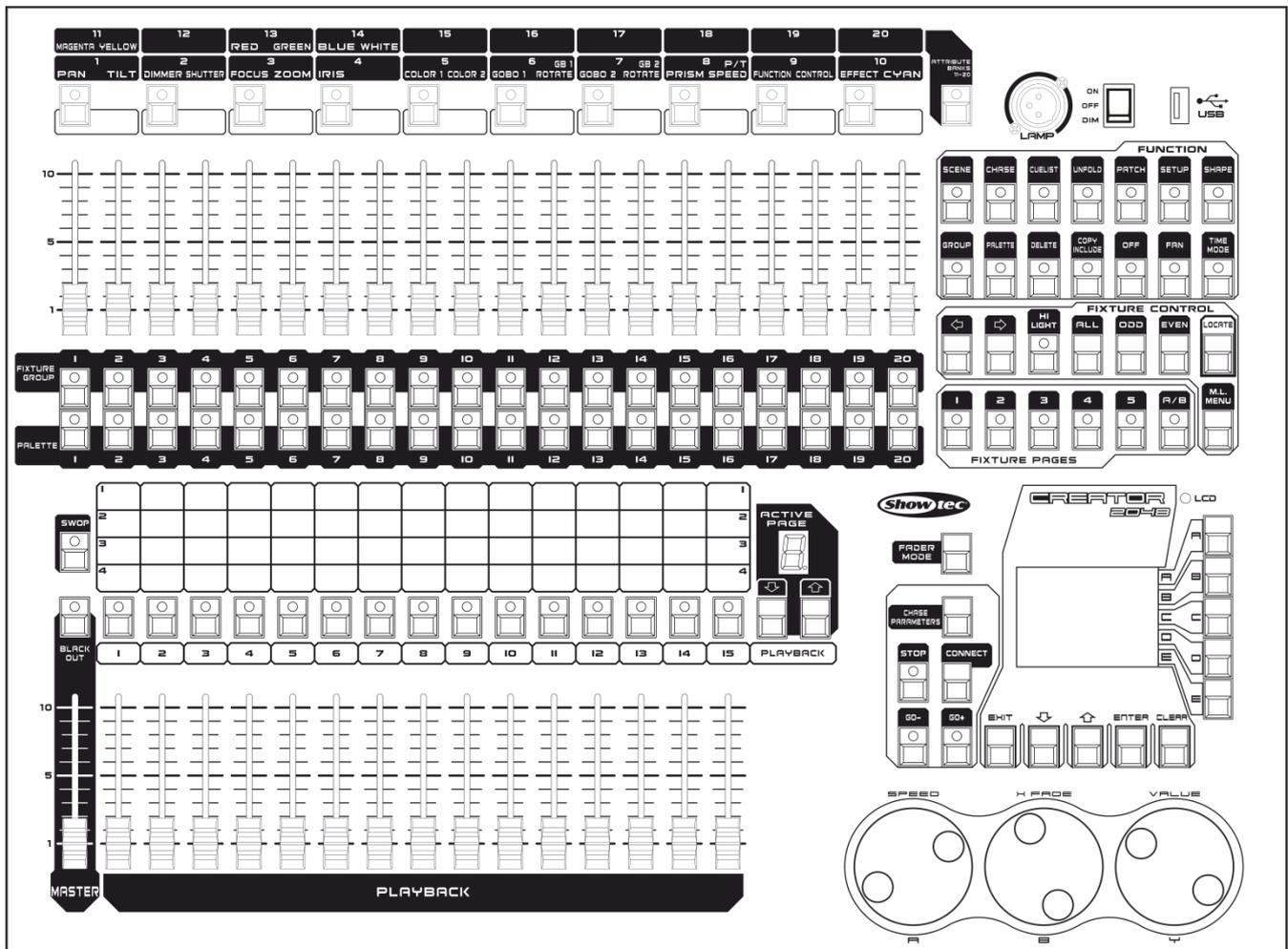




# MANUAL



ENGLISH

## Creator 2048

## V2

Ordercode: 50732

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## Installation

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**For your own safety, please read this user manual carefully  
before your initial start-up!**



### Unpack

Immediately upon receiving this product, carefully unpack the carton and check the contents to ensure that all parts are present, and have been received in good condition. Notify the dealer immediately and retain packing material for inspection if any parts appear damaged from shipping or the carton itself shows signs of mishandling. Save the carton and all packing materials. In the event that a fixture must be returned to the factory, it is important that the fixture be returned in the original factory box and packing.

### Your shipment includes:

- Showtec Creator 2048
- Flight case
- Power cable (1,5 m)
- User manual

### Optional Accessories:

- Goose-neck lamp (ordercode: [60722](#))

### Safety instructions



#### **CAUTION!**

**Keep this device away from rain and moisture!  
Unplug mains lead before opening the housing!**



Every person involved with the installation, operation and maintenance of this device has to:

- be qualified
- follow the instructions of this manual



**CAUTION! Be careful with your operations.  
With a dangerous voltage you can suffer  
a dangerous electric shock when touching the wires!**



Before your initial start-up, please make sure that there is no damage caused by transportation. Should there be any, consult your dealer and do not use the device.

To maintain perfect condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this manual.

Please consider that damages caused by manual modifications to the device are not subject to warranty.

This device contains no user-serviceable parts. Refer servicing to qualified technicians only.

**IMPORTANT:**

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorized modification to the device.

- Never let the power cord come into contact with other cables! Handle the power cord and all connections with the mains with particular caution!
- Never remove warning or informative labels from the unit.
- Do not open the device and do not modify the device.
- Never use anything to cover the ground contact.
- Never leave any cables lying around.
- Do not insert objects into air vents.
- Do not connect this device to a dimmerpack.
- Do not switch the device on and off in short intervals, as this would reduce the device's life.
- Do not shake the device. Avoid brute force when installing or operating the device. Never use the device during thunderstorms, unplug the device immediately.
- Only use device indoors, avoid contact with water or other liquids.
- Do not touch the device's housing bare-handed during its operation (housing becomes hot).
- Only operate the device after having familiarized with its functions.
- Avoid flames and do not put close to flammable liquids or gases.
- Always keep case closed while operating.
- Always allow free air space of at least 50 cm around the unit for ventilation.
- Always disconnect power from the mains, when device is not used or before cleaning! Only handle the power cord by the plug. Never pull out the plug by tugging the power cord.
- Make sure that the device is not exposed to extreme heat, moisture or dust.
- Make sure that the available voltage is not higher than stated on the rear panel.
- Make sure that the power-cord is never crimped or damaged. Check the device and the power cord from time to time.
- If the external cable is damaged, it has to be replaced by a qualified technician.
- If the glass is obviously damaged, it has to be replaced. So that its functions are not impaired, due to cracks or deep scratches.
- If device is dropped or struck, disconnect mains power supply immediately. Have a qualified engineer inspect for safety before operating.
- If the device has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation water might damage your device. Leave the device switched off until it has reached room temperature.
- If your Showtec device fails to work properly, discontinue use immediately. Pack the unit securely (preferably in the original packing material), and return it to your Showtec dealer for service.
- For adult use only. The device must be installed out of the reach of children. Never leave the unit running unattended.
- For replacement use fuses of same type and rating only.
- The user is responsible for correct positioning and operating of the Creator 2048. The manufacturer will not accept liability for damages caused by the misuse or incorrect installation of this device.
- This device falls under protection class I. Therefore it is essential to connect the yellow/green conductor to earth.
- Repairs, servicing and electric connection must be carried out by a qualified technician.
- WARRANTY: Till one year after date of purchase.

**Operating Determinations**

- This device is not designed for permanent operation. Consistent operation breaks will ensure that the device will serve you for a long time without defects.
- The maximum ambient temperature  $t_a = 40^{\circ}\text{C}$  must never be exceeded.
- The relative humidity must not exceed 50 % with an ambient temperature of  $40^{\circ}\text{C}$ .
- If this device is operated in any other way, than the one described in this manual, the product may suffer damages and the warranty becomes void.
- Any other operation may lead to dangers like short-circuit, burns, electric shock, crash etc.

*You endanger your own safety and the safety of others!*

*Improper installation can cause serious damage to people and property!*

**Connection with the mains**

Connect the device to the mains with the power-plug.

Always pay attention, that the right color cable is connected to the right place.

<b>International</b>	<b>EU Cable</b>	<b>UK Cable</b>	<b>US Cable</b>	<b>Pin</b>
L	BROWN	RED	YELLOW/COPPER	PHASE
N	BLUE	BLACK	SILVER	NEUTRAL
	YELLOW/GREEN	GREEN	GREEN	PROTECTIVE GROUND

*Make sure that the device is always connected properly to the earth!*

*Improper installation can cause serious damage to people and property!*



## **Return Procedure**



Returned merchandise must be sent prepaid and in the original packing, call tags will not be issued. Package must be clearly labeled with a Return Authorization Number (RMA number). Products returned without an RMA number will be refused. Highlite will not accept the returned goods or any responsibility. Call Highlite 0031-455667723 or mail [aftersales@highlite.nl](mailto:aftersales@highlite.nl) and request an RMA prior to shipping the fixture. Be prepared to provide the model number, serial number and a brief description of the cause for the return. Be sure to properly pack fixture, any shipping damage resulting from inadequate packaging is the customer's responsibility. Highlite reserves the right to use its own discretion to repair or replace product(s). As a suggestion, proper UPS packing or double-boxing is always a safe method to use.

**Note: If you are given an RMA number, please include the following information on a piece of paper inside the box:**

- 1) Your name
- 2) Your address
- 3) Your phone number
- 4) A brief description of the symptoms

## **Claims**

The client has the obligation to check the delivered goods immediately upon delivery for any shortcomings and/or visible defects, or perform this check after our announcement that the goods are at their disposal. Damage incurred in shipping is the responsibility of the shipper; therefore the damage must be reported to the carrier upon receipt of merchandise.

It is the customer's responsibility to notify and submit claims with the shipper in the event that a fixture is damaged due to shipping. Transportation damage has to be reported to us within one day after receipt of the delivery.

Any return shipment has to be made post-paid at all times. Return shipments must be accompanied with a letter defining the reason for return shipment. Non-prepaid return shipments will be refused, unless otherwise agreed in writing.

Complaints against us must be made known in writing or by fax within 10 working days after receipt of the invoice. After this period complaints will not be handled anymore.

Complaints will only then be considered if the client has so far complied with all parts of the agreement, regardless of the agreement of which the obligation is resulting.

## Description of the device

Showtec Creator 2048 can support up to 200 fixtures. It is compatible with R20 format of Avolites Pearl and featured with built-in shape effects of pan/tilt circle, RGB rainbow and varieties of chases. 15 chases as well as 8 built-in shapes can be output simultaneously. Faders can be used to output chases and adjust the intensity of the dimmer channels in the chases.

### Features

DMX512 channel number	2048
Fixture	200
Channels for each fixture	40
Chases	150
Chase to run simultaneously	15
Chase step	600
Shapes for each scene	5
Shapes to run simultaneously	8
Re-patched Fixture address	Yes
Swap Pan/Tilt	Yes
Reversed channel output	Yes
Channel slope modification	Yes
Channels for each fixture	40 primary + 40 fine tune
Library	Avolite Pearl R20 library supported
Scene	150
Scenes to run simultaneously	15
Total Scene steps	600
Time control of Scenes	Fade in/out, LTP slope
Shapes for each Scene	5
Scene and dimmer by slider	Yes
Swap Scene	Yes
Flash Scene	Yes
Shape generator	Shapes of Dimmer, Pan/Tilt, RGB, CMY, Color, Gobo, Iris, Zoom and Focus
Shapes to run simultaneously	8
Master slider	Global
Real time blackout	Yes
Channel value by wheel	Yes
Channel value by slider	Yes
Dimmer by slider	Yes
USB Memory	FAT32 supported
Dust Cover + Flightcase	included
Case Dimensions	655 x 538 x 250 mm (LxWxH)
Case Weight	10,06 kg
Dimensions	595 x 460 x 128 mm (LxWxH)
Weight	10,64 kg

Frontside

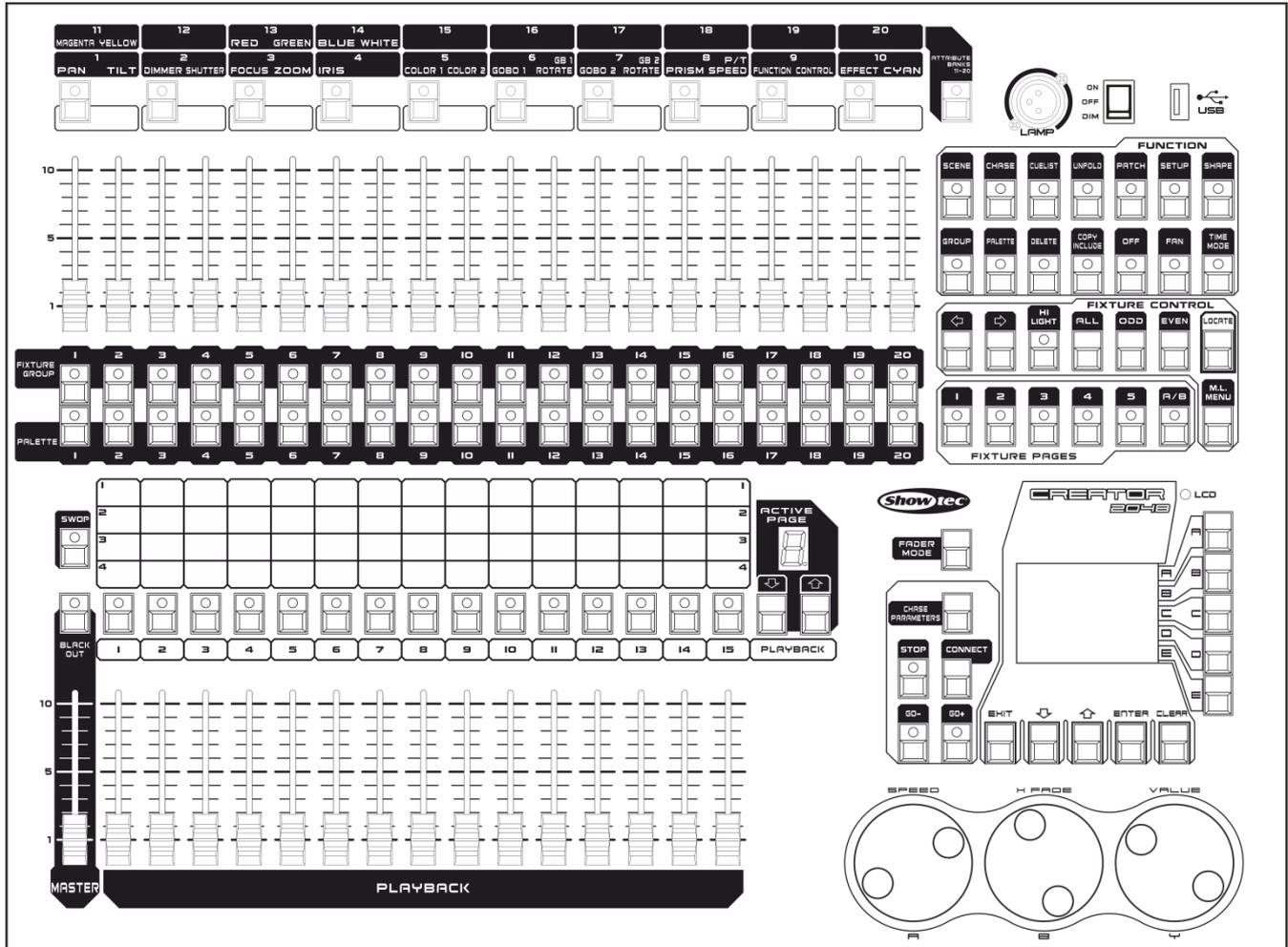


Fig. 01

## Layout

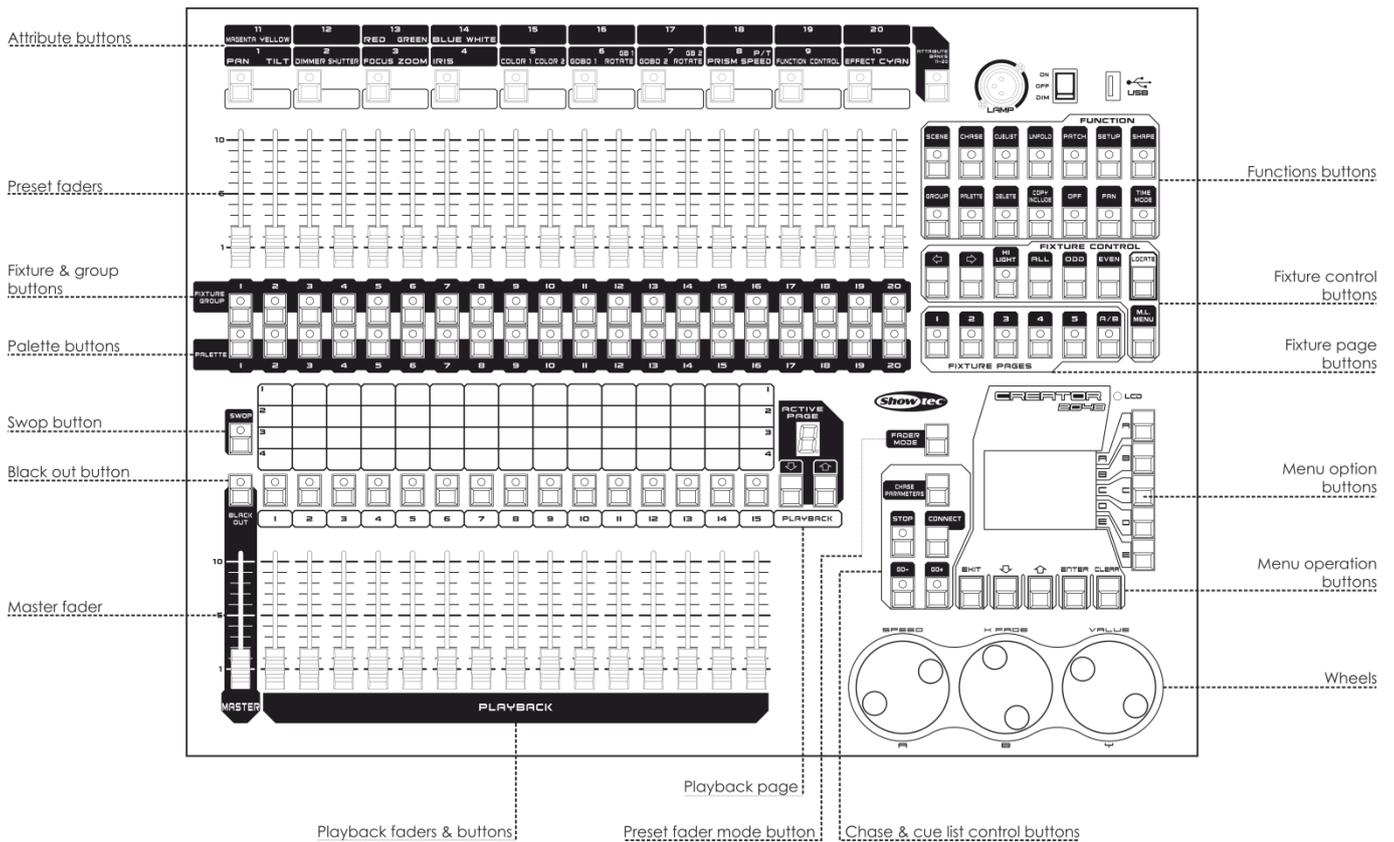


Fig. 02

- The **Attribute buttons** are used for selecting which attributes of a fixture (e.g. color, gobo, pan, focus) are going to be controlled by means of the control wheels. The buttons will light up to show you which attributes are active.
- The **Preset faders** are used for controlling individual dimmer channels and fixture intensities or to control fixture attributes.
- The **Fixture Buttons** and the **Fixture Group Buttons** are used for patching and selecting fixtures. The **Fixture Group Buttons** can also be used for grouping of the fixtures.
- The **Palette buttons** allows you to save or apply many effects (e.g. color, gobo, position) on your fixtures.
- The **Swop Button** is to swap the swop function and the flash function of scenes/chases.
- The **Blackout button** allows you to blackout the whole console. When the Blackout button is activated or when the master slider is not in FULL ON position, its indicator will be on.
- The **Master Fader** controls the overall output of the intensities in the console. When the master slider is at 0, the dimmer channels in the console will all be set to 0. You will normally have this master slider set to full; otherwise, the indicator of the Blackout button will keep flashing.
- The **Playback faders & buttons** can be used for saving and playing scenes/chases.
- The **Playback page** can be used for toggling through the 10 playback pages.
- The **Chase and cue list control area** can be used for controlling the running of chases or cue lists.
- The **Wheels** are used to modify the attributes of fixtures, the speed, slope and other settings of chases and cue lists.
- The **Menu Operation buttons** can be used for cancelling, selecting, toggling through or clear the programming area in menu operation.
- The **Menu Option buttons** can be used for selecting control options. The display next to the buttons shows what each one will do. The options for each key change depending on what the console is doing.
- The **Fixture Page buttons** select 10 pages for the fixtures and palettes.
- The **Fixture Control buttons** used for selecting fixtures by step or by odd/even and for locating fixtures.
- The **Function buttons** are used to carry out functions such as storing cues, copying, saving to disk, etc. These buttons have lights on to indicate when they are active.

## Glossary

- Scene: The data of a stage scene, saved in a playback.
- Chase: The data of a series of fixture performances, saved in a playback.
- HTP: Channels with the highest output (highest takes precedence), normally for dimmer channels.
- LTP: Channels with the latest output (latest takes precedence), for non-dimmer channels.
- Fade in: The intensity of the light changes from dark to bright.
- Fade out: The intensity of the light changes from bright to dark.
- Slope: Gradual changing in a fixture's channel data.
- Scene: A single stage look programmed onto a Playback button or a fader. Also known as MEMORY, STATE, CUE, LOOK.
- Chase: A sequence of multiple pre-recorded steps which automatically run one after the other.
- Chase Steps: Individual cues within a chase.
- Playback: Area of the system that can replay recorded scenes or chases using playback faders.
- Record by fixture: This is the normal mode of the Showtec Creator 2048. When you record a cue, all attributes of every fixture that you have changed are recorded in the cue. If you change only the position of a fixture, the color, gobo, intensity and all the other attributes of that fixture are recorded as well. When you recall the cue, it will look exactly as it did when you saved it. However, it can be slightly inflexible if you want to combine cues.
- Record by channel: Only the attributes you have changed are recorded in the cue. If you change the position of a fixture, only the position is recorded. When you recall the cue, the color, gobo etc. will remain as previously set. This means that you can use a cue to change the position of some fixtures while leaving the color set from a previous cue, allowing more variety when you are running a show. It is a powerful feature but you can easily get yourself into trouble with it, so you need to be sure about which attributes you need to record and which you want to "show through". When you are learning, it is best to have some cues "recorded by fixture" which turn on the fixtures in a known state, then have some color cues to modify just the color, or some gobo cues to set the gobo, or other attributes.

## Backside

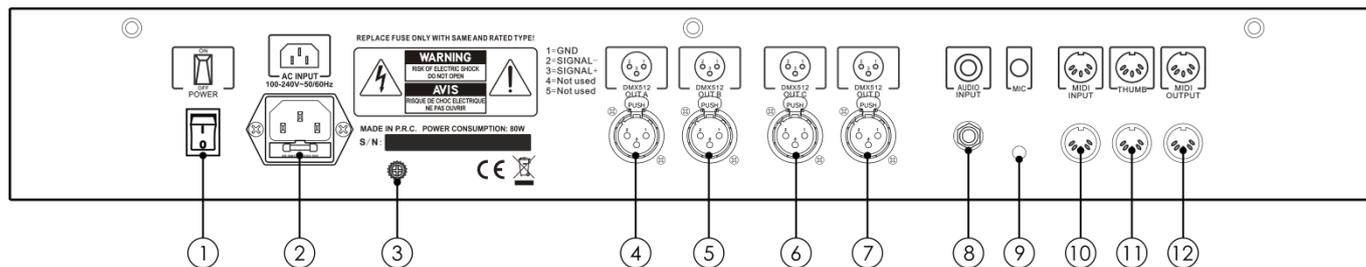


Fig. 03

- 01) ON/OFF
- 02) IEC Powerconnector + Fuse
- 03) Ground/earth connection
- 04) DMX Output A
- 05) DMX Output B
- 06) DMX Output C
- 07) DMX Output D
- 08) Audio Input
- 09) Microphone
- 10) MIDI Input
- 11) MIDI Thru
- 12) MIDI Output

## Installation

Remove all packing materials from the Creator 2048. Check if all foam and plastic padding is removed. Connect all cables.

**Do not supply power before the whole system is set up and connected properly.**

**Always disconnect from electric mains power supply before cleaning or servicing.**

**Damages caused by non-observance are not subject to warranty.**

## Set Up and Operation

Follow the directions below, as they pertain to your preferred operation mode.

Before plugging the unit in, always make sure that the power supply matches the product specification voltage. Do not attempt to operate a 120V specification product on 230V power, or vice versa.

Connect the device to the main power supply. The device can be sound-controlled as it is equipped with a built-in microphone.

### 1 Patching

#### 1.1 Patch dimmer

Each dimmer channel is allocated to one fixture button. If you want to link dimmers together, you can allocate several dimmers to the same fixture button.

- 01) In the initial menu, press Patch, then <A> [Dimmer].
- 02) On the second line of the display, the Showtec Creator 2048 shows the DMX address it is going to patch. The third line shows the current output connector A\B\C\D. Press <C> to toggle. You can change the DMX address by turning the Wheel V; or by pressing <D> to get a suitable DMX address automatically.
- 03) To patch a single dimmer, press a fixture button. To patch a range of dimmers, press and hold down the Fixture button for the first dimmer in the range, then press the last fixture button in the range. The range of dimmers will be patched to sequential DMX addresses.
- 04) Repeat steps 2-3 for other dimmers.

You can patch multiple dimmers onto the same Fixture button by adjusting the DMX address of the next dimmer to be patched and pressing the Fixture button again.

#### 1.2 Patch moving light fixtures

It is more complicated to patch fixtures than to patch dimmers as there are more attributes in fixtures to control, such as pan, tilt and color, etc., but, there is only brightness in a dimmer. When patching a fixture, the consecutive DMX channels will be used instead of only one channel.

- 01) In the initial menu, press <Patch>.
- 02) If the desired fixture library is not available in the console, you can copy it (in R20 format) to the root directory of a USB flash drive. (Note: It must be in the ROOT directory and it must be R20 format.)
- 03) Press <B> [Select a Fixture]. It will access the fixture library in the USB flash drive; if the USB is not inserted, then, it will access the library in the console.
- 04) Press <Up> or <Down> to browse through the library; Press the soft key to select. When a library on the USB flash drive is selected, the library will be added or updated into the console.
- 05) On the second line of the display, the Showtec Creator 2048 shows the DMX address it is going to patch. The third line shows the current output connector A\B\C\D. Press <C> to toggle. You can change the DMX address by turning the Wheel V; or by pressing <D> to get a suitable DMX address automatically.
- 06) To patch only one fixture, press only one fixture button that has not been used; To patch a series of fixtures, press and hold down a fixture button and then press another fixture button, the fixtures will be patched in consecutive DMX address codes. One fixture button can be used to patch only one fixture.
- 07) Repeat steps 5-6 for other fixtures of the same type.
- 08) Press <Exit> to return to the upper menu. Then, you can select fixtures of another type.

Unlike dimmers, two or more fixtures cannot be patched to the same fixture button. If a fixture button is occupied, a new patch cannot be implemented. You have to use another fixture button or delete the fixture from the fixture button.

### 1.3 View the patching

After patching all the fixtures, follow the steps below to ensure that the patched fixtures are right for the controller:

- 01) In the initial menu, press <Patch> to enter Patch menu.
- 02) Press <E> [Patch Information] to view the patching info.
- 03) The button number, fixture name and address code will be displayed in the menu. Press < Up> or <Down> to browse. Press the fixture button to go directly to the fixture.

### 1.4 Changing the DMX address of a fixture

You can re-patch a fixture to a different DMX address or a different DMX output line. All programming is kept.

- 01) In the initial menu, press <Patch> to enter Patch menu.
- 02) Press <C> [Repatch Fixtures].
- 03) On the second line of the display, the Showtec Creator 2048 shows the DMX address it is going to patch. You can change this by turning the Wheel V. The third line shows the output connector.
- 04) Press <C> to change.
- 05) Press the fixture button for to patch the fixture at the new address.
- 06) Press <Enter> to confirm the change.

### 1.5 Deleting a patched fixture

- 01) In the initial menu, press <Patch> to enter Patch menu.
- 02) Press <Delete> to enter Delete Patch menu.
- 03) Press the fixture button corresponding with the fixture that you want to delete.
- 04) Press <Enter> to delete.

You can delete individual DMX channels from a fixture button by modifying the channel number instead of pressing a fixture button. This is useful for deleting dimmer channels from the fixture buttons which have multiple channels patched allocated them. Be careful not to delete individual channels out of fixtures while using this function.

### 1.6 Patch Utilities

The Showtec Creator 2048 allows for several options to be set for each fixture or dimmer. The Patch Options menu is accessed by pressing <D> [Patch utilities], while you are in patch mode. Set the options before you start programming because playbacks will work differently from when the options are on. The options are:

- **Invert** – Allows you to invert an attribute of a fixture. When you set zero, the output will be set to full. Some attributes cannot be inverted.
- 01) In the initial menu, press <Patch> to enter Patch menu.
  - 02) Press <D>[Patch Utilities] to enter Patch Utilities menu.
  - 03) Press <B>[Set Invert]
  - 04) Select the desired fixtures and press the attribute buttons to select the desired attributes. Then, press <B> or <C> on the right-hand side of the screen to modify.
- **Set/Reset Instant Mode** – When the Showtec Creator 2048 LTP faders (movement) channel between two playbacks, the LTP values normally change smoothly. You can set Instant mode to make the channel snap instantly to the new value.
- 01) In the initial menu, press <Patch> to enter Patch menu.
  - 02) Press <D>[Patch Utilities] to enter Patch Utilities menu.
  - 03) Press <C>[Set/Reset Instant Mode].
  - 04) Select the desired fixtures and press the attribute buttons to select the desired attributes. Then, press <B> or <C> on the right-hand side of the screen to modify.

- **Swap Pan & Tilt** - If you have some fixtures mounted sideways, it can be useful to swap the pan and tilt channels.
- 01) In the initial menu, press <Patch> to enter Patch menu.
  - 02) Press <D> [Patch Utilities] to enter Patch Utilities menu.
  - 03) Press <D> [Swap Pan & Tilt] to enter Swap Pan and Tilt.
  - 04) Press <Up> or <Down> to browse the swop info of pan and tilt. You can change the setting with the buttons on the right-hand side of the screen.

## 2 Controlling dimmers and fixtures

### 2.1 Selecting fixtures and dimmers for control

To select the fixtures or dimmer channels that you want to control, use the fixture buttons. You can select fixtures or dimmers individually, or several at once.

- 01) Press the fixture buttons for the fixtures you want. The LED in the fixture button lights up for selected fixtures.
- 02) To select a range of fixtures, press and hold down the fixture button for the first fixture, then press the fixture button for the last fixture.

Notes:

- Press <Locate> to position the selected fixtures in open white at a central position. These values are not loaded into the programmer – they will not be saved in a playback unless you modify the fixture.
- If you want to light up a fixture without moving its position, press <M.L. Menu> then <A> [Locate without P/T].
- You can deselect a fixture by pressing the fixture select button again.
- Once you have changed any attribute, pressing a fixture button will deselect all fixtures and start the selection process again.

### 2.2 Changing attributes of the selected fixtures

"Attributes" are the functions of the fixture, such as: pan, tilt, color, dimmer, etc. You select which attributes you want to modify by pressing the buttons on the top left side of the console and set values by turning the wheels at the bottom of the Showtec Creator 2048. The available attributes depend on the fixture type. Dimmer channels only have a dimmer attribute. Showtec Creator 2048 can control up to 40 attributes per fixture.

Each attribute button controls two attributes, one on the Wheel A and another on the Wheel B.

- 01) Press the button for the attribute to be changed.
- 02) Turn the wheels to set the attribute. The display above the wheels shows which attributes are being controlled.
- 03) Repeat step 1 to change other attributes of the selected fixtures.

Information about attributes:

- The Attribute buttons let you select the first 20 attributes. Another 20 attributes are available by pressing the "Attribute Banks 11-20" button, to cater for the weird and wonderful DMX fixtures of the future. The light on the button stays on when you are using the top 20 attributes.
- If the display above the wheels does not show the attribute when you press the button, that attribute is not available on the selected fixtures.
- If you press the selected attribute button, the attributes will switch to other pages.

There are three operation modes for the sliders above the fixture buttons. Press <Fader Mode> to change the mode:

- Level (Pro): The preset faders are to control the dimmer channels of the fixture button. The data will enter the programmer.
- Level (Run): The preset faders are to control the dimmer channels of the fixture button. The data will not enter the programmer.
- Attribute: To control the attributes of the selected fixtures. The data will enter the programmer.

### 2.3 Grouping

You can create groups of fixtures or dimmer channels, to make selecting them faster. You can, for example, make a group for each type of fixture or group by left/right stage, etc. You can record up to 20 groups.

- 01) Select the desired fixtures for group setting.
- 02) Press <Fixture Group>, then press <Enter>.
- 03) Select a fixture button to save.
- 04) Repeat steps 1-3 to set another group.

To load a fixture group:

- 01) Press <Fixture Group>.
- 02) Press the desired fixture button.

### 2.4 Stepping through Selected Fixture one at a time

If you have selected a range of fixtures, or a group, the Showtec Creator 2048 offers the function with which you can step through the selected fixtures, one at a time. This can make it easier to program a range of fixtures because you do not have to select each one manually.

- 01) Select a range of fixtures or a group.
- 02) Press <←> (Reverse) and <→> (Forward) to select the fixtures in the range, one at a time.
- 03) Press <HiLight> button to highlight the output of the selected fixture, so that you can see it on site (the button LED is lit, when in Highlight mode).
- 04) Press <All> button to reselect all the previously selected fixtures.

Press <Odd> or <Even> and the fixtures at the odd/eve positions will be selected.

### 2.5 The Align function

The **Align** function allows you to copy an attribute from one fixture to the other ones. This can be useful if you want to set a row of scans to have the same tilt position, or if you want to copy a color from one fixture onto the other fixtures.

- 01) Press the attribute button that you want to align.
- 02) Select the fixture to use as the reference.
- 03) Select the other fixtures which you want to align to the first one.
- 04) Press <M.L. Menu>, then press <C> [Align Attribute].
- 05) The attributes will be copied to all the selected fixtures.

You can align all attributes of the fixtures using <B> [Align Fixtures]. (It does not matter which attribute is selected).

### 2.6 Flip Function

The flip function is mainly used for moving heads. This type of fixture has two possible pan and tilt positions for each point on stage, and this function alternates between them. This gives you more freedom to make movement without hitting the pan stop.

- 01) Select desired fixtures to flip.
- 02) Press <ML>.
- 03) Press <D>.

## 2.7 Fan Mode

Fan mode automatically spreads out the values on a selected range of fixtures. If used on pan and tilt, the result is spreading out "rays" of light beams. The first and last fixtures of the range are affected most, and the central fixtures are affected least. The amount of fan can be set by turning the wheels. When it comes to the shapes, the order in which you select the fixtures sets how the fan effect works. The fan effect can be applied to any attribute, not only to pan or tilt.

- 01) Select the fixtures which you want to fan.
- 02) Select the attributes to fan (Pan/Tilt or Color, etc).
- 03) Press <Fan>.
- 04) Set the amount of fan by turning the wheels.
- 05) The controllable attributes will be displayed in the bottom two lines on the screen.
- 06) Turn off Fan mode by pressing <Fan> again, once you have finished.

Fan mode needs to be used on at least 4 fixtures to give satisfactory effects. If you have an odd number of fixtures, the central fixture will not move in fan mode. Press the Fan button again to exit Fan mode. Any effects which you have set will remain in the programmer.

It is fairly easy to accidentally leave Fan mode turned on and be very confused about why the wheels are not working properly, so turn it off as soon as you have completed the effect.

## 2.8 Advanced Options

There are more than two pages of advanced options under <ML> menu. Press <Up> or <Down> to toggle through them.

- **Locate Fix. No P/T:** turns on the selected fixtures but does not move them to a central position. This is useful if you do not want to disturb the positioning of fixtures but need to light them up. The settings for each type of fixture are defined in the personality file.
- **Align:** Refer to section 5.5.
- **Flip:** Refer to section 5.6.
- **De-Select fixtures** deselects all fixtures but does not clear the programmer.
- **Macro:** Can be used for lighting up the fixtures or to auto check them, which shall be set in the personality file in advance.
- **Flip Pan:** Flips the pan movement of fixtures.
- **Flip Tilt:** Flips the tilt movement of fixtures.
- **Remove Shape Temp.:** This function can be used when we want to move two fixtures, which are running a shape, to a certain point.

### 3 Palette

When in programming, you will find some of the positions or colors frequently used. The console allows you to store the frequently used data, like an artist using his palette. Therefore, you can access such data quickly by pressing a single button. 20x5 pages of palettes are available in the console.

Actually, when patching a fixture, Showtec Creator 2048 will automatically load 10 preset positions, 10 colors and 10 gobos into the palette of this fixture. That allows you to apply a specific color and/or gobo without searching. Normally, the positions shall be edited in advance but the preset palettes shall be provided in the personality files.

#### 3.1 Customize palette

Showtec Creator 2048 allows you to select the ways of using palettes, according to your preferences. Press <Setup>, then press <Down> to scroll down. Press <A> [User Setting]. You will find the 2 following options:

- **Save Pal. not link A / Save Pal. link Attr.:** When recording a palette entry, you can select to link it to attributes or not. If so, then only the data of the selected attributes in the programmer will be recorded. Otherwise, all the data in the programmer will be recorded.
- **Use Pal. not link At / Use Pal. link Attr.:** When loading a palette entry, you can select to link to attributes or not. If so, only the data of the selected attributes will be loaded; otherwise, all the data will be loaded.

#### 3.2 Palette Page

The Creator 2048 is equipped with the function which allows for the palettes to follow the fixture pages or to remain on page 1.

- 01) Press <Setup>, Page Down, select <A> (user settings).
- 02) Select Option <E> (palette page ON/OFF).

#### 3.3 Shared and individual Palette

Palette entries can be shared or individual.

- **Shared:** If there is only one fixture in the programmer (you have only changed one fixture) when recording the palette entry, then you can use that palette entry for all fixtures of the same type. You could save a value for "Red" on the first of your fixtures, and then use that value for any of your other fixtures. This is a shared palette, useful for values which are the same for all the fixtures of one type, such as color, gobo, prism etc. The preprogrammed palettes are all shared.
- **Individual:** When recording palette entries, if there is more than one fixture in the programmer, then, the palette entries are individual to each fixture.

#### 3.4 Which attributes are stored in palettes

A palette entry can store any or all attributes of a fixture, so you could store position, color and gobo in the same palette entry. However, it is easier to operate the Showtec Creator 2048 if you have some palettes for position, some for color, some for gobo and so on. There are 100 palettes available so you do not need to mix them up.

#### 3.5 Storing a palette

- 01) Press <Clear> to clear the programmer.
  - 02) Select the fixtures which you want to store palette values for.
  - 03) Press the attribute buttons and turn the wheels to set the attributes you want in the palette entry. You can store any or all attributes of a fixture in each palette entry. Only attributes you have changed will be recorded.
  - 04) If you have selected [Save Pal. link Attr] in [User Settings], then you need to select the attribute buttons for the attributes you want to store (the dimmer button will store all attributes). It is better to save only one type of attribute (e.g. Tilt/Pan).
  - 05) Press <Save Palette>, then press <C> to choose a mode. Press <E> to choose [Record by fixture] or [Record by channel]. Press <Palette> to save.
- If you have selected [Save Pal. link Attr] in [User Settings], then when storing the palette values, only the data of the selected attributes will be stored. If you want to store all the data that you have

modified, you can set the attribute button to the dimmer attribute or change to [Save Pal. not link A] in [User Settings].

- When you select to Record by Fixture, all the data of the modified fixtures will be recorded. Then, it is nothing about the selected attributes. This way can be used in Mode 1 and Mode 2 (refer to the next section).

### 3.6 Palette modes

There are 4 palette modes for different arenas. Read below about how to set the palette mode:

01) Press <Time/Mode >.

02) Press the desired palette button to modify the mode.

03) Select the desired option. Press <Up>/<Down> to scroll through the menu.

- **Mode 0:** Recalling a palette in this mode, data will be output directly without entering the programmer. Such data can be overwritten by scene data. The dimmer data will not output.
- **Mode 1:** Recalling a palette in this mode, data will be output after pressing the palette button. The indicator of the palette button will keep on flashing, while running. Press the same palette button again, to stop. The data before running the palette will be recovered and the indicator will stop flashing. Scene data cannot overwrite the related channel data from the running palette.
- **Mode 2:** Recalling a palette in this mode, data will be output when the palette button is pressed and held. The indicator of the palette button will keep on flashing, while running. Release the palette button to stop. The data before running the palette will be recovered and the indicator will stop flashing. Scene data cannot overwrite the related channel data from the running palette.
- **Mode 3:** Recalling a palette in this mode, data will be output directly and will enter the programmer and take over the output of scene data. This is the traditional way of recalling a palette.

### 3.7 Recalling a palette value

Read below about how to recall a palette value.

01) Select the fixtures.

02) If you have selected [Save Pal. link Attr] in [User Settings], then you need to select attributes to load the relevant data. The dimmer attribute can load all the data in the palette. If you have selected [Save Pal. link Attr] in [User Settings], then all the data of the palette will be loaded directly.

03) Press <Palette> to recall it.

- It is the easiest if you only save one type of attribute (such as pan/tilt) into each palette. Then you can just leave the dimmer attribute button selected when recalling the palette. If you store a mixture of attributes, you always have to make sure that the correct attributes are selected when recalling a palette. This is an extra step which you could do without.
- When in Palette mode 3, the data will enter the programmer and take over the scene output. Therefore, when in a show the scene is outputting white light, we can recall a palette to change it to red light. If you want to go back to white light, it does not work to move the playback slider up again or to press the scene button. You have to press <Clear> first and then load the scene again.

### 3.8 Delete a Palette

Press <Delete>, then press the desired <Palette> button twice to delete.

## 4 Shapes

A shape is simply a sequence of values which can be applied to any attribute of a fixture. A “circular” shape, for example, applied to the pan and tilt attributes, would cause the fixture to move its beam around in a circular pattern. You can set the center point of the circle, the size of the circle and the speed of the circle movement.

In addition to beam position shapes, there is a large number of other shapes available in this console. The shapes are defined for a particular attribute, such as: color, dimmer, focus, etc. Some shapes will not work with some fixtures; focus shapes, for example, can produce nice “focus pull” effects on fixtures which have DMX focusing, but will do nothing on fixtures which do not have focusing.

When you use a shape with more than one fixture, you can choose to either apply the shape identically to all the fixtures, or offset them so that the shape runs along the fixtures creating “wave” or “ballyhoo” effects. This is called the spread of the shape.

### 4.1 Selecting a shape

Selecting a shape is very similar to selecting a value from a palette. When you choose a shape, it will be applied to all selected fixtures.

- 01) Select the fixtures the shape is to be applied to.
  - 02) In the initial menu, press <Shape>.
  - 03) Press <A> [Playback a Shape].
  - 04) Select a shape type: Pan/Tilt shape, dimmer shape, RGB shape, CMY shape, color wheel shape, gobo wheel shape, focus shape and iris shape.
  - 05) Press <Up> or <Down> to browse and confirm with a soft key.
- Most shapes are based on the current settings of the fixture, so a circle would move around the current pan-tilt position of the fixture.
  - If the shape description says “Even” or “Parallel”, this describes the spread of the shape. You can always change this later.
  - You can change the base value of a shape (e.g. the center of a circle) by changing the attributes by turning the wheels in the usual way. You can reduce the size to zero (see next section) to help you see what the base value actually is.
  - You can run up to 5 shapes at a time by repeating the above procedure. Showtec Creator 2048 supports up to 8 shapes which can be run simultaneously.
  - In the Shape menu, press <B>[Edit a Shape] to view the running status of the shapes.
  - To apply the same shapes to two different groups of fixtures, the shapes will appear twice on the list. You can adjust the “two” shapes individually.
  - To delete a shape, press <Shape>, press <Delete>, select the desired shape and then press <Enter> to delete.
  - Each shape works with specific attributes. If a certain attribute is not available on a fixture, then, the related shapes will not apply to the fixture.
  - The block shapes have the highest priority. The shapes of the same type are of secondary importance.

### 4.2 Shape Parameters

It is quite easy to modify the range and the speed after a shape is selected. To create the most wonderful shape effects, the more fixtures the better.

- 01) In the initial menu, press <Shape>.
- 02) Press <C> [Shape Parameters].
- 03) Highlight the desired shape by pressing a soft key. Then, adjust the value with <Wheel Value>.

If there are many shapes running together, the operation will only be applied to the current shape. In [Edit a Shape], you can edit the parameters of any running shapes.

In total, there are 3 pages of shape parameters; Press <Up>/<Down> to scroll. The parameters are:

- **Size:** The channel data range. When at 0, the shape will be paused.
- **Speed:** The running speed of the shape. When at 0, the shape will be paused.
- **Repeat (Drg.):** The period of a shape is 360°. It is the interval angle between two nearby fixtures.
- **Spread:** It shows the total fixture number (not including the first fixture) in a shape period. When the value=none, all the fixtures will perform the same movements; When the value=1, then, the first fixture and the third fixture will act the same. When the value=2, then, the first fixture and the fourth fixture will act the same. When the value=even, then, the all the fixtures will be distributed evenly in the shape period to create an even wave.
- **Direction:** There are four directions for shapes, including "<-", "->", "<-->" and "--<-". "<-->" and "--><-" can have shapes run in symmetry.
- **Run Mode:** Shapes have 3 run modes: **Loop Playback**, **Bounce** and **Stop on Final Process**. The 3 run modes are based on "Start Process" and "End Process".
  - **Loop Playback:** The shape starts from Start Process. Once the End Process is finished, it will start again from Start Process.
  - **Bounce:** The shape starts from Start Process. Once the End Process is finished, it will run in opposite direction towards Start Process, and then, start again.
  - **Stop on Final Process:** The shape starts from Start Process. Once the End Process is finished, it will stop at the last offset.
- **Center:** This is to set shapes to run regardless of the current setting being the center or not. "Relative" means to run the shapes while the current setting being the center. "Absolutely" means that the shape is run regardless of the current setting.
- **Width 1:** This is the time ratio of the shape's running and stopping. It cannot be used together with Width 2.
- **Width 2:** This is the fixture proportion of the shape running at the same time. It cannot be used together with Width 1.
- **Quick Group:** It can be used for grouping the shapes in a fast way. Fixtures from the same group will act the same.
- **Advanced Group:** Sometimes we need several fixtures to run a shape as a group. In this case, we can use the Group function. Press <E> [Group] to enter the group menu. In the menu, you will find the following options:
  - **Number of groups:** It shows how many groups we need to define. At this time, [Spread] does not mean the fixture quantity, but the group quantity.
  - **Group Number:** The fixture buttons of the group number will light up, the other ones will be off. To add a fixture into the group number, simply press the fixture button to light it up. If you press any button by mistake, you have to go back to the setting of the original fixture group.
  - **Auto group:** The fixtures will automatically be grouped evenly in consequent order.
  - **Increase group:** The fixture number will ascend by 1.
  - **Reset:** Reset the group number to fixture number and group again automatically.
- **Start Process:** You can define the start position by yourself.
- **Offset degree:** The initial shape's offset degree is customizable.
- **End Process:** You can define the end position by yourself. When the run mode of the shape is in Stop on Final Process, you can adjust the End Process to adjust the offset of the fixtures.
- **Reload:** To run the shape again. Thus, you can view the entire running of the shape.
- **Remove & Remain Offset:** The shapes to run simultaneously are limited in number. When we create a nice static effect with the shapes and we want to record it as a scene, we can use this option to record the offset to the programmer and remove the shape, then, save it as a scene or a chase.

### 4.3 Edit a Running Shape

Option <B> [Edit a Shape] in Shape menu can be used for editing a running shape. Only the selected shape can be edited. The shapes in a scene cannot be edited here.

- 01) In the initial menu, Press <Shape>.
- 02) Press <B> [Edit a Shape].
- 03) The screen shows the shapes that can be edited.
- 04) Press a soft key to highlight (select) a shape.
- 05) Exit and then edit the parameters of the shape.

#### 4.4 Remove a Shape from Fixtures

Shapes can be removed from fixtures.

- 01) In the initial menu, Press <Shape>.
- 02) Select the fixtures from which the shape will be removed; then, highlight (select) a shape in [Edit a Shape].
- 03) Press <D> [Remove Shape of fix.] to remove.

#### 4.5 Delete a Shape

- 01) In the initial menu, Press <Shape>.
- 02) Press <Delete>.
- 03) Press a soft key to highlight (select) a desired shape.
- 04) Press <Enter> to delete.

#### 4.6 Relative Shapes and Absolute Shapes

Some shapes will operate with the current settings of the fixture; a circular shape, for example, will be centered around the current pan and tilt positions of the fixture. This is called a **relative** shape. If you change the pan and tilt of the fixture, the whole shape will be moved.

- All Position (pan/tilt) shapes, and other shapes with "User" or "Usr" in the name, are Relative shapes.

Other shapes always operate with a fixed value; a rainbow shape, for example, is centered at the midpoint of the color mix attributes, so that a full range of colors is obtained. This is called an **absolute** shape. The current settings of the fixture are overwritten by the shape.

- Non-position shapes (color, gobo, focus, dimmer, iris) are usually absolute shapes, unless they have "User" or "Usr" in the name. For example, "Magenta Even" is an absolute shape, centered on 50% magenta, but "Magenta Even Usr" is a relative shape which will change around the current magenta value of the fixture.

If you run a scene containing a shape, when you turn the scene off the shape will stop.

#### 4.7 Playback Parameters

This option lets you set parameters for a shape, stored in a playback / scene. When a scene fades in, you can determine whether the shape should start at full size and speed up instantly, (static) or whether the shape speed and /or size should fade in as well (timed).

- 01) In Shape Menu, Press <E>[Playback Parameters]. Then press <Playback> of the playback which you want to set parameters for.
- 02) Press <A> to set the size to Static or Timed.
- 03) Press <B> to set the speed to Static or Timed.
- 04) <C> allows you to remove the offset caused by a shape when it is stopped.

## 5 Scenes

There are many functions in the controller with which you can create a complicated light effect; and, the most fundamental part is a scene, in which you can store the "look" you have created using your light.

There are 15 scene buttons on 10 pages. A maximum of 150 scenes and chases can be stored.

### 5.1 Creating a Scene

This console has a special internal scene called the "programmer". Whenever you change an attribute of a fixture, the changes are stored in the programmer. When you record a scene, the contents of the programmer are stored in the scene. Nothing else from the console output is stored.

This console has two programming modes, "Record by Fixture" (the normal mode) and "Record by Channel". You can change the mode by pressing <B> when storing a scene. The differences between these two modes are:

- **Record by Fixture** - When you change any attribute of a fixture, all the other attributes are placed in the Programmer as well. You will get exactly the result you expected when you recall the scene, but you cannot combine scenes containing the same fixtures, because the new scene will just override the old one.
- **Record by Channel** - Only the attribute you change is placed in the programmer. This means you can save scenes which only contain position information, then recall them with other scenes to set colors, gobos etc. This is much more flexible but initially requires more programming, because you need several scenes to get a result. It also lays you open to problems if you do not keep tabs on what you are doing. (This is known as Tracking mode on other consoles).

When you press <Clear>, all fixtures are erased from the programmer. You should get into the habit of pressing <Clear> before you start to program a scene, or you can end up recording fixtures you do not want. You also need to press <Clear> when you finish programming, because any functions in the programmer will override playbacks.

Turning on a scene does not place the values from the scene in the programmer (but Include function allows you to do this). The Locate Fixture function does not place any values in the programmer either.

- 01) Press <Clear> to clear the programmer. This ensures that you are starting with a clean slate.
- 02) Set up the stage effect using the fixtures. You can include shapes in a scene. Remember that only the fixtures you have changed will be included in the scene.
- 03) Press <Scene>.
- 04) Empty Scenes will flash.
- 05) Press the playback button of a flashing playback to record it. (Select a new page first if you want to use a different page).
- 06) Press <Clear> to clear the programmer. Repeat steps 2-5 to program more scenes.

Information about scenes:

- You can record the whole output of the console (not just what is in the programmer) by pressing <B> [Record Stage]. The option will highlight when Record stage mode is active. Normally, this option will not be used.
- The grids above each playback fader/button allow you to write on the name of the scene, using the low-tech but reliable method of marker pen (use a strip of tape on the surface). You can then see at a glance what is in each scene.

### 5.2 Using shapes in Scenes

As you would expect, any shapes you have set up will be saved as part of the scene.

If the base value of the shape is not in the programmer (e.g. the central pan/tilt position, for a circle), and the shape is a "User" type, then the scene will contain a "relative" shape. When you recall the scene, the shape will start based on the current position of the fixture. This allows you to create lots of different effects by layering a few different scenes - one for the shape, one for the base position. You can either use "Record by channel" mode, and not set the position, or use the "Off" function to achieve this effect.

### 5.3 HTP and LTP channels

The Showtec Creator 2048 can treat control channels in two ways:

- Dimmer or intensity channels work on the principle of "highest takes precedence" (HTP). If an HTP channel is turned on at different levels in several scenes, the highest level will be output. When you fade a scene, the HTP channels fade out with it.
- Moving light channels work on the principle of "latest takes precedence" (LTP). The latest change takes over from any other values, so the most recent scene to be turned on is the one which is output. When you fade a scene, LTP channels do not normally fade (though you can make them if you want, except for channels set to instant). They set their full values when the scene starts to fade in, and stay there until another value is set. (You can set the value in User settings menu).

The fixture personality file tells the console which channels of a fixture are HTP channels and which are LTP ones. Normally, only dimmer attributes are HTP, and everything else is LTP. If a fixture does not have an intensity control channel, the gobo channel is defined as HTP to make sure that the fixture blacks out when a scene is turned off.

### 5.4 Playing back a Scene

To playback a scene, just move up the playback slider or press the playback button. (Make sure there are no values in the programmer. Do this by pressing the <Clear> button, because anything in the programmer will override the playback).

- You can turn on multiple scenes at once.
- All the HTP (intensity) of the scenes fade in/out as the slider is up/down. The LTP (movement) channels will start immediately once the slider is not set to zero. (The LTP channels also run like this when the scenes are in Mode 1 or Mode 2, unless the channels are set without fading function in the fixture library).
- To flash control a scene while other scenes are stopped, we can use the swop function. Press <Swop> (indicator on), then you can flash the scenes.

### 5.5 Editing a Scene

You can edit any part of a saved Scene:

- 01) Press <Clear> to empty the programmer.
- 02) Turn on the scene you want to edit, so you can see what you are doing. Turn off all the other scenes to avoid confusion.
- 03) Select the fixtures you want to change, and make the changes.
- 04) Press <Scene> button.
- 05) Press <Playback> button of the scene you are editing.
- 06) The console will tell you if the scene already exists on playback.
- 07) Press <A> [Merge Scene] to amend the existing scene. Unchanged information is not affected.

- If you are in "Record by fixture" mode, all attributes of any fixture you have changed will be saved in the scene with their current settings. If you only want to save certain attributes of a fixture, you need to use "Record by channel" mode.
- You can overwrite the existing scene entirely using <B> [Replace Scene]. This erases the playback and saves the current programmer as a new scene.
- If the scene contains shapes, and you have selected some new shapes, the original shapes in the scene will be deleted (after a warning). To avoid it, you need to use Include function on the original scene (see next section) to load the shapes into the programmer. Ensure that the playback fader for the scene is set to zero (i.e. the shape is not active) when including the scene.

### 5.6 Include function

Include function lets you load selected parts of a scene back into the programmer. (Normally, only manual changes to fixtures are put in the programmer). You can then use this to make a new scene. This is useful if you want to make a scene which is similar to the one you already have.

- Press <Copy/Include>.
- Press the <Playback> button of the desired scene, then press <Enter> to include the data.

### 5.7 The "Off" button

The Off button allows you to remove an attribute which has been stored in a scene, as if you never recorded it.

For example, suppose that you recorded a scene which had scans at a certain position, with the color set to green. If you later decide that you do not want the recorded color at all in that scene, as you want the previous color setting of the scans to be used, use the Off function to turn off the color in the scene.

You can also use the Off function to remove complete fixtures from a scene.

Pressing the Off button is not the same as recording an attribute at zero. It is like not recording the attribute at all.

- 01) Turn on the scene you want to edit, so that you can see what you are doing.
- 02) Select the fixtures you want to change.
- 03) Press <OFF> (one of the blue command buttons) to display the Off menu.
- 04) To switch off all attributes of the selected fixtures, press <B> [OFF Selected Fixtures].
- 05) To switch off selected attributes, press the appropriate attribute button, then use <C> and <D> to set each attribute to Off. (The screen shows which attribute will be turned off for each button.)
- 06) Press <Scene>
- 07) Press playback button for the scene you are editing to save the changes. Unchanged information is not affected.

- Attributes which are Off are shown on the screen. (The stage output will not change as the output values remain at their last settings).
- Attributes or fixtures set to "Off" can be turned back on again by selecting them in the usual way and changing them by turning the wheels.
- You can also use this function to turn off fixtures or attributes in a palette entry. Use the procedure above, but instead of editing and recording a scene, edit and record a palette entry instead.

### 5.8 Copy a Scene

- 01) Press <Copy/Include>.
- 02) Press a <Playback> button that stores a scene.
- 03) Press an empty <Playback> button to copy.

### 5.9 Delete a Scene

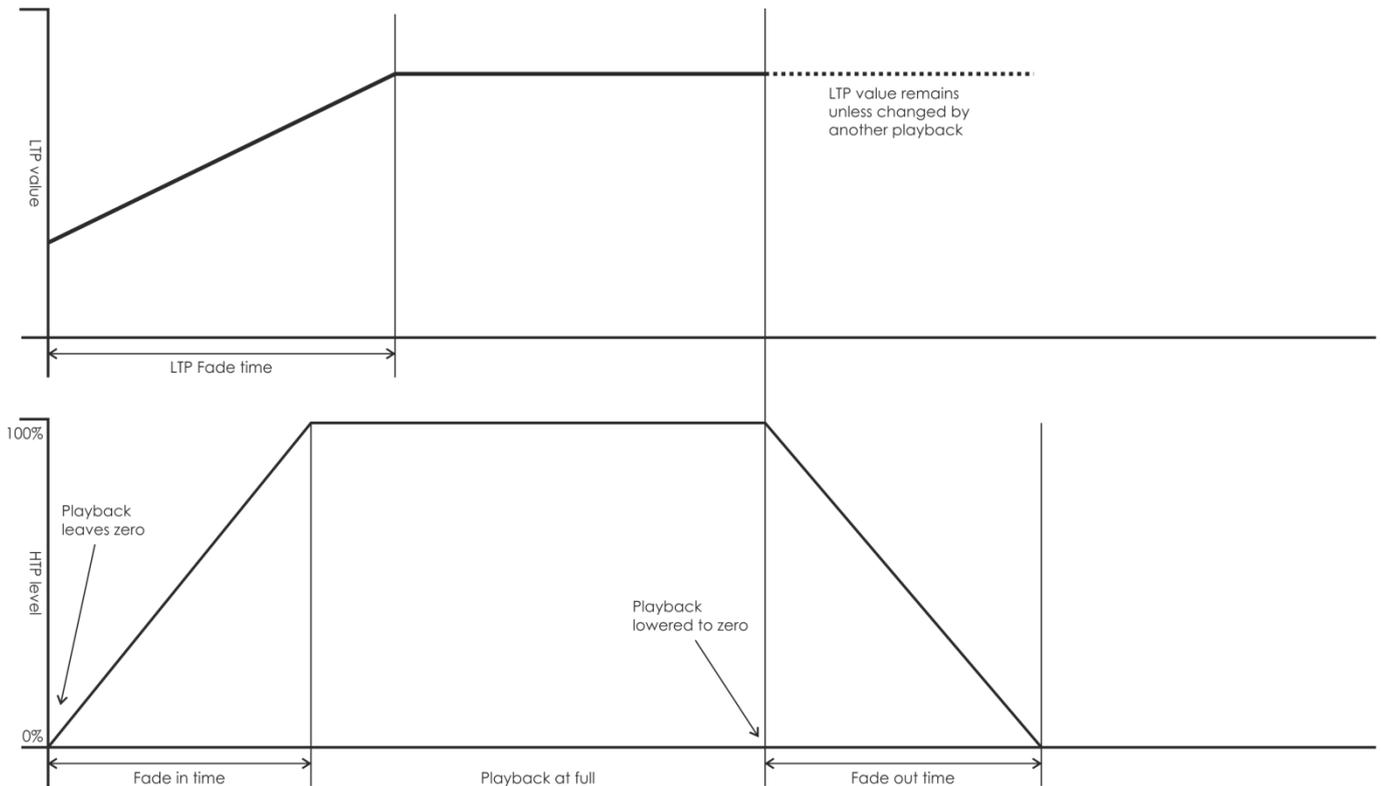
In order to delete a scene, follow the steps below.

- 01) Press <Delete>.
- 02) Press a desired <Playback> button.
- 03) Press the <Playback> again to delete.

### 5.10 Time

You can set a fade in and fade out time independently for every scene. The fades only affect HTP (intensity) channels. There is a separate LTP timer which allows you to set movement times. LTP channels which were set to "instant" during patching ignore LTP fade times.

- 01) Press <Time/Mode>.
- 02) Press the playback button of the playback you want to set times for.
- 03) There are two pages in the menu. Press <Up> or <Down> to browse. Select the desired option and modify the data with the <Wheel V>.
- 04) Press <Enter> twice to save and exit or press <Exit> twice to exit without saving.



The effect of the times is shown on the diagram above.

The times you enter are also affected by the scene mode:

- **Mode 0** – No timing information is used. The HTP channels faded by means of the playback faders, between 0-100%.
- **Mode 1** – Channels fade according to the set HTP and LTP fade times (except for Instant LTP channels). If you enter times for a Mode 0 scene, it will automatically change to Mode 1. If HTP times are set to zero, the HTP levels will fade with the fader.
- **Mode 2** – HTP channels fade according to the set HTP times, or with the fader if times are set to zero. LTP channels are controlled by the fader position (except Instant channels). The initial data of LTP is the data before the slider is moved up. Set the LTP fade time to 0 to use this mode.
- **Mode 3** – HTP channels fade according to the set HTP times, or with the fader if times are set to zero. LTP channels are controlled by the fader position (except for Instant channels). The initial data of LTP is 0. Set the LTP fade time to 0 to use this mode.

### 5.11 Overlap

This function allows fixtures in a scene to run one after another, instead of running at the same time. In Save a Scene menu or Time Editing menu, you can switch overlap on or off. Once a scene in Mode 2 is set to overlap on, then this scene will play the overlap effect as you move its fader up; If the scene includes fade time setting, then it will play the overlap effect as LTP fade time goes by.

In the Timing menu you can find the following options:

**Quick Group** - To group in a fast way. Fixtures in the same group will act the same.

**Advanced Group** - Sometimes we need several fixtures to run as a group. In this case, we can use the Group function.

01) Press <E> [Group] to enter the group menu.

02) In the menu you will find the following options:

- **Number of groups:** Set the number of groups you need to define.
- **Group Number:** The fixture buttons of the group number will light up; the other buttons will turn off. To add a fixture into the group number, simply press the fixture button to light it up.
- **Auto group:** The fixtures will automatically be grouped in consequent order.
- **Increase group:** The fixture number will ascend by 1.
- **Reset:** Set the group number to fixture number and group again automatically.

### 5.12 Priority

The Priority options allow to set the way in which the playbacks run. Priority options include Lowest, Low, Normal, High and Highest. The default priority for a new playback is Normal. It is a very useful function, if you are running a playback with a fixture and then want to run a new playback at the same or higher priority. In this case, the new playback will take over the old one. If the new playback is of a lower priority, then the previously chosen playback will remain active.

## 6 Chase

In the console, one chase can be edited with up to 600 steps.

### 6.1 Programming a chase

To program a chase, you have to set up the lighting for each step of the chase, then save it. The content of the programmer is recorded as a step.

You can either set all the fixtures and dimmers manually for each step, or you can press the Include button to load the information from scenes you have already recorded.

You cannot use an existing scene as a chase step just by turning it on. You need to use the Include button to load the scene into the programmer.

- 01) Press <Chase>.
  - 02) Press the playback button of the playback where you want to store the chase.
  - 03) Set up the lighting for the first step, either manually or by pressing the Include button on existing scenes.
  - 04) Press the playback button of the playback or press Enter to store the programmer content as step 1 of the chase.
  - 05) Press <Clear>, then repeat from step 3.
  - 06) Once you have finished, press <Chase>, or press <Exit> to exit.
- Press <Clear> when you have finished saving the chase. Otherwise, when you try to play it back the programmer will override the chase and you will not see the chase properly.
  - The current step number is displayed in the prompt line.
  - You can record shapes in a chase. If the same shape is saved in subsequent steps it will continue from step to step, if not, it will stop at the end of the step time. (The console considers the shape to be the same, if you did not press <Clear> after the previous step, and did not change the speed, size or spread of the shape from the previous step; or if you Included the shape from the previous step and have not modified it).
  - A maximum of 600 steps can be edited in a chase.

### 6.2 Running a chase

Move up a playback fader or press a playback button. The selected chase will be run.

- Two or more chases can be output simultaneously.
- All the HTP channels (brightness) of the chases are controlled by faders. The LTP (movement) channels will implement the chase, according to the fade time.
- Press <Swop> (indicator on), then you can control a certain chase while other playbacks are stopped.

### 6.3 Connecting a chase to the controls

When running a chase, the playback control will automatically connect to chases.

- By pressing <Connect> and then pressing the desired <Playback> button of chase, it is possible to set which chase to connect for playback control.

### 6.4 Setting speed, crossfade and direction

Run a chase, then you can turn the wheels to adjust speed and fade time.

- **Speed:** The interval time between two steps. But, the "time" here is the global time. If some steps are set with special time, then, it will run according to its own time.
- **Crossfade:** Within the interval time between two steps, the ratio of Wait Time to Fade Time. The three pieces of data on the screen are fading in slope ratio, fade out slope ratio and LTP slope ratio. FF means it is all slope time during the total time and the Wait Time is 0; When the value is 70, it means 70% of the total time is slope time and rest is Wait Time.
  - **Wait Time:** For example, a fixture is going to move from Point A to Point B. If the Wait Time is set to 3 seconds, then, the fixture will stop at Point A for 3 seconds and then will start moving.
  - **Fade Time:** For example, a fixture is going to move from Point A to Point B. If the Fade Time is set to 3 seconds, then, the movement of the fixture from Point A to Point B will last for 3 seconds.

Once the chase speed is saved, it will run at this speed in the entire future playback:

- 01) Turn the <Wheel A> to adjust the speed.
- 02) In the initial menu, select [Chase Parameters].
- 03) Press <A> [Save Speed].

- When a chase is running and you turn the wheels to do something like manually adjusting the positions of some fixtures, then you can press <Connect> + <B> [Speed/Cross] to change the mode of the wheels.
- Set the chase to the speed at the time of editing, press <Connect> + <A >[Clear Temp. Time].
- Chase direction is controlled by <Go+> and <Go->. Direction can be saved in a chase, for future running: Press B [Chase Parameters] + <B >[Save Direction].

### 6.5 Manually controlling the chase step

Press <Stop>. Now, the chase can be controlled manually. If the chase is set as "Link=Close", then it will automatically change to manual control. See below for more information about "Link."

- Press <Go+> or <Go-> to restart the chase.

### 6.6 Add a Step

Adding a step is similar to editing a chase step. Press <Chase> and press <Playback> button of a chase, then do the same as while recording a new step. The new step will be recorded as the final step of the chase.

### 6.7 Unfold a Chase for Editing

Showtec Creator 2048 is equipped with a powerful chase editing system. Pressing <Unfold> will unfold the steps of a chase to playback buttons; each step functions like a scene for separate running and editing.

- 01) Press < Unfold > and press the desired <Playback> button for editing.
  - 02) The first 15 steps of the chase will be applied to <Playback> 1-15.
  - 03) Move up a playback slider or press a playback button to output the step data.
  - 04) The options of the unfold Chase menu are described below.
  - 05) Press < Unfold > again to exit the mode.
- Edit a step: Press <Clear> to clear the programmer. Move up the slider or press the button to modify. Press <C> [Save a step], then press one button in <Playback> 1-15. You can further select Merge, Overwrite or Insert.
  - Adjust the step time, select [Edit Time] and press the <Playback>, Then, adjust the time.
  - To insert a new step, you need to set the effects of the new step first. Press <C> [Save a Step] and press the <Playback> button which you will allocate it to. Press <D> [Insert a Step]. The new step will be inserted and the following steps will be pushed back by one step.
  - To delete a step, press <Delete>, then press the desired <Playback>. Press <Enter> to confirm.
  - To copy a step, press <Clear> to clear the programmer, then press the desired <Playback> to send its data to the programmer and save.
  - If there are more than 15 steps in a chase, press <Up> or <Down> to turn the pages.
  - You can add a shape in the chase by pressing <Shape Generator>.

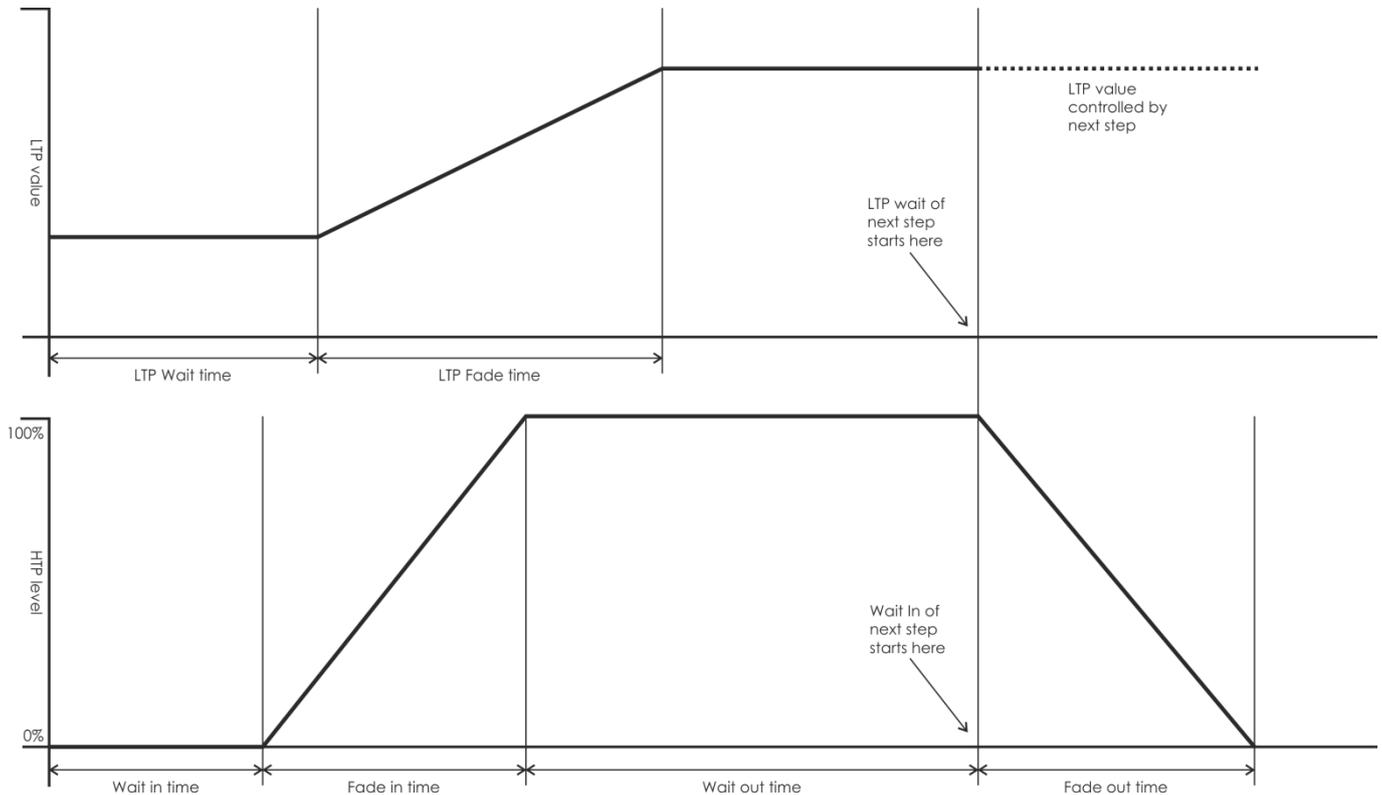
### 6.8 Delete a Chase

Deleting a chase is similar to deleting a scene. Press <Delete>, then press the desired playback button twice.

### 6.9 The global time of a chase

To set the global time for a chase:

- 01) Press <Time/Mode> and press a chase <Playback>.
- 02) Press <Up> or <Down> to turn the pages. Press <A>-<E> to select an option. Use <Wheel Value> to adjust the value.
- 03) On Page 2 of the Time menu, there is a "Link" option. If "Link" is set to ON, the chase will run step by step automatically. If "Link" is set to OFF, you need to press <Go+> or <Go-> to run the steps one after another.
- 04) Press <Enter> twice to save and exit, or press <Exit> to exit without saving.



The time options include (see the figure on the previous page):

[Wait Fade In] – The wait time before an HTP channel fading in

[Wait Fade Out] – The wait time before an HTP channel fading out

[Fade In] – The fade in time of an HTP channel

[Fade Out] – The fade out time of an HTP channel

[LTP Slope] – The fading time of an LTP channel

[LTP Wait] – The wait time before an LTP channel fading

[Slope] – The fading time of LTP channel.

[Connect] – If close the connection, then, the scene running will be paused at this step until <Go+> or <Go-> is pressed.

### 6.10 Set separate time for a step

Fade in/out time can be set to each single step separately. A chase step with separate time is called a complex step; if it is using the global time, then, it is a simple step. To set separate time for each step, you can use <Unfold> for easy operation.

- 01) Press <Unfold>, and then press the playback button of the chase.
  - 02) Press <Time/Mode>, and then press the playback button of the step.
  - 03) Press <Up> or <Down> to turn the pages. Press <A>-<E> to select an option. Use <Wheel Value> to adjust the value.
  - 04) Press <Enter> twice to save and exit.
- Any modification will turn a step into a complex step.
  - To convert a complex step back to a simple step, you can press the <Fixture Menu> button in the time editing menu to change.

### 6.11 Advanced Options

Each chase has options which can be set to affect the way it runs. Press <Chase Parameters>. You need to have a chase "connected" first.

The options are:

- [Save Speed] – saves the current speed of the chase (set using the wheel A/B).
- [Save Direction] – save the direction of the chase by using <Go+> and <Go->.
- [Loop Playback/Bounce/Stop on final step] - makes the chase stop on the final step. If the final step is a blackout, the chase will appear to turn itself off, so you can just press Go, whenever you want to make it happen again.
- [Skip Time Options] - Allows you to skip the first wait and/or fade of a chase. You often want to do this so the chase starts as soon as you move the fader. (Press the button to cycle through options):
  - Skip first wait time (The wait time is skipped when the chase is first turned on).
  - Skip first all time (All times are skipped when the chase is first turned on).
  - Wait and Fade for all steps (All times will be implemented when the chase is turned on).
- [Sound] - Trigger chase by sound. Set Link to OFF.

### 6.12 Overlap

The overlap function is powerful. It allows fixtures in a scene to run one after another, instead of running at the same time. In Time Editing menu, you can switch overlap on or off. If overlap is switched on, then it will play the overlap effect as the LTP fade time goes by.

In the timing menu you can find the following options:

**Quick Group** - To group in a fast way. Fixtures in the same group will act the same.

**Advanced Group** - Sometimes we need several fixtures to run as a group. In this case, we can use the Group function.

- 01) Press <E> [Group] to enter the group menu.
- 02) In the menu you will find the following options:
  - **Number of groups:** Set the number of groups you need to define.
  - **Group Number:** The fixture buttons of the group number will light up; the other buttons will turn off. To add a fixture into the group number, simply press the fixture button to light it up.
  - **Auto group:** The fixtures will automatically be grouped in consequent order.
  - **Increase group:** The fixture number will ascend by 1.
  - **Reset:** Set the group number to fixture number and group again automatically.

### 6.13 Priority

The Priority options allow to set the way in which the playbacks run. Priority options include Lowest, Low, Normal, High and Highest. The default priority for a new playback is Normal. It is a very useful function, if you are running a playback with a fixture and then want to run a new playback at the same or higher priority. In this case, the new playback will take over the old one. If the new playback is of a lower priority, then the previously chosen playback will remain active.

## 7 CueList

CueList is a series of playbacks saved on a playback fader. When we move a CueList fader, then, all the playbacks in it will be activated. CueList provide conveniences for light shows.

### 7.1 Save a CueList

- 01) Press [CueList].
- 02) Flashing playback button means that there are no existing playbacks on it. Press the desired one to save the CueList.
- 03) The screen menu shows the total steps and the current step number.
- 04) Move up the faders of the playbacks you want to include. Press the current playback button to save.
- 05) Repeat step 4.
- 06) Press [Exit] to quit.

### 7.2 Edit a CueList

In order to edit an existing CueList:

- 01) Press [CueList].
- 02) Press the desired playback button.
- 03) Use <Up>/<Down> to select a step to edit.
- 04) Move up the faders corresponding with the playbacks which you want to include.
- 05) Press the current playback button to overwrite or insert.

- Delete Step: Select a step, press [Delete], then press [Enter] to confirm.
- Edit Step Time: Select a step, press [Time/Mode] to edit step time.
- View Step Data: Select a step, press [Copy/Include] to include the step data.

### 7.3 Run a CueList

Move up a playback slider or press a playback button to run a CueList.

- One playback runs only one CueList.
- The default time of CueList is 0 and Link is set to OFF, so you have to press [GO+] or [GO-] to run it manually.

### 7.4 Delete a CueList

Deleting a cue list is similar to deleting a chase:

- 01) Press [Delete].
- 02) Press the CueList button twice.

### 7.5 Copy a CueList

In order to copy a CueList:

- 01) Press [Copy/Include].
- 02) Press a CueList button with an existing cue list.
- 03) Press an empty chase button to copy.

### 7.6 Set Global Time

To set global time for a CueList:

- 01) Press [Time/Mode], then press the desired CueList button.
  - 02) Press <Up>/<Down> to browse, press <A>-<E> to select an option. Turn Wheel V to set the values.
  - 03) The Link option is on Page 2. If Link is set to On, the chases will automatically run step by step. If Link is set to Off, then you have to press [Go+] or [Go-] to run the steps.
  - 04) Once you have made all the necessary changes, press [Enter] twice to save and exit.
- For CueList, it is enough to set only the LTP time.

**7.7 Set Special Time for a Step**

Special fade in/out time can be allocated to each step. A chase step with special time is called a complicated step. If the step is using the global time, then it is a simple step.

- 01) Press [CueList], then press the desired CueList button.
- 02) Press <Up>/<Down> to select the desired step.
- 03) Press [Time/Mode].
- 04) Press <Up>/<Down> to browse, <A>-<E> to select an option. Turn the Wheel V to set the values.
- 05) The Link option is on Page 2. If Link is set to On, the chases will automatically run step by step. If Link is set to Off, then you have to press [Go+] or [Go-] to run the steps.
- 06) Press [Enter] twice to save.

- Any modification will automatically change the step to a complicated step.
- To convert a step to a simple step, change [Save as complex] to [Save as simple] in the Time Menu.

## 8 Show Record

By means of Show Record, you can record the order of the playbacks and the interval time between the playbacks. The show can be played back after recording. This function saves much time for lighting designers.

### 8.1 Record a Show

- 01) Press <Setup>.
  - 02) Press <E> [Show Record].
  - 03) Press <A> [Show List], then select the desired show to record.
  - 04) Press <B> [Record Show].
  - 05) Press <B> [Record] to highlight it.
  - 06) Playback chases and palettes.
  - 07) Once the playbacks are finished, press <B> [Record] to dehighlight it.
  - 08) Press <Enter> to end the show.
  - 09) Now, you can adjust the time settings. To set the first playback as the starting time, press <C>. In order to keep the original time settings, press <E>.
- The show's duration time will be shown after recording.
  - When recording, either the time code of the controller or the time code from an external MIDI can be used. You can toggle between these two by pressing the soft key <A> in Program Recording menu. While saving after recording, keep the original time.

### 8.2 Run a Show

- 01) Press <Setup>.
  - 02) Press <E> [Show Record].
  - 03) Press <A> [Show List], then, select the desired show to run.
  - 04) Press <D> [Play Show].
  - 05) Press <B> [Play] to highlight it, then the show will start running.
- Once the show is running, its first line timer will start. Option B will automatically be dehighlighted after the show finishes running.
  - Option D and E can be used for adjusting the rhythm of the show.
  - To playback, either the time code of the controller or the time code from external MIDI can be used. You can toggle between these two by pressing the soft key <A> in Program Recording menu.

### 8.3 Delete a Show

- 01) Press <Setup>.
  - 02) Press <E> [Show Record].
  - 03) Press <A> [Show List], then select the desired show to delete.
  - 04) Press <C> [Delete Show], then press <Enter> to delete.
- To delete all programs, enter Program Record, then select [Clear Show List] and press <Enter>.

**8.4 Save/Load a show**

You can save or load Show List.

- Save Show List

- 01) Press <Setup>.
- 02) Press <E> [Show Record], insert a U-Disk.
- 03) Press <C> [Save Show List].
- 04) Turn the Wheel V to modify the characters. Press <Up>/<Down> to move the cursor, press [Delete] to delete a character.
- 05) Press <Enter> to save.

- Load Show List

- 01) Press <Setup>.
- 02) Press <E> [Show Record], insert the U-Disk.
- 03) Press <D> [Load Show List].
- 04) Select the desired show list, then press <Enter> to start loading.

- Save a single show

- 01) Press <Setup>.
- 02) Press <E> [Show Record], insert a U-Disk.
- 03) Press <A> [Show List], then select the desired program to save.
- 04) Press <E> [Save&Load Show], then press <A> [Save Show].
- 05) Turn the Wheel V to modify the characters. Press <Up>/<Down> to move the cursor. Press [Delete] to delete a character.
- 06) Press <Enter> to save.

- Load a single program

- 01) Press <Setup>.
- 02) Press <E> [Show Record], insert the U-Disk.
- 03) Press <A> [Show List], then select the desired program to load.
- 04) Press <E> [Save&Load Show], then press <B> [Load Show].
- 05) Select the desired file.
- 06) Press <Enter> to load.

## 9 Setup

Press <Setup> to enter Setup menu. In the menu, you can implement data back-up, loading, data erasing, language selection, library management, user settings and version information.

### 9.1 U-Disk Management

In order to back up and read data.

- Save Data: Enter data saving menu. Turn the Wheel V to modify the characters. Press <Up>/<Down> to move the cursor. Press [Delete] to delete a character. Once finished, insert a U-Disk. Press [Enter] to save.
- Read data: Insert a U-disk. Select Read Data. All the data names on the U-Disk will appear on the screen. Press <Up>/<Down> to select a data. Press <A>-<E> to select the desired option to load the data.

### 9.2 Wipe

To erase all the data or only the playbacks in the console.

- Wipe Playback: Only the data in the playback area will be erased.
- Wipe Palette: Only the data in the palette area will be erased.
- Wipe All: Data of playback, palette and patch will all be erased.

### 9.3 Language selection

There are two available languages: Chinese and English.

### 9.4 Personality Management

- Delete Personality: A maximum of 32 libraries can be saved on the console. You have to delete an old library to save a new library if the total number of libraries has reached 32.

- 01) Enter Delete Library menu.
- 02) Press <Up>/<Down> to browse.
- 03) Press <A>-<E> to select
- 04) Press [Enter] to delete.

- Delete all Person.: All libraries will be deleted.
- Update Personality

- 01) Insert a correct USB flash drive. In the menu, press <D> to load libraries from the USB flash drive.
- 02) Select the personality which you want to add. Once updated, the line will be highlighted.

- Personalities can be created or edited directly with the console.

- 01) Press <Setup>.
- 02) Press <D> [Personality Manage].
- 03) Press <E> [Edit Personality].
- 04) In this menu, you can create new personalities or edit existing personalities.
- 05) Turn the Wheel B to modify the characters. Press <Up>/<Down> to move the cursor. Press [Delete] to delete a character. After naming, press [Enter] to enter Channels Number Menu.
- 06) In Channels Number Menu, turn the Wheel V to modify the channel number or press a fixture button to enter the channel number. Press <Enter> to enter Channel Edit Menu.
- 07) Select the desired channel to edit. Once selected, the option will be highlighted. Press <Attribute> to allocate an attribute to the channel. If the channel is not a fine-tone channel, then press the option button again. You will enter Advanced Channel Setting Menu.
- 08) In Advanced Channel Setting Menu, turn the Wheel V to modify the characters. Press <Up>/<Down> to move the cursor. Press [Delete] to delete a character. Option B can be used for changing the attribute type. Option C can be used for changing the channel type. Turn the Wheel V to change the locating value of the channel. Option D can be used for editing the reverse status of the channel. After editing, press <Exit> to return to the upper menu.

- 09) Repeat step 7 until you finish editing all the channels, then press <Enter> to enter Macro Menu.
- 10) In Macro Menu, select the desired macro command to edit. Turn the Wheel B or press a fixture button to enter a channel number. Turn the Wheel V to enter a function value. After editing the macro command, press <Enter> to save the created/edited personality.

### 9.5 Program Record

Refer to Chapter 8.

### 9.6 User Settings

For users' different preferences, the console offers different ways of selecting palettes.

Press <Setup>, select User Settings. The options below are now available:

- **Save Pal. not link A/Save Pal. Link Attr.:** When saving a palette, you can select to link with attribute or not. If you choose to link, only the data from the selected attributes will enter the programmer and be saved. If not to link, then all the data in the programmer will be saved.
- **Use Pal. not link At/Use Pal. link Attr.:** When loading a palette, you can select to link with attribute or not. If you choose to link, only the data from the selected attributes will be loaded. If not to link, then, all the data will be loaded.
- **MIDI = SLAVE/MASTER/DISABLE:** Sets the MIDI mode. In Slave mode it receives data. In Master mode it transmits data when you press a key or move a fader.
- **MIDI channel = xx:** Sets the MIDI transmit / receive channel. MIDI channels are numbered 1-16.
- **Palette Page = On/Off:** If switched off, the page 1 will remain active.
- **Wheel accele.:** Set the wheel acceleration.

### 9.7 Update of the IC on the Output PCB

To update the IC on the Output PCB:

- 01) Copy the updated file to a U-Disk. Insert the U-Disk into the console.
- 02) Select the related option to start updating.

### 9.8 System information

Press <Setup>, then browse by pressing <Up>/<Down>. You will see System Information. You can view the current software version.

## 10 Update

- 01) Power off the console.
- 02) Copy the updated file to a U-Disk and insert it into the USB port of the console.
- 03) Power on the console. It will now start searching for the firmware update. Once detected, the software will ask whether to update or not.
- 04) Press <Enter> to update. After updating, the device will reboot automatically.

## 11 Personality Builder

17A unpatch		18A unpatch		19A unpatch		20A unpatch	
17B unpatch		18B unpatch		19B unpatch		20B unpatch	

FUNCTION	EFFECT	MAGENTA		RED	BLUE		
9A unpatch	10A unpatch	11A unpatch	12A unpatch	13A unpatch	14A unpatch	15A unpatch	16A unpatch
CONTROL	CYAN	YELLOW		GREEN	WHITE		
9B unpatch	10B unpatch	11B unpatch	12B unpatch	13B unpatch	14B unpatch	15B unpatch	16B unpatch
PAN	DIMMER	FOCUS	IRIS	FUNCTION	COLOR 1	GOBO1	PRISM
1A unpatch	2A unpatch	3A unpatch	4A unpatch	5A unpatch	6A unpatch	7A unpatch	8A unpatch
TILT	SHUTTER	ZOOM		FUNCTION	COLOR 2	GOBO2	P/T SPEED
1B unpatch	2B unpatch	3B unpatch	4B unpatch	5B unpatch	6B unpatch	7B unpatch	8B unpatch

Fixture name



Attribute Setting

Attribute Name

Channel NO.

Fine Channel NO.

Fader

Invert

UNCATEGORISED

SHUTTER

FOCUS

ZOOM

IRIS

COLOR1

COLOR2

COBO1

COBO2

Go-ROTATE1

Go-ROTATE2

PRISM

P/T SPEED

FUNCTION

Macros

LAMP ON

LAMP OFF

RESET

- 01) Select your preferred language.
- 02) Press [New] to create a new personality or press [load] to load an existing personality.
- 03) Enter the name of the personality.
- 04) Select the tags with blue background.
- 05) Enter the channel value in Attribute Setting column.
- 06) Select the channel type in the scroll-down menu of Attribute Setting.
- 07) Change the attribute name, according to your preferences.
- 08) Enter the fine value in the fine channels, if any.
- 09) Enter the value for the Locate function.
- 10) Set up the slope and invert. (Normally, use the default settings.)
- 11) Repeat steps 4-10 to set up another attribute.
- 12) Save the personality.

## Maintenance

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The operator has to make sure that safety-related and machine-technical installations are to be inspected by an expert after every year in the course of an acceptance test.

The operator has to make sure that safety-related and machine-technical installations are to be inspected by a skilled person once a year.

The following points have to be considered during the inspection:

- 01) All screws used for installing the device or parts of the device have to be tightly connected and must not be corroded.
- 02) There may not be any deformations on housings, fixations and installation spots.
- 03) Mechanically moving parts like axles, eyes and others may not show any traces of wearing.
- 04) The electric power supply cables must not show any damages or material fatigue.

The Showtec Creator 2048 requires almost no maintenance. However, you should keep the unit clean.

Disconnect the mains power supply, and then wipe the cover with a damp cloth. Do not immerse in liquid. Do not use alcohol or solvents.

Keep connections clean. Disconnect electric power, and then wipe the DMX and audio connections with a damp cloth. Make sure connections are thoroughly dry before linking equipment or supplying electric power.

## Troubleshooting

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### No Light

This troubleshooting guide is meant to help solve simple problems.

If a problem occurs, carry out the steps below in sequence until a solution is found. Once the unit operates properly, do not carry out following steps.

If the Creator 2048 does not operate properly, refer servicing to a technician.

Suspect two potential problem areas: the power supply, the effects.

- 01) Power supply. Check that the unit is plugged into an appropriate power supply.
- 02) Return the Creator 2048 to your Showtec dealer.
- 03) An effect does not respond to the Creator 2048: Check the DMX-address of the fixture and the controller. Make sure that they match. Make sure the connections are correct. Check if blackout is off.
- 04) If all of the above appears to be O.K., plug the unit in again.
- 05) If nothing happens after 30 seconds, unplug the device.
- 06) If you are unable to determine the cause of the problem, do not open the Creator 1024, as this may damage the unit and the warranty will become void.
- 07) Return the device to your Showtec dealer.

### No Response to DMX

Suspect the DMX cable or connectors, a controller malfunction, a light effect DMX card malfunction.

- 01) Check the DMX setting. Make sure that DMX addresses are correct.
- 02) Check the DMX cable: Unplug the unit; change the DMX cable; then reconnect to electrical power. Try your DMX control again.
- 03) Determine whether the controller or light effect is at fault. Does the controller operate properly with other DMX products? If not, take the controller in for repair. If so, take the DMX cable and the light effect to a qualified technician.

## Product Specifications

DMX512 channel number	2048
Fixture	200
Channels for each fixture	40
Chases	150
Chase to run simultaneously	15
Chase step	600
Shapes for each scene	5
Shapes to run simultaneously	8
Re-patched Fixture address	Yes
Swap Pan/Tilt	Yes
Reversed channel output	Yes
Channel slope modification	Yes
Channels for each fixture	40 primary + 40 fine tune
Library	Avolite Pearl R20 library supported
Scene	150
Scenes to run simultaneously	15
Total Scene steps	600
Time control of Scenes	Fade in/out, LTP slope
Shapes for each Scene	5
Scene and dimmer by slider	Yes
Swap Scene	Yes
Flash Scene	Yes
Shape generator	Shapes of Dimmer, Pan/Tilt, RGB, CMY, Color, Gobo, Iris, Zoom and Focus
Shapes to run simultaneously	8
Master slider	Global
Real time blackout	Yes
Channel value by wheel	Yes
Channel value by slider	Yes
Dimmer by slider	Yes
USB Memory	FAT32 supported
Dust Cover + Flightcase	included
Case Dimensions	655 x 538 x 250 mm (LxWxH)
Case Weight	10,06 kg
Dimensions	595 x 460 x 128 mm (LxWxH)
Weight	10,64 kg

Design and product specifications are subject to change without prior notice.



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