed non-dimmer channels until he finds a cue where the dimmer opens again.
- Auto-trace: when a cue is activated, the controller will gather all missing channels in descending cue order.
- SEQUENCES
 - Up to 4 sequences per cue
 - Each sequence can hold 1 start-memory, 100 loop memories and 1 stopmemory
 - Have separate fade and wait-times.
 - Can be activated/deactivated separately
 - Can run forwards, backwards, in bounce (forwards and backwards) or at random.
 - Can be mutual synchronized
 - Possibilities for auto-trigger, manual trigger and triggering in 'learn the beat mode' (beat-step mode)
 - Linking possibilities to other cues
- PLAYBACKS
 - A playback is a memory to fade-in manually with:
 - A fader
 - A flash key
 - Flash key functions:
 - Flash: with fade-in and fade-out time (adjustable separately)
 - Toggle: with fade-in and fade-out time (adjustable separately)
 - Kill: with fade-in and fade-out time (adjustable separately)

EFFECTS GENERATOR

- Up to 7 functions (10 for Pan/Tilt) per channel per fixture adjustable:
 - Level, swing, speed, mode, delay, shift, wait (for non-Pan/Tilt channels).
 - x-swing, y-swing, speed, mode, figure1, figure2, rotate, delay, shift, wait (for Pan/Tilt channels).
- On Pan/Tilt channels, there is a choice out of a library of 49 different motion-patterns.
- Pre-programmed combined effects with the effect macro functions like: Pan/Tilt effects combined with dimmer effects or rainbow effect for RGB (CMY) fixtures.
- Possibility to spread the effect over more fixtures.

OTHER FUNCTIONS (overview)

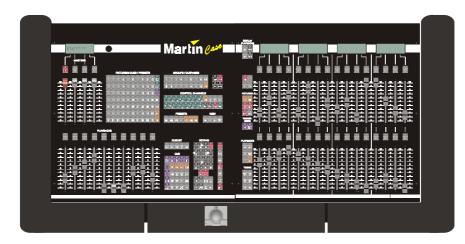
- 1 Grand master
- 1 flash master
- 2 programmable sub-masters
- Time-code
 - Show-programming on time-code: SMPTE, CD-ROM, Internal clock or manual.
- Midi
 - Triggering of cues, cue-memories, sequences or playbacks through midi-codes.
- Direct access of fixture-channels resulting in fast programming of colors, gobos, functions... Direct access with digital fader belts on Pro 2 or Pro 2+ controllers.
- Absolute or relative programming of channel-values.
- Solo function for channel adjusting on the bigger shows.
- Freeze function to freeze fixtures, sequences, playbacks and cue-fading.
- Manual override mode
- Gel filter choice on filter number for RGB (CMY) fixtures
- Extended copy possibilities for memories and cues
- Extended load and save function to load or save shows
- Possibility to read memories from other controllers through DMX-IN
- Possibility to link MartinCase controllers (up to 41 with playback wing, up to 113 without) through DMX-IN
- Print or export possibility of stage layouts or patch lists.

<u>1.2</u> Models

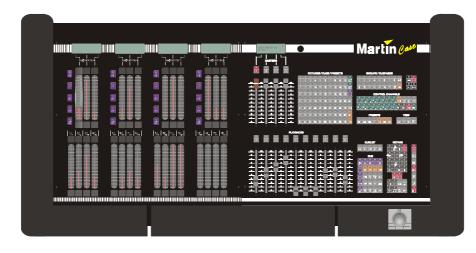
Pro 1



Pro 1+



Pro 2

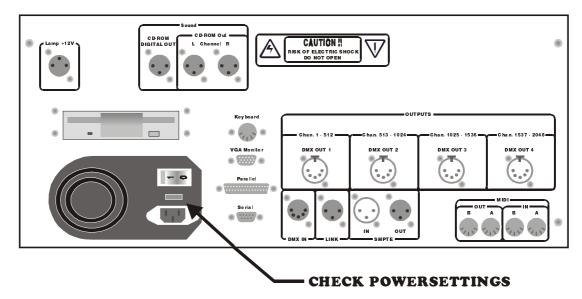


Pro 2+

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<u>1.3</u> Connecting

WARNING: Adjust the voltage setting of your controller to your local AC power supply before applying power.



Connect the power cable to AC power

Connect a standard VGA monitor to the 'VGA Monitor' output and connect its power. Note: Some controllers don't have a power output for the monitor.

Connect a standard PC keyboard (big connector) to the 'Keyboard' input.

Connect a data cable between the DMX or Martin output of the controller and the fixtures.

Note: Martin Case controllers use a 5-pin XLR connector for the DMX signal. With the controller comes a 5-pin to 3-pin inverting and non-inverting adapter. See the table below for the pin-connections.

DMX pin connections	GND	Signal – (cold)	Signal + (hot)
5 PIN XLR output controller	PIN 1	PIN 2	PIN 3
3 PIN XLR output adapter inverted	PIN 1	PIN 3	PIN 2
3 PIN XLR output adapter non-inverted	PIN 1	PIN 2	PIN 3

Connect the supplied gooseneck lamp to the output (Lamp +12V)

Switch ON

<u>1.4</u> Connections

Lamp +12V

Connection for a Gooseneck lamp (12V).

Lamp +12V	GND	+12V
3 Pin XLR	PIN 3	PIN 2

CD-ROM Digital out

Digital sound output of the build-in CD-ROM player.

CD-ROM Digital out	GND	Signal
3 Pin XLR	PIN 1	PIN 2

CD-ROM OUT L and R

Analogue sound output left (L) and right (R) of the build-in CD-ROM player.

CD-ROM L and R	GND	Signal
3 Pin XLR	PIN 1	PIN 2

DMX OUTPUT

DMX output for connection with the fixtures. Depending on the controller-type, there are 1, 2, 3 or 4 DMX outputs.

DMX	GND	Signal -	Signal +
OUTPUT		(cold)	(hot)
5 Pin XLR	PIN 1	PIN 2	PIN 3

DMX INPUT

DMX input to read DMX signals coming from other controllers.

DMX	GND	Signal -	Signal +
INPUT		(cold)	(hot)
5 Pin XLR	PIN 1	PIN 2	PIN 3

LINK OUTPUT

LINK output for connection with an extra playback wing.

LINK	GND	Signal -	Signal +
OUTPUT		(cold)	(hot)
3 Pin XLR	PIN 1	PIN 2	PIN 3

SMPTE IN - OUT

SMPTE in and output for time-code controlling of shows.

SMPTE INPUT OUTPUT	GND	Signal
3 Pin XLR	PIN 1	PIN 2

MIDI IN (A, B) OUT (A, B)

Standard MIDI in and outputs (channels A and B) to connect external MIDI devices.

MIDI IN	GND	Signal
5 pin DIN	PIN 4	PIN 5

MIDI OUT	+5V	Signal	Screen
5 pin DIN	PIN 4	PIN 5	PIN 2

Keyboard

Connection for a standard PC keyboard (5 pin DIN connector).

VGA Monitor

Connection for a standard VGA monitor.

Parallel

Connection for a printer.

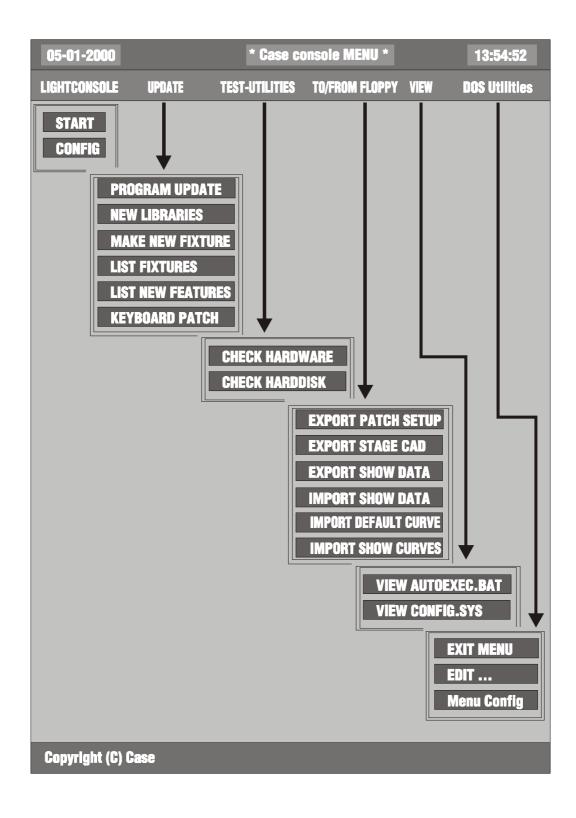
Serial

To connect an external serial device like a mouse.

<u>2</u> <u>CHAPTER 2: Menu</u>

2.1 Overview

When the main controlling program (logicase) is left with [SHIFT] [SETUP] (hold during 2 sec) next menu will appear:



2.2 LIGHTCONSOLE

START

This option starts the main controlling program (logicase) again. CONFIG

To configure the system. When for example a DMX interface is added to the controller, to expand the amount of DMX channels, it is necessary to run the configuration.

When this option is selected, next menu will be shown:

CONFIGURATION LIGHTCONSOLE CONFIGURATION CASECARDS AUTOMATIC CONFIGURATION CHECKING CONFIGURATION **CHANGE PASSWORD**

Configuration lightconsole

To enable or disable functions like master faders, playback faders, digital faders, speaker etc...

Configuration Casecards

Some older fixtures may react strange on the controllers DMX signal. With this option, all DMX timings can be adapted. WARNING: IF YOU ARE NOT FAMILIAR WITH DMX, DON'T CHANGE ANYTHING HERE, the possibility exists that all fixtures will behave badly. To avoid this, the option is protected by a password (telesoft). If however, the options are changed, use the menu-item automatic configuration to default the DMX values.

This option is also used to prepare shows to be used on controllers with more DMX channels. You won't be able to control the fixtures, but the complete show can be prepared.

Automatic Configuration

Is used to repair the configuration of the controller or to upgrade the number of DMX channels when an extra DMX interface is added to the controller.

Checking Configuration

To test the configuration of the controller.

<u>2.3</u> UPDATE

PROGRAM UPDATE

To update the controller with new software: put the floppy(ies) with the new version in the floppy-drive and use this option.

The controller will automatically make a backup of the old version and will install the new version. The option 'List new features' gives an overview of new items. RESET the controller after updating.

Rem. : Regularly check both sites below for new software versions: http://www.martin.dk Or the Case site: http://www.caseconsole.com

Please follow the instructions on the site to install new versions.

NEW LIBRARIES

Each month new fixtures are added to the library. The latest libraries are always accessible on the Martin or Case sites. The option 'List fixtures' gives an overview of all fixtures installed in the controllers library.

Rem.: A library update will always update all fixtures.

MAKE NEW FIXTURE

Not yet in use.

KEYBOARD PATCH

After a software update or after a complete new installation, the keyboard patch file of the controller may be changed too. This causes some keys like the grand master flash key to behave strange, sometimes the front panel keyboard may be mixed up on older controllers. Use this option to select another keyboard patch file.

If an older controller was upgraded with the playback wing link, and the playback keys don't work, select in this option keyboard 4.

2.4 TEST-UTILITIES

CHECK HARDWARE

To check the hardware functions of the controller.

CHECK HARDDISK

To check the internal hard disk on errors.

2.5 TO/FROM FLOPPY

EXPORT PATCH SETUP

To copy the patch setup, exported in the SETUP (see chapter SETUP) to a floppy. The file can be used on a Windows PC.

EXPORT STAGE CAD

To copy the STAGE LAYOUT in BMP format, exported in the SETUP (see chapter SETUP), to a floppy. The file can be used on a Windows PC.

EXPORT / IMPORT SHOWDATA

In rare occasions, on very big shows, a message 'NOT ENOUGH DISKSPACE' can appear on the screen when saving a show to a floppy. If this happens, use this menu option to save the show on multiple floppies.

To load a show from multiple floppies, use the import option.

IMPORT DEFAULT CURVE/ IMPORT SHOW CURVES

With the Windows program 'Logicurve', dimmer curves can be adapted externally. Use this option to import the curves. If the default option is used, the curves are used with every new show. If the **show** option is used, only the current show will use the curves.

The Windows program 'Logicurve' can be downloaded free on both earlier mentioned sites.

2.6 VIEW

To view the system files of the controller.

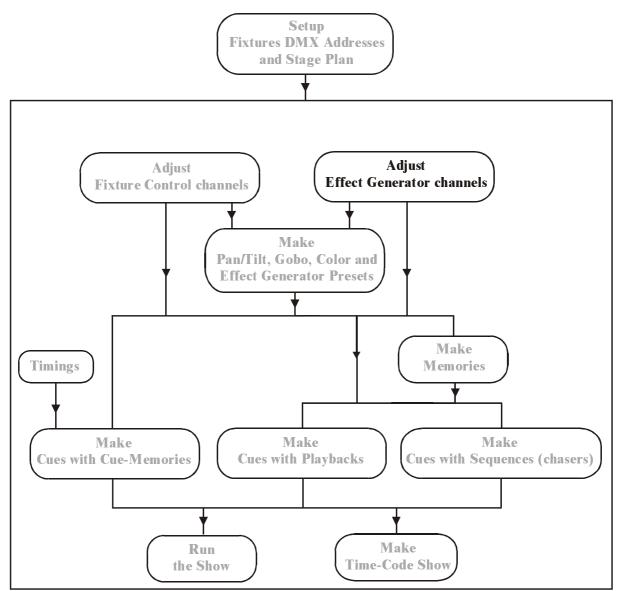
2.7 DOS UTILITIES

To edit files and to leave the menu.

<u>3</u> <u>CHAPTER 3: Using the manual</u>

<u>3.1.</u> Overview

Each chapter begins with a diagram to show you which point you have reached when you are studying the controller.



This example shows that the chapter explains the effects generator.

<u>3.2.</u> Experienced user or beginner

In this manual, we try to group everything per chapter. Because of this, it can happen that sometimes items, difficult to understand for new users, will be explained. New users are advised to skip those items until he has some experience in using the controller. The sign **{EXP}** in the margin or in the heading of the chapter stands for experienced user and it means that the item or the chapter is only to be read by experienced users.

3.3. Use of the keys and the denotation in this manual

The denotation of a key: [*KEY*]

When an item has been explained in a previous chapter, a description will replace the key actions:

[Description]

A PLUS sign between the keys will mark that more keys have to be selected simultaneous: [KEY 1] + [KEY 2]

If the keys have to be selected one by one, they will be separated by a **space: [KEY 1] [KEY 2]**

Some keys have the same function or meaning, like the big key matrix beginning with key 1 and ending with key 70. Those are denoted as:

[1...70]

This means, 'press one of the keys in the key matrix 1, 2, 3,, 70 (Fixtures/Cues/Presets)'

[1...16]

This means, 'press one of the keys in the key matrix 1, 2, 3, ..., 16 (Groups/Cuepages)'

[1/17...16/32]

Means: 'press one of the keys in the key matrix [1/17] ... [16/32] (Control channels)'.

Some of the keys like the [CLR] or the [P&T] key, can be found more than once on the front panel keyboard. To indicate the correct key, an explanation is given between brackets (). [CLR (Presets)]

An example:

[1...70] [1...70] [1...70]

Select some keys in the key matrix 1...70. This is the same as: select some fixtures (see chapter 'fixtures and control channels'). Since we know now how to select fixtures, the next paragraph won't explain this again and the fixture selection is indicated by:

[Select fixtures] [STORE (groups/cuepages)] + [1...16]

So this means: select some fixtures and press the [STORE] key (in groups/cuepages) simultaneous with on of the key in the key matrix 1...16.

3.4. Keyboard help

The controller keyboard is equipped with a **build-in HELP function** by means of LEDs. Every time when a function is called, the LEDs of the keys, which can be used with this function, will blink.

Example: Select the *[EDIT* (CUES)*]* key. All LEDs of the keys involved in the edit function will blink orange.

3.5. Important remarks and actions to be taken

Bold marked texts indicate an important remark or a tip. *Bold and italic or italic* texts indicate an action to be executed by the user.

3.6. Overview

The 'appendix' of this manual holds some fold up pages with an overview of the front-panel keys of the controller.

3.7. Example show

There are 2 example shows:

The first show 'getstart.cmp' gives examples for the 'getting started' manual.

The second show 'manual72.cmp' holds the examples for this manual.

If an MSD (Martin Show Designer) is connected to the controller, all examples can be seen 'in live'. For both shows, an MSD version is available.

Loading of the example show 'MANUAL72':

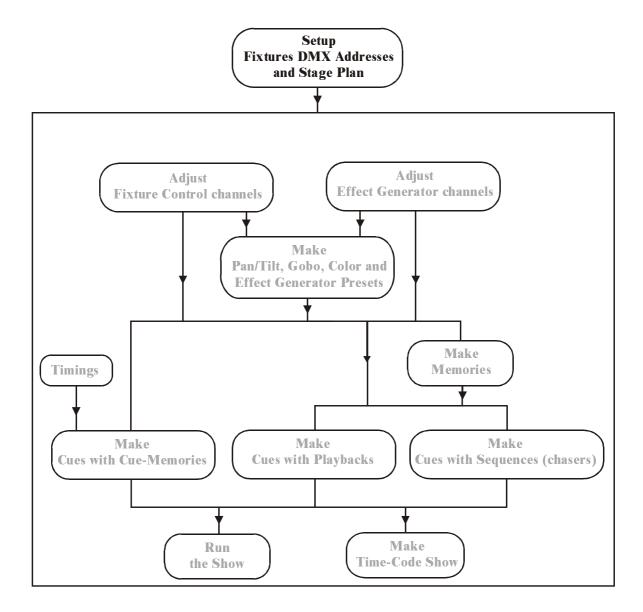
When the main program is started, load the show by pressing the [LOAD] key.

- Step 1: Press *[LOAD* (hold for 2 secs)*]*. In the lower left corner of the screen, next message will appear: '1 = LOAD INTERNAL 2 = LOAD EXTERNAL'
- Step 2: Select [1 (keypad)] to load the show from the internal hard disk or select [2 (keypad)] to load the show from a floppy disk.

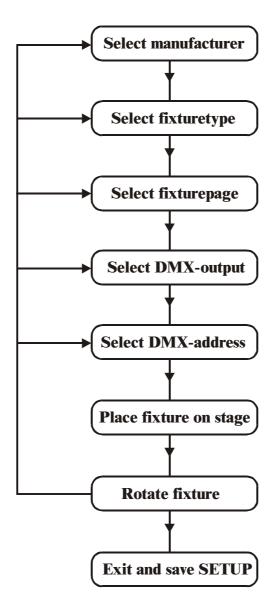
Step 3: *Type the name MANUAL72 or highlight the name MANUAL72 using the* $[2\downarrow]$ *key.*

Step 4: *Press* [*RET*] (in case you've used the $[2\downarrow]$ key press 2 x [*RET*]). The show will appear within a few seconds.

4 CHAPTER 4: The Setup



SETUP BASICS



<u>4.1. Start-up</u>

When the controller is powered on, or when the option **'START'** is chosen from the menu, the main-program will show up.

To control lights with the controller, first the STAGE has to be built. The corresponding fixtures with their corresponding DMX addresses have to be set up.

The **SETUP** program is used to:

- modify the start-up options of the main program
- draw the stage layout
- set up the fixtures from the library
- set up fixture addresses
- re-patch fixture channels and fixture numbers
- select the dimmer curves for dimmer channels
- activate/deactivate dimmer channels for dimmer programming
- link controllers
- select the RGB (CMY) library
- print and export the patch setup and the stage layout

[SETUP]

The setup program is started from the main program by selecting the *[SETUP]* key (hold it during 2 sec).

2 key LEDs will start blinking now on the keypad. There are 2 possibilities:

- Select [1] to start the fixture setup program
- Select [2] to modify the start-up options and the default values for the main program

If option [1] is selected, the screen below will appear:



<u>4.2. Set up fixtures</u>

<u>4.2.1</u> Fixture library

AVAILABLE LIBRARIES V 7.10.06
MARTIN
АМРТОЫН
CASEFIXTURES
CLAY PAKY 🗸 🗸
AVAILABLE TYPES
MAC 600 DMX MODE 2
MAC 600 DMX MODE 4
MAC EXTERIOR 600 M2
MAGNUM 2000
MARTIN DMX-MOTORS
MARTIN MOTOR CONTROL

To place a fixture on the stage, the fixture has to be chosen from its library.

First select a fixture page with the [Fixture PgUp] or [Fixture PgDn] keys. (There is a choice between 10 pages of 70 fixtures).

Then select a manufacturer, *for example Martin*, and select a fixture type.

Suppose we will build a stage with 6 MAC600 in mode .4

4.2.2 Fixture Information Window

FIXTURE IN	FORMATION
MAC 600 D	MX MODE 4
1 STROBO	17
2 DIMMER	18
3 CYAN 🔰	19
4 MAGENTA	20
5 YELLOW	21
6 COLOR	22
Z BEAMCHP1	23
8 BEAMSHP2	24
3 PAN 🔰	25
10 PAN FINE	26
11 TILT 🛛	27
12 TILT FIN	28
13 P/T SP	29
14 D/C SP	30
15	31
16	32

From the moment, the fixture type is selected, its fixture channels will appear in the 'Fixture Information' window.

In this example, a MAC600 (mode 4) was selected. This fixture has 14 functions or channels. A yellow square behind the channel indicates that the channel has fading possibilities

4.2.3 Interface window

CASE-INTERFACE						
1	2		4			
	PROT	OCOL				
DMX (DMX OUT GOLDSCAN					
MARTIN						

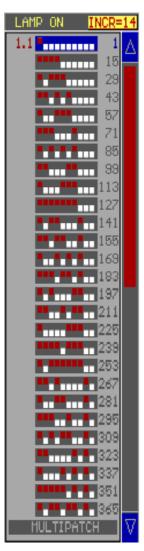
This window reveals the INTERFACE outputs and for older controllers also the PROTOCOLS. *Select with the trackerball an output and a protocol.* Output 1 is the same as channels 1 to 512, output 2 = channels 513 to 1024, output 3 = channels 1025 to 1536 and output 4 = channels 1537 to 2048.

A yellow box denotes the selected output, a gray box means a possible choice and a black box indicates that the option is not installed.

Rem. 1: It is not always possible to select a protocol, since the protocol depends on the fixture type. Also, on new controllers, only the DMX OUT protocol is available.

Rem. 2: Depending on the configuration, all output boxes may be gray, indicating that all outputs are available, but as explained in the menu chapter, a controller can be set up for 2048 channels with only 1 physical output available.

4.2.4 Dipswitch window



From this window, the fixture addresses are selected. The dipswitches represent address switch positions on the fixtures. New fixtures today use displays.

The **numbers on the left** represent the **fixture patch number**, as they appear in the stage layout window, and the **stage page** or fixture page where it is placed.

Patch number.Stage page

The **numbers on the right** represent **fixture addresses.** The addresses increase per number of fixture channels. By clicking the *INC=14* box, the addresses will increase by 1 (the box will show INC=1).

When the fixture type, the output and the protocol are selected, *slide with the trackerball over the dipswitches*. When the dipswitch address corresponds with the physical fixture address, the fixture will respond with a Pan/Tilt at half its values, dimmer open, no gobo and no color. A gray box indicates an address not selected yet, a light blue box indicates a partially used address section and a dark blue box indicates that the address section is completely taken.

There is a second option to select the address by means of the keypad: select: [@] number [RET].

If the fixture is equipped with a lamp-on/off function, the command LAMP ON is executed by selecting the *LAMP ON* box before the fixture address is chosen.

4.2.5 {EXP} <u>Multipatch/Softpatch</u>

From this software version (7.20), there are **multipatch or softpatch** possibilities for certain fixture types like dimmers (out of the dimmerpacks library) or spots (out of the spots library). There are also some fixture types, like the VL5, that have a dimmer channel that is separately addressable. When those types are selected, the softpatch window will open automatically.

Multipatch/Softpatch gives the possibility to:

- individually address all channels of a dimmerpack
- assign multiple addresses to one singe dimmerchannel



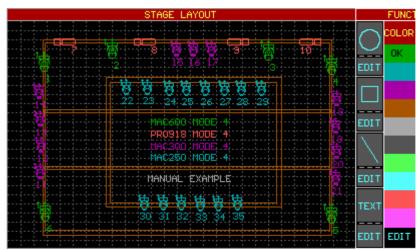
When a dimmer or spot is taken, and instead of selecting an address, the *MULTIPATCH function is activated*, a softpatch window will open.

Place the fixture somewhere in the Stage window. Select a channel from the fixture information window and select ADD CHANNEL. Assign an address (see previous paragraph) to the channel. The channel will appear in the softpatch window. With the **add channel** function, multiple addresses can now be assigned to one single channel. If an

address has to be deleted from the window, select its address line in the softpatch window and click the **DELETE CHANNEL**.

A quick and shorter method to assign addresses: Select a channel from the fixture information window and press [@] [address (keypad)] [RET] or in case addresses 10 to 20 need to be assigned to the channel: [@] [10 (keypad)] [THRU] [20 (keypad)] [RET]

4.2.6 Stage window



It is important that the **Pan/Tilt directions of the fixture correspond with the directions made with the trackerball.** To apply this correspondence the fixture can be turned in 9 possible positions with the keypad keys [1...9]. The fixture is now ready to be positioned somewhere on the stage by confirming its position with the left trackerball key.

It is always possible to move the fixture by re-selecting it in the stage window.

When the same fixture type, with successive addresses, has to be set up, it is faster to select the *[next] key after assigning the first address to the first fixture*.

It is also possible to draw circles, rectangles and lines in the stage layout window. In addition, some texts can be added. Afterwards, everything can be edited with their EDIT function.

By default, everything that is placed in the stage window has a green color. To keep everything well organized, it is better to select first a color before a fixture is set up or before drawing lines etc... It is always possible to change colors afterwards with the EDIT functions.

<u>4.2.7</u> Fixture patch window

	FIXTURE-PAGE 1									
1	2	з	4	5	6	7	8	9	10	
11	12	13	14	15	16	17	18	19	20	
21	22	23	24	25	26	27	28	29	30	
31	32	33	34	35	36	37	38	39	40	
41	42	43	44	45	46	47	48	49	50	
51	52	53	54	55	56	57	58	59	60	
61	62	63	64	65	66	67	68	69	70	

From the moment the fixture is placed in the stage window, its number with its color will also appear in the fixture patch window.

This same window will also be displayed in the main program. The numbers 1...70 represent the fixture numbers on the selected fixture page as they appear in the stage layout window

4.2.8 Saving the setup

Click on the EXIT box or select (and hold for 2 sec) the [SETUP] key. Click the SAVE box or select key [1], NOT SAVE or key [2] or [ESC] to abort.

It is impossible to leave the SETUP as long as there are patch faults (overlapping addresses).

4.3. Trackerball and keys in the setup program

Trackerball

Only the 2 upper trackerball keys have a function in the setup program:

- LEFT KEY: apply
- RIGHT KEY: abort

Front-panel keys

In general: When a function has been selected, the LEDs of the keys belonging to the selected function will blink.							
Keypad [2] and [8]:	Line down, up, like address down, address up.						
Keypad [1 9]:	Rotating fixtures						
	Manually assigning addresses followed by [RET]						
[PgUp] en [PgDn]:	Page up, Page down: for example address page up or address page down in the dipswitch window.						
[Fixture PgUp] and							
[Fixture PgDn]:	Selecting a fixture page.						
[ESC]:	Abort						
[@]:	Select this key first when values need to be assigned, for example when assigning DMX addresses.						

<u>4.4.</u> {EXP} <u>Other functions</u>

		PATCH						
PATCH		INFO						
ALL		DIMMER		RGB LIB				
TYPE		MASTER		LEE				
GROUPS		SLAVE		ROSCO				
RANDOM		DMX IN		GAM				
PATCH FIXTURE	PATCH FUNC.	PATCH LINK	CHANGE ADDRESS	CHANGE RGB-LIB	ERASE FIXTURE	ERASE ALL	REDRAW	EXIT

4.4.1 {EXP} Patch Fixture

This is a re-patch function or re-number function for fixtures already being placed on the stage.

All

All fixture numbers change starting from 1.

First, the fixture type, of the fixture that has to become fixture 1, has to be selected. Then the fixtures, within the selected type, have to be clicked in successive order.

Туре

To change the fixture order within one fixture type. First, select the type (for example MAC300 or MAC600), and then click the fixture that has to become first within the selected type.

Groups

To renumber the fixtures by selecting complete groups of fixtures. Select in successive order the groups. The fixtures will be renumbered automatically.

Random

To break the fixture type ordering. Every fixture can be ordered as wished. The fixtures are selected in successive order.

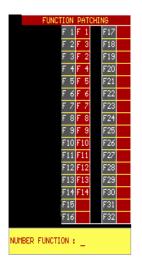
Tip: It is also possible to re-patch fixtures by using the **DRAG AND DROP** function with the trackerball. Just click the fixture number, in the fixture patch window, with the left trackerball key and hold it. Drag the number to another position and drop it by releasing the key.

4.4.2 {EXP} Patch Function

Like fixtures, also the fixture channels can be re-patched, since every fixture type has another channel ordering.

Ex.: For all types, channel 1 has to be dimmer, channel 2 has to be color and channel 3 gobo.

First, select a fixture from the library. The function patch window shows it's patching:



This picture represents the function patch for a MAC600 in Mode 4.

In this example, channel 2 (dimmer) is re-patched to channel 3 (CYAN) (F2 = F3 (cyan)), and channel 3 becomes the dimmer channel (F3=F2 (dimmer)). Channel 1 remains the same (F1 = F1).

If we want channel 2 to become the dimmer again and channel 3 to become cyan again then select:

Patch Function, give the number of the channel to re-patch (ex. 2 [RET]), followed by the channel number where it should be re-patched to (ex. 2 [RET]. In this case, channel 2 is repatched to its original state (F2 = F2). The same sequence has to be repeated for channel 3 ([3] [RET] [3] [RET])

- Rem. 1: It is impossible to re-patch 2 channels to the same function. The re-patch of the channels has to be completely finished, or an error message will appear (the red area cannot contain 2 times the same patch channel).
- **Rem. 2:** It is also impossible to assign a patch number greater than the maximum number of channels of the fixture. This means that the empty boxes cannot be used.

4.4.3 {EXP} Patch link

4.4.1.1 {EXP} Info

This function gives an overview of the already patched fixtures together with their addresses, protocols and dipswitch settings. This info may be printed (in hp laserjet mode) or exported.

	STAGE OUTPUT INFORMATION	
STAGE SETTINGS /TYPE	CASE Showlight Controlle	r
MAC 600 DMX MODE 4		
FIXT.PAGE: 2.1 DMX OUT FIXT.PAGE: 3.1 DMX OUT FIXT.PAGE: 4.1 DMX OUT	1 ADDR: 1 DIPSW: 1 on 1 ADDR: 15 DIPSW: 1,2,3,4 on 1 ADDR: 29 DIPSW: 1,3,4,5 on 1 ADDR: 43 DIPSW: 1,2,4,6 on 1 ADDR: 57 DIPSW: 1,4,5,6 on 1 ADDR: 71 DIPSW: 1,2,3,7 on	O1 TYPE O2 OUTPUT INCLUDE STAGE
FIXT.PAGE: 13.1 DMX OUT FIXT.PAGE: 14.1 DMX OUT FIXT.PAGE: 15.1 DMX OUT FIXT.PAGE: 16.1 DMX OUT	ADDR: 124 DIPSW: 3,4,5,6,7 on 1 ADDR: 111 DIPSW: 1,2,3,4,6,7 on 1 ADDR: 98 DIPSW: 2,6,7 on 1 ADDR: 98 DIPSW: 2,6,7 on 1 ADDR: 95 DIPSW: 1,3,5,7 on 1 ADDR: 137 DIPSW: 1,4,8 on 1 ADDR: 137 DIPSW: 2,3,5,8 on 1 ADDR: 163 DIPSW: 1,2,6,8 on 1 ADDR: 215 DIPSW: 1,2,3,5,7,8 on	EXPORT

There are 2 possible ways to group the information: by fixture type (*type*) or by controller output (*output*).

When exporting, the stage layout can be added to the export file (*include stage*).

When the (*export*) function has been selected, the exported BMP file has to be copied to a floppy disk using the MENU item (*TO/FROM FLOPPY*) (see chapter menu). This file can be imported and printed on a Windows PC.

<u>4.4.1.1</u> {EXP} <u>Dimmer</u>

Dimmer channels can be used with some advanced functions. **Dimmer curves** can be assigned to them and the dimmer channels can be added to a list of dimmer channels where **special dimmer commands can be applied on.** Those special commands are for example DIMCHANNEL x THRU y @ zz%

Each dimmer channel can be configured separately.

					DIM	1ER	CURVE	INFORMATI	ON			
DIM	Chan.	FIXTURE	CHANNEL	TYPE				AC	CTIVE	CURVE		
21		21.1	2	MAC	300	M4	VO	Y	es	Linear	Δ	
22		22.1	2	MAC	250	M4	V1	Y	es	Linear	_	ACTIVE
23	n	23.1	2	MAC	250	M4	V1	Y	es	Linear		
24		24.1	2			M4		Y	es	Linear		UCHIACTEL
25		25.1	2		250				es	Linear		NONACTIV
26		26.1	2		250			Y	es	Linear		
27		27.1	2		250	M4	V1	Y	es	Linear		DTMOUDUR
28		28.1	2			M4			es	Linear		DIMCURVE
29		29.1	2		250				es	Linear		
30		30.1	2		250				es	Linear		
31		31.1	2		250				es	Linear		DESELEC.
32		32.1	2			M4			es	Linear		
33		33.1	2	MAC		M4			es	Linear		
34		34.1	2			M4			es	Linear		
35		35.1	2		250	M4	01		es	Linear		
36		1.2	1	PARe					es	Linear		EXPORT
37		2.2	1	PARe					es	Linear		
38		3.2	1	PARe					es	Linear		
39		4.2	1	PARe	54			Y	es	Linear	Δ	PRINT

In the above example, dimmer channel 35 represents the dimmer of a MAC250. It is activated, which means that it is included in the list where the special dimmer commands can be applied on. The channel has a linear dimmer curve.

Channel 36 is also included in the list and linear. Because channel 36 represents a PAR64, we can assign another curve like PRE-HEAT to it.

To activate dimmer channels in the list, the fixture(s) have to be selected with the trackerball and the ACTIVE or NONACTIVE box has to be clicked. When the item DIMCURVE is selected, a supplementary window will open:

SELECT CURVE	Linear: Normal linear curve
	Linear 110V: Linear curve limited to 50% max value
PREHEAT	Preheat: Linear curve starting from 5%
PREHEAT 110V	Preheat 110V: Preheat curve limited to 50% max value
	ON/OFF: Relays function
CUSTOM 1	Neon: Curve special for neon lamps
CUSTOM 2	Custom x: User curves to be made with the program 'Logicurve'
CUSTOM 3	
CUSTOM 5	
CUSTOM 7	
CUSTOM 8	
CUSTOM 9	
CUSTOM 10	

Note: the program 'Logicurve' is a Windows based program that can be downloaded from the net for free. (addresses: see chapter Introduction). The user curves have to be imported to the controller using the menu.

<u>4.4.1.2</u> {EXP} <u>Master (linking controllers, function has to be used on the MASTER desk)</u>

MartinCase controllers are linked through DMX. This way, up to 41 controllers (with playback info) and up to 113 controllers (without playback info) can be linked. To accomplish this, the DMX output of the master controller is connected with the DMX input of the slaves.

To set up a link, a fixture called 'Case slave controller' (out of the Casefixtures library) with its DMX address, has to be placed on the stage

There are 3 possible fixture choices:

- Case slave console: this is a slave controller without point cues and limited to 10 playbacks. New shows shouldn't use this fixture anymore, it is only included in the library to insure compatibility with older shows. New shows should select the Case Slave Desk V2.
- Case slave desk V2: this is a slave controller with point cues and 10 playbacks.
- Case slave wing: Together with Case slave desk V2, a Pro Plus controller can be linked.

After setting up the Case slave desk, the function *Patch Link -- Master* has to be selected. One has to make the choice between Playbacks, Masters and Cues automatic or manual:

- Automatic: Playbacks, Master faders or cues will be send immediately to the slave desks as soon as there is a change in one of them on the master. The playbacks and master faders will have the same value on the save desks and the same cues will be activated. In this case, you don't have to worry about the slave desks placed on the stage; they are only there for the DMX addressing.
- Manual: The slave devices on the stage act as normal fixtures. Master faders and playbacks have to be controlled as if they were normal fixtures. The cues will only be activated on the slave desks when Case Slave Desk channel 17 has a value higher than 50%. The advantage is that different cues numbers and different master and playback fader values and can be activated on the slaves.

On the slave desk, patch link SLAVE must be activated (see next paragraph).

4.4.1.3 {EXP} Slave (linking controllers, function has to be used on the SLAVE desk)

When controllers are linked, the function *Patch Link – SLAVE has to be activated on each slave desk* to assign a DMX address to the slave controller.

When the function is selected, the DMX address of the *Playbacks – master – cue* will be asked. This has to be the same address as assigned on the **master** desk for the **'Case Slave Desk V2'.**

When there is also a 'Case slave wing' set up on the master, the address of the *Playbacks* 11 - 42 on the slave should correspond with the 'Case slave Wing' address assigned on the master. When there is no slave wing set up on the master, just press [*RET*] on the Playbacks 11-42 item of the slave desk.

De controller will ask now if the master is working in %*proportional or digital* mode. In case of a MartinCase controller, select the digital option, in case of an other brand master controller, you have a choice.

- **Note:** It is possible to control a MartinCase desk from an other brand controller using DMX. The other brand controller, which will act as master, needs a library called 'Case slave desk V2' and 'Case Slave Wing' (for the channel values, see next page). It is also possible to control the MartinCase slaves with a dimmer on the Master. A dimmer of:
 - o 20 channels for a MartinCase with point cues
 - o 32 channels in case of a MartinCase slave with playbackwing.

The MartinCase slave controllers act as a normal fixture on the master. If a library is made for another brand controller, the channel assignment will be:

Channel	Without point cues (*)	With point cues	Playback- wing
1	playback 1	playback 1	playback 11
2	playback 2	playback 2	playback 12
3	playback 3	playback 3	playback 13
4	playback 4	playback 4	playback 14
5	playback 5	playback 5	playback 15
6	playback 6	playback 6	playback 16
7	playback 7	playback 7	playback 17
8	playback 8	playback 8	playback 18
9	playback 9	playback 9	playback 19
10	playback 10	playback 10	playback 20
11	grandmaster	grandmaster	playback 21
12	flashmaster	flashmaster	playback 22
13	submaster1	submaster1	playback 23
14	submaster2	submaster2	playback 24
15	cuepage	cuepage	playback 25
16	cuenumber	cuenumber	playback 26
17	GO (**)	GO (**)	playback 27
18		pointcue	playback 28
19		not in use	playback 29
20		not in use	playback 30
••••			playback 31
32			playback 32

(*) The Case slave desk without point cues should not be used any more starting from software version 7.0. It only exists in the library to retain compatibility with older shows.

(**) The GO function is used to activate the cue, set with channels 15 and 16. To activate the cue, the GO channel must have a value > 127 (>50%).

<u>4.4.1.4</u> {EXP} <u>DMX-IN</u>

DMX coming from other controllers can be read using the *[SHIFT] [READ OUTP.]* keys in the main program when the controllers are linked through DMX-IN.

It is also possible to mix the DMX of 2 controllers with the same setup when both are connected through the DMX output, DMX input. The **DMX-IN** signal will be mixed with the **DMX-OUT** signal on the **HTP** principle. This means that the highest channel value will take over.

Ex.: Suppose we have 2 desks with the same setup. The 2 desks are connected DMX-OUT (desk 1) to DMX-IN (desk 2). Suppose channel 30 of desk 2 has a value of 80 and the same channel on DMX-IN coming from desk 1 has a value 100. On desk 2 the DMX value sent out by its DMX out will be 100.

DMX in (100) > DMX out (80) ----> DMX out = 100

To activate this, the DMX-IN channels of the fixtures on the stage must be active. Using the function *Patch Link - DMX-IN, the DMX-IN patch can be toggled ON or OFF*.

4.4.2 Change address

This function is used to change the address of already patched fixtures on the stage. This function is also used to change the multipatch/softpatch of an already existing setup.

Select the function, click the fixture and select a new address value.

4.4.3 {EXP} Change RGB lib

When CMY (RGB) fixtures are in use, the filter library can be chosen. In the main program, the *[RGB]* key is used to call a color by its filter number. The library selected here will be used for all CMY fixtures in the main program. There is a choice between LEE®, ROSCO®, or GAM®.

Select the function and select a library.

4.4.4 Erase fixture

To erase an already configured fixture, *select this function and click on the fixtures to remove.*

4.4.5 Erase all

To clear the entire stage. If this function is used accidentally, the setup can be left without saving.

<u>4.4.6</u> <u>Redraw</u>

Redraw everything.

<u>4.4.7</u> Exit

To leave and save the setup program, *select the exit function*. When leaving, there is a choice between:

- Save
- Not save
- Cancel

When fixtures, of a type already in use in the stage, are added on an existing programmed show, the setup program will ask next question when leaving:

Fixture x (Page y) is new.

Select a fixture to copy from...

With keys *[1...70] or by clicking with the trackerball*, the fixture(s), to copy from, can be selected. All memories, presets and all cues of the selected fixture(s) will be copied to the new fixtures.

Tip: It is easy to make a standard show that can be used on every occasion, if always the same type of fixtures are used. Just prepare the show with only 1 or 2 fixtures of every type. Since you can copy memories, cues and presets from the programmed fixtures when leaving the setup, it is easy to extend an already existing show.

<u>4.5</u> {EXP} <u>Changing the start options and controller default values</u>

[SETUP] [2]

When option [2] is selected from the main program when entering the SETUP, next menu will appear:

EDIT GLOBAL SETTINGS						
GLOBAL TRANSPARENTMODE		CONSOLE SETTINGS				
PLAYBACKS TRANSPARENT	ON	AUTOMATIC PLAYBACK-MEMO	RIES			
SEQUENCES TRANSPARENT	OFF	FR0M 2501				
CONSOLE STARTUP		AUTOMATIC SEQUENCE-MEMO	RIES			
MODE	FIXT.	FROM 3001				
VIEWMODE	STAGE	AUTOMATIC MEMORYNAME	ON			
SEQUENCE A	OFF	AUTOMATIC CUENAME	ON			
SEQUENCE B	OFF	AUTOMATIC PRESETNAME	ON			
SEQUENCE C	OFF	AUTOMATIC GROUPNAME	ON			
SEQUENCE D	OFF	DEFAULT Cuetimings				
CUEFADING	ON	delay in	Om 0.0s			
VALUES	DIGIT.	fade in	0m 2.0s			
TIMECODE PLAY	OFF	delay out	infinite			
CUEFADING OPTIONS		fade out	0m 0.0s			
AUTOLOAD CUEMEM	ON	hold	infinite			
AUTOPREPARE CUES	OFF	TIMECODE SETTINGS				
AUTOMATIC TRACE	OFF	AUTOMATIC CUETRACKING	NORMAL			

The different options will become clear when reading the next chapters in this manual. We will give here a brief description.

Note: The values in this example are the values from the 'EMPTY' show. Every time a new show is started, those values will be applied to the show.

• Global Transparentmode

Sets the global transparent mode for the entire show. Possible choices for sequences and playbacks are: **OFF or ON**. Explanation in chapter Sequences and Playbacks.

• Console Startup

The controller will activate those options when starting up:

MODE

Will start-up the controller in **Fixture mode or cue mode**.

VIEWMODE

Opens the **STAGE**, **TEXT** (names) **or VALUES** (channel values) screen when starting up.

SEQUENCE A – D

Options: **OFF or ON.** Starts or stops the sequences when starting up. (Chapter Sequences and Playbacks).

CUEFADING

Options: **OFF or ON.** Starts or stops the cuefading when starting up. (Chapter Cuetimings).

VALUES

Options: **DIGIT. or PERC.** Shows the channel values in digital or proportional. (Chapter Fixtures and Control channels).

TIMECODE PLAY

Options: **OFF or ON.** Starts or stops the time-code when starting up. Handy on exhibitions, to automate everything when the power comes up. (Chapter Time-code).

• Cue-fading Options

AUTOLOAD CUEMEMORY

Options: **OFF or ON.** Selects whether a cue-memory has to be loaded or not, in the temporary memory, when selecting a cue. (Chapters cue-memories and cue-timings).

AUTOPREPARE CUES

Options: **OFF or ON.** Selects whether the auto-prepare function is active or not. (Chapter Cue-timings)

AUTOMATIC TRACE

Options: **OFF or ON.** Selects whether the automatic-trace function is active or not. (Chapter Cue-timings)

• Console Settings

AUTOMATIC PLAYBACK-MEMORIES FROM

Sets the starting memory number from which memories will be created automatically when using the fast playback-programming mode. (Chapter Sequences and Playbacks).

AUTOMATIC SEQUENCE-MEMORIES FROM

Sets the starting memory number from which memories will be created automatically when using the fast sequence-programming mode. (Chapter Sequences and Playbacks).

AUTOMATIC MEMORYNAME

Options: **OFF or ON.** In ON mode, a memory name will be asked every time a memory is created (also when using the fast programming mode of sequences and playbacks). (Chapters Memories, Sequences and Playbacks).

AUTOMATIC CUENAME

Options: **OFF or ON.** In ON mode, a cue name will be asked every time a cuememory is created. (Chapters Cue-memories).

AUTOMATIC PRESETNAME

Options: **OFF or ON.** In ON mode, a preset name will be asked every time a preset is created. (Chapter Presets).

DEFAULT CUETIMINGS

Assigns default timings, used when creating cue-memories. (Chapter cue-timings).

• Time-code settings

AUTOMATIC CUETRACKING

Sets the time-code cue-tracking mode. (Chapter Time-code and Midi). Possible choices are: Disabled, normal or full. This setting stipulates what should be done with previous cues when the time code is started in the middle of a time-code show.

[2↓] or [81] [EDIT]

To change the settings, highlight the item with the $[2\downarrow]$ or $[8\uparrow]$ keys and press the *[EDIT]* key. When timing-values have to be given, use the keypad.

To save the settings, press the [RET] key.

4.6 Summary

Before programming starts, the stage setup has to be created.

To create it:

- select a manufacturer
- select a fixture type
- select a fixture page with [Fixture PgDn], [Fixture PgUp] (up to 10 pages)
- select the address and output
- put the fixture somewhere in the stage window
- rotate it to correspond the Pan/Tilt motions with the trackerball actions
- repeat these steps until all fixtures are done
- save the setup and return to the main program

Other functions:

- drawing attributes to the stage and adapt the colors
- re-patch fixtures
- re-patch channels
- select dimmer curves
- linking of controllers
- configure DMX-IN
- RGB library select
- print and export the stage and patch

The start options and default settings can be modified, and the auto-trace and auto-prepare functions can be activated.