



# Mosaico JR

70W IP66 zoomable LED image projector  
with gobo and color wheel



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## USER MANUAL

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Any other use, if not expressly indicated, could compromise the good condition/operation of the product and/or be a source of danger.

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Scanning the below **QR Code**, you will access the download area of the product page, where you can find a broad set of always updated technical documentation: specifications, user manual, technical drawings, photometrics, personalities, fixture firmware updates.



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# SAFETY INFORMATION



## WARNING!

- Please read carefully the instruction reported in this section before installing, powering, operating or servicing the product and observe the indications also for its future handling.



**This unit is not for household and residential use, only professional applications.**



## Connection to mains supply

- The Connection to the mains supply must be carried out by a qualified electrical installer.
- Use only AC supplies 100-240V 50-60 Hz, the fixture must be electrically connected to ground (earth).
- Select the cable cross section in according with the maximum current draw of the product and the possible number of products connected at the same power line.
- The AC mains power distribution circuit must be equipped with magnetic+residual current circuit breaker protection.
- Do not connect it to a dimmer system; doing so may damage the product.



## Protection and Warning against electrical shock

- Do not remove any cover from the product, always disconnect the product from AC power before servicing.
- Ensure that the fixture is electrically connected to ground (earth). And use only a source of AC power that complies with local building and electrical codes and has both overload and ground-fault (earth-fault) protection.
- Before using the fixture, check that all power distribution equipment and cables are in perfect condition and rated for the current requirements of all connected devices.
- Isolate the fixture from power immediately if the power plug or any seal, cover, cable, or other components are damaged, defective, deformed or showing signs of overheating.
- Do not reapply power until repairs have been completed.
- Refer any service operation not described in this manual to PROLIGHTS Service team or an authorized PROLIGHTS service center.



## Installation

- Make sure that all visible parts of the product are in good visible condition before its use or installation.
- Make sure the point of anchorage is stable before positioning the projector.
- When suspending the fixture above ground level, secure it against failure of primary attachments by attaching a safety cable that is approved as a safety attachment for the weight of the fixture to the attachment point on the main frame of the product. In case the safety cable, enter in action, it needs to be replaced with a new one.
- Install the product only in well ventilated places.
- For non temporary installations, ensure that the fixture is securely fastened to a load-bearing surface with suitable corrosionresistant hardware.
- For a temporary installation with clamps, ensure that the quarter-turn fastener and/or screws are turned fully, and secured with a suitable safety cable.



## Minimum distance of illuminated objects

- The projector needs to be positioned so that the objects hit by the beam of light are at least 3 meters (9.84 ft) from the lens of the projector.

**T<sub>a</sub> 45 °C**

### **Max operating ambient temperature (Ta)**

- Do not operate the fixture if the ambient temperature (Ta) exceeds 45 °C (113 °F).

**T<sub>a</sub> -20 °C**

### **Minimum operating ambient temperature (Ta)**

- Do not operate the fixture if the ambient temperature (Ta) is below -20 °C (-4 °F).



### **Protection from burns and fire**

- The exterior of the fixture becomes hot during use. Avoid contact by persons and materials.
- Ensure that there is free and unobstructed airflow around the fixture.
- Keep flammable materials well away from the fixture.
- Do not expose the front glass to sunlight or any other strong light source from any angle. Lenses can focus the sun's rays inside the fixture, creating a potential fire hazard.
- Do not attempt to bypass thermostatic switches or fuses.

**IP66**

### **Outdoor (temporary) use**

- This product is rated with an IP (Ingress protection) for temporary outdoor use when used and serviced according to the instruction contained in this document.
- Never use the fixture in places subject to vibrations or bumps.
- Make certain that no inflammable liquids, water or metal objects enter the fixture.
- Excessive dust, smoke fluid, and particle build up degrades performance, causes overheating and will damage the fixture.
- Damages caused by inadequate cleaning or maintenance are not covered by the product warranty.

**T<sub>c</sub> 70 °C**

### **Temperature of the external surface**

- The surface of the fixture can reach up to 70 °C (158 °F) during operation. Avoid contact with people and materials.



### **Maintenance**

- Warning! Disconnect the fixture from AC mains power and allow to cool for at least 10 minutes before handling.
- Only technicians who are authorized by PROLIGHTS or Authorised service partners are permitted to open the fixture.
- Users may carry out external cleaning, following the warnings and instructions provided, but any service operation not described in this manual must be referred to a qualified service technician.
- Important! Excessive dust, smoke fluid, and particle build up degrades performance, causes overheating and will damage the fixture. Damages caused by inadequate cleaning or maintenance is not covered by the product warranty.



### **Radio receiver\***

- This product contains a radio receiver and/or transmitter:
- Maximum output power: 17 dBm.
- Frequency band: 2.4 GHz.



### **Photobiological safety**

- This device emits potentially dangerous optical radiation and is identified in the category of Risk Group 1 according to EN 62471.



### **Do not stare at the operating light source**

- Do not look directly at the LED source during operation. It can be harmful to the eyes and skin.
- During Installation, operation and maintenance, be prepared for the fixture to light and move suddenly when connected to power.



#### **Disposal**

- This product is supplied in compliance with European Directive 2012/19/EU – Waste Electrical and Electronic Equipment
- (WEEE). To preserve the environment please dispose/ recycle this product at the end of its life according to the local regulation.



#### **The product contains a lithium ion battery**

- Don't throw the unit into the garbage at the end of its lifetime.
- Make sure to dispose according to your local ordinances and/or regulations, to avoid polluting the environment!
- The packaging is recyclable and can be disposed.



#### **The products to which this manual refers comply with:**

- 2014/35/EU - Safety of electrical equipment supplied at low voltage (LVD).
- 2014/30/EU - Electromagnetic Compatibility (EMC).
- 2011/65/EU - Restriction of the use of certain hazardous substances (RoHS).
- 2014/53/EU - Radio Equipment Directive (RED).



#### **The products to which this manual refers comply with:**

- UL 1573 + CSA C22.2 No. 166 - Stage and Studio Luminaires and Connector Strips.
- UL 1012 + CSA C22.2 No. 107.1 - Standard for power units other than class 2.



#### **FCC Compliance:**

- This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
  1. This device may not cause harmful interference, and
  2. This device must accept any interference received, including interference that may cause undesired operation.



#### **Other approvals**

- The product meets the safety requirements of the certification procedures of the market in which it is placed and sold.

# 1 - PACKAGING

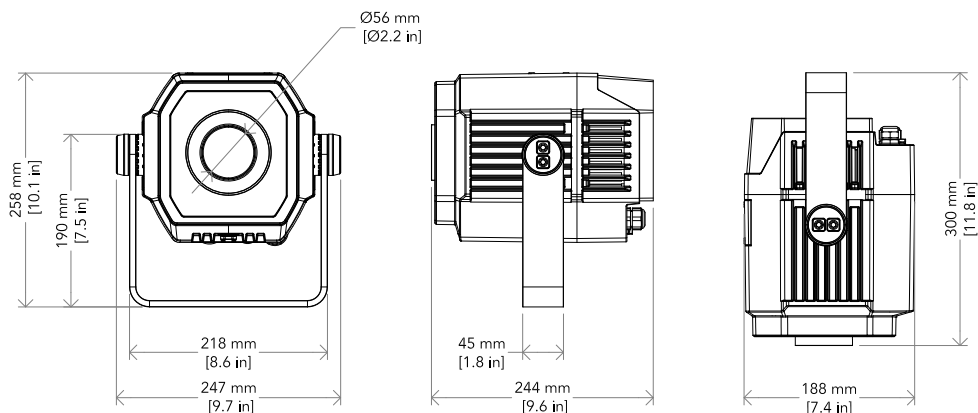
## PACKAGE CONTENT

- 1 x MOSAICOJR;
- 1 x BARE END - IP connection adapter;
- 1 x 5p XLR - IP connection male adapter;
- 1 x 5p XLR - IP connection female adapter;
- User Manual.

## OPTIONAL ACCESSORIES

- FCLMOSAICOJR: Flightcase for 8 pcs of MOSAICOJR;
- RSR0630B: Steel security cable for hanging bodies, inox steel shackle, L=60 cm, black;
- C6002B: Slim aluminum clamp, 200kg loading, 48-51mm tubes, M10 bolt, Black;
- LRLUNA: Single Universe DMX transceiver with Bluetooth;
- GBVMAP00112G00: Gobo Mapping, G size, black and white;
- MOSUNIBRACKJR: Bracket for MOSAICOJR for wall mounting and suspension on poles;
- AWEXDC1221ADP: Signal adapter kit from AWEXDC1 series to AWEXDC2 series and vice versa;
- AWEXAC12ADP: Power adapter from AWEXAC1 cable series to AWEXAC2 cable series;
- AWEXAC1L03: IP67 power extension cable for outdoor architectural projectors, L.03 m;
- AWEXAC1L05: IP67 power extension cable for outdoor architectural projectors, L.05 m;
- AWEXAC1L10: IP67 power extension cable for outdoor architectural projectors, L.10 m;
- AWEXAC1L20: IP67 power extension cable for outdoor architectural projectors, L.20m;
- AWEXDC1L03: IP67 DMX extension cable for outdoor architectural projectors, L.03 m;
- AWEXDC1L05: IP67 DMX extension cable for outdoor architectural projectors, L.05 m;
- AWEXDC1L10: IP67 DMX extension cable for outdoor architectural projectors, L.10 m;
- AWEXDC1L20: IP67 DMX extension cable for outdoor architectural projectors, L.20 m;
- UPBOX1UP5: Firmware uploader kit, USB IN, 5pin XLR DMX OUT, USB OUT;
- UPBOXPRO: Firmware uploader kit, USB IN, 5-pin XLR DMX OUT connector.

## 2 - TECHNICAL DRAWING



Weight: 10 kg - 22.04 lbs

Fig. 01

## 3 - INSTALLATION

### MOUNTING

Check that the supporting structure can safely bear the weight of all installed fixtures, clamps, cables, auxiliary equipment, etc. and complies with locally applicable regulations.

When suspending the fixture above ground level, secure it against failure of primary attachments by attaching a safety wire that is approved as a safety attachment for the weight of the fixture to an anchor point on the product main frame.

Do not use removable parts or weak anchors for secondary attachment.

Warning! When clamping the fixture to a truss or other structure at any angle, use clamps of half-coupler type. Do not use any type of clamp that does not completely encircle the structure when fastened.

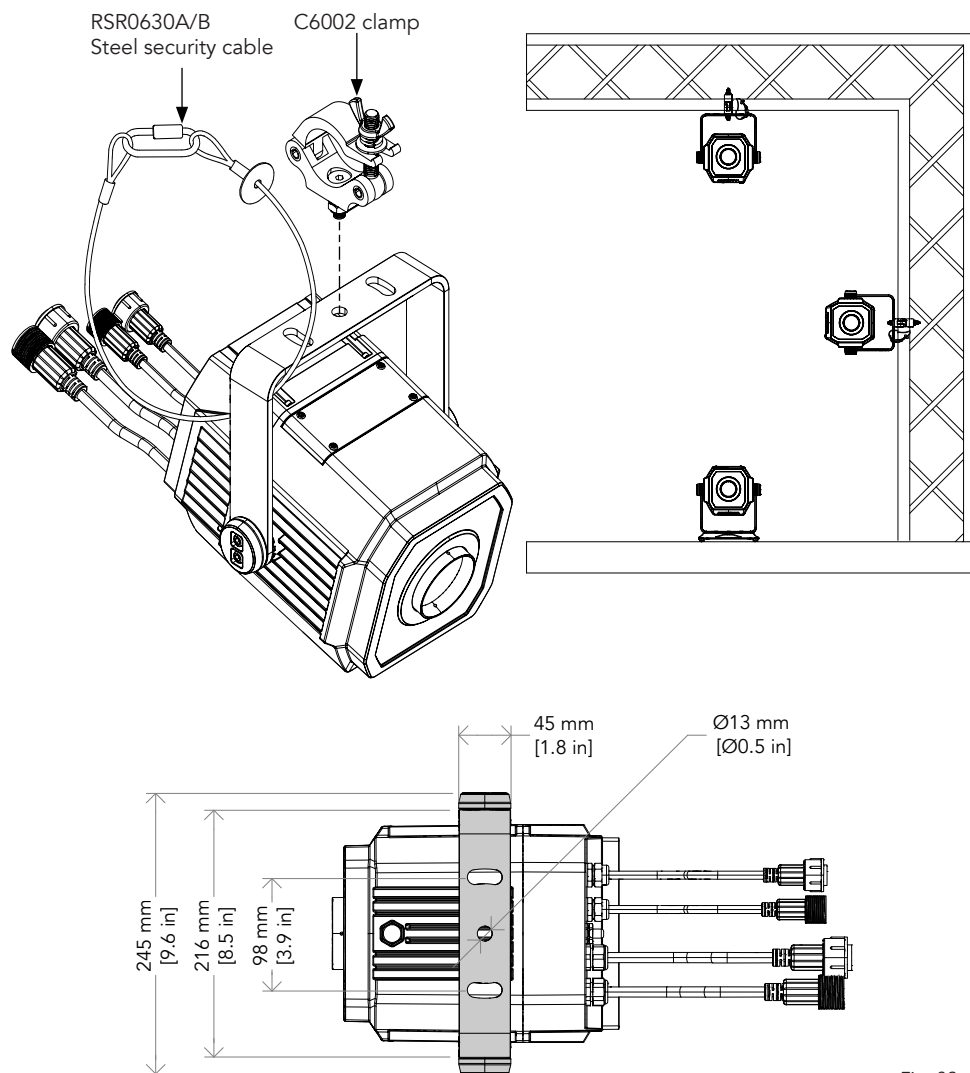



Fig. 02

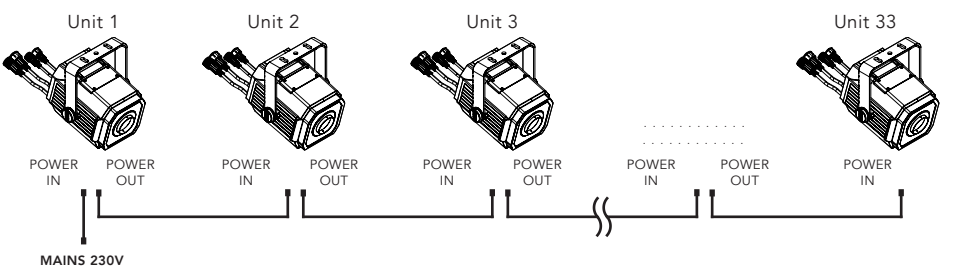


# 4 - CONNECTION TO THE MAINS SUPPLY

**WARNING:** For protection from electric shock, the fixture must be earthed!  
The product is equipped with auto-switching power supply that automatically adjusts to any 50-60Hz AC power source from 100-240 Volts.  
If you need to install a power plug on the power cable to allow connection to power outlets, install a grounding-type (earthed) plug, following the plug manufacturer's instructions. If you have any doubts about proper installation, consult a qualified electrician.  
The max power consumption is 90W.  
You can link up to 33 units at 230 V. Never exceed this number. Power linking cords can be purchased separately.



Core (EU)	Core (US)	Connection	Plug terminal marking
Brown	Black	Live	L
Blue	White	Neutral	N
Yellow+green	Green	Earth	



**NOTE:** when not using the Power output connectors, you must seal the cable ends with the supplied caps.

Fig. 04 - Example configuration (Output at 230 V)

# 5 - START UP

## CONNECT AND DISCONNECT POWER FROM THE PRODUCT

- To apply and disconnect power to the product:
- Check that the product is installed and secured as indicated in the Safety Informations, and that personal safety will not be put at risk when the fixture lights up.
  - Connect the power connector into the Mains input socket (100-240 VAC-50/60 Hz).
  - The product is then ready for its operations and can be controlled through the available input signals on board.
  - To disconnect power from the product, disconnect the Mains from the socket.

## 6 - PRODUCT OVERVIEW

1. BRACKET;
2. USER INTERFACE with display and buttons for access to the control panel functions;
3. DMX IN (3-p XLR): 1 = GND, 2 = sign-, 3 = sign+;
4. DMX OUT (3-p XLR): 1 = GND, 2 = sign-, 3 = sign+;
5. GORE VALVE;
6. POWER IN: for connection to the Mains 100-240V~/50-60Hz;
7. POWER OUT: for connection to the Mains 100-240V~/50-60Hz.

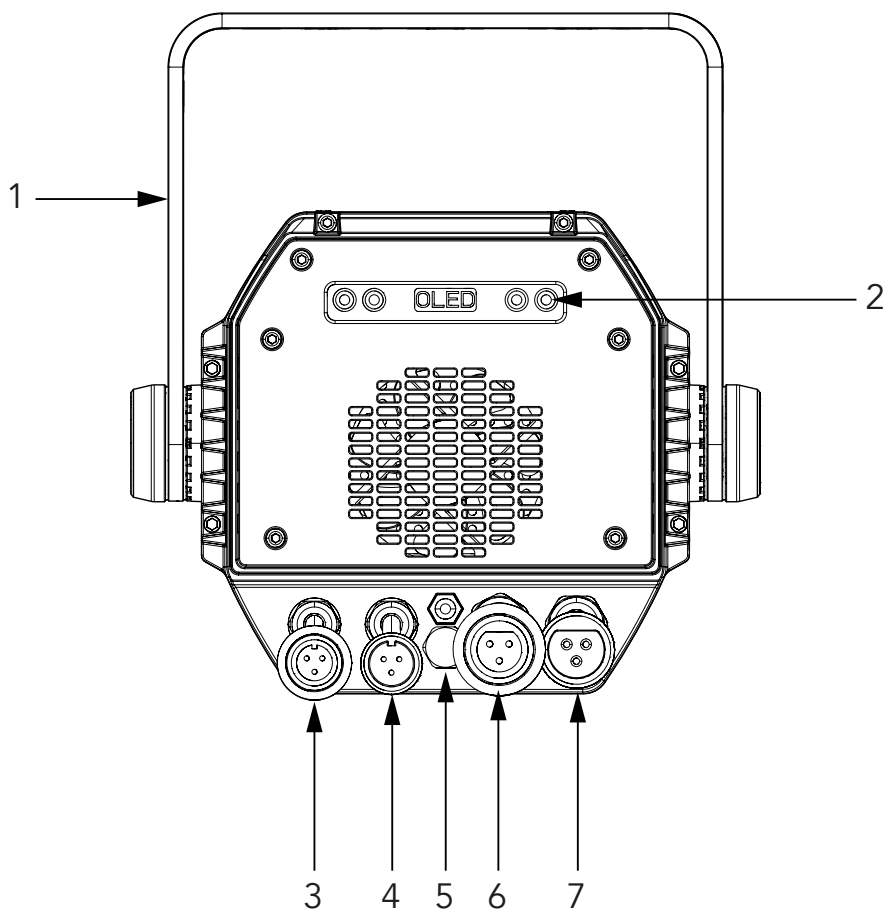


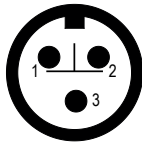
Fig. 05

# 7 - DMX CONNECTION

## CONNECTION OF THE CONTROL SIGNAL: DMX LINE

The product has connectors for DMX input and output.  
The default pin-out on both connectors is as the following diagram:

DMX - INPUT  
IP67 CONNECTOR



Pin1 : GND - Shield  
Pin2 : - Signal  
Pin3 : + Signal

DMX - OUTPUT  
IP67 CONNECTOR

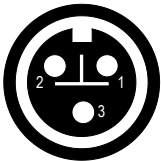


Fig. 06

## INSTRUCTIONS FOR A RELIABLE DMX CONNECTION

Use shielded twisted-pair cable designed for RS-485 devices: standard microphone cable cannot transmit control data reliably over long runs. 24 AWG cable is suitable for runs up to 300 meters (1000 ft). Heavier gauge cable and/or an amplifier is recommended for longer runs.  
To split the data link into branches, use splitter-amplifiers in the connection line.  
Do not overload the link. **Up to 32 devices may be connected on a serial link.**

**NOTE:** To connect the unit to your DMX network, it is necessary to use the adapters XLR 5 pin-IP67 signal connector, supplied with this product.

## CONNECTION DAISY CHAIN OF THE DMX LINE

Connect the DMX data output from the DMX source to the product DMX input (male connector).  
Run the data link from the product DMX output (female connector) connector to the DMX input of the next fixture.  
Terminate the data link by connecting a 120 Ohm signal termination.  
The termination is prepared by 120Ω 1/4 W resistor between pins 2 and 3 of the male DMX connector.  
Install a DMX termination plug on the last fixture on the link. If a splitter is used, terminate each branch of the link.

**NOTE:** when not using the DMX input or DMX output connectors, you must seal the cable ends with the supplied caps.

The following diagram shows the DMX connection:

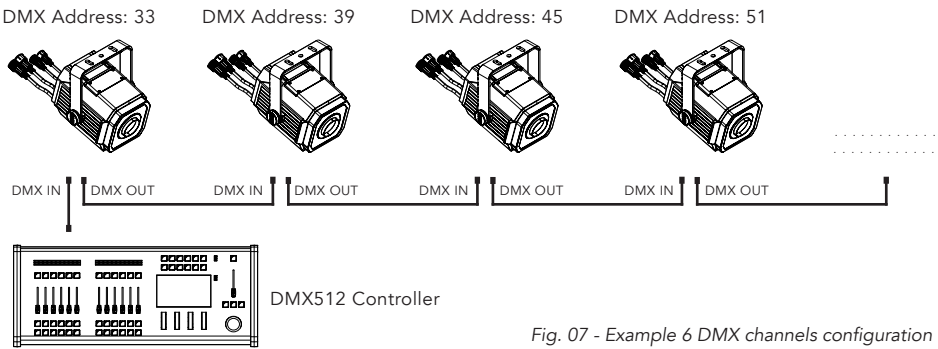


Fig. 07 - Example 6 DMX channels configuration

## CONNECTION OF THE CONTROL SIGNAL: DMX LINE ADAPTERS

The product has XLR sockets adapters for DMX input and output.  
The default pin-out on both socket is as the following diagram:

### DMX - INPUT XLR plug



Pin1 : GND - Shield  
Pin2 : - Signal  
Pin3 : + Signal  
Pin4 : N/C  
Pin5 : N/C

### DMX - OUTPUT XLR socket



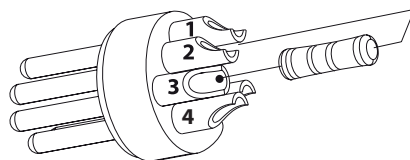
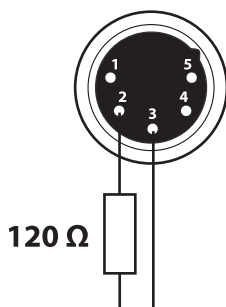
Fig. 08

## CONNECTION OF THE DMX LINE

DMX connection employs standard XLR connectors. Use shielded pair-twisted cables with 120 $\Omega$  impedance and low capacity.

## CONSTRUCTION OF THE DMX TERMINATION

The termination is prepared by soldering a 120 $\Omega$  1/4 W resistor between pins 2 and 3 of the male XLR connector, as shown in figure:



Example:  
5 pin XLR connector

Fig. 09

## DMX ADDRESSING

In order to start controlling the product via DMX, the first step is to select a DMX address, also known as the start channel, this is the first channel used to receive instructions from a DMX controller. If you wish to control the product individually, it is necessary to assign a different starting address channel to each fixture.

The number of channels occupied from the product depends on the DMX mode selected, so always verify the DMX Mode in the MENU before start addressing.

If you assign two fixtures the same address, they will be executing the same behaviour. Selecting the same address to multiple fixtures can be useful for diagnostic purposes and symmetrical control.

DMX addressing is limited to make it impossible to set the DMX address so high that you are left without enough control channels for the product.

To set the fixture's DMX address:

1. Press ENTER to open the main menu.
2. Reach the addressing menu, then select the DMX ADDRESS settings.
3. Select the address from 1 to 512 using the navigation arrows/buttons and confirm by pressing ENTER.
4. Press Menu to exit and return to the Home screen.

## OPERATION AS A WIRELESS TRANSMITTER

MOSAICOL can be used as wireless transmitter to transmit DMX signal to different wireless receivers. To use MOSAICOL as wireless transmitter, please follow the procedure below:

1. Push ENTER button until you show CONNECT on display, then press ENTER button to confirm.
2. Use UP/DOWN buttons for select WIRELESS, then press ENTER to confirm.
3. Push ENTER button on WDMX ON/OFF function and enable it to ON.
4. Select WDMX mode and set it on Transmitter (please note that WDMX mode will be available only if WDMX ON/OFF is set to ON).
5. Ensure that the receiver units are not connected to any other transmitter. Please refer to "Reset the receiver" paragraph.
6. Enable TX LINK to ON to link transmitter to receivers (please note that TX LINK will be available only if WDMX mode is set to Transmitter).
  - The transmitter scans for all unlinked receivers for a period of about 5 seconds.
  - If the connection fails, check the position of the receiver.
  - The wireless icon on the receiver display indicates the received signal strength.

## Unlinking the transmitter

Follow the procedure below to unlink the transmitter from all receivers connected with the unit.

1. Push ENTER button until you show CONNECT on display, then press ENTER button to confirm.
2. Use UP/DOWN buttons for select Wireless, then press ENTER to confirm.
3. Enable TX UNLINK to ON 8 (please note that TX UNLINK will be available only if WDMX mode is set to Transmitter).
  - All connected receivers will be unlinked.

## IN TO WDMX

This function enable or disable the transmission through wireless of the DMX signal from the transmitter side to the receiver.

Any DMX incoming signal is retransmitted through wireless.

## OPERATION AS A WIRELESS RECEIVER

MOSAICOL can be used as wireless receiver connected to a wireless transmitter.

To use MOSAICOL as wireless receiver, please follow the procedure below:

1. Push ENTER button until you show CONNECT on display, then press ENTER button to confirm.
2. Use UP/DOWN buttons for select Wireless, then press ENTER to confirm.
3. Push ENTER button on WDMX ON/OFF function and enable it to ON.
4. Select WDMX mode and set it on Receiver (please note that WDMX mode will be available only if WDMX ON/OFF is set to ON).
5. Enable RX RESET to ON to reset the receiver (please note that RX RESET will be available only if WDMX mode is set to Receiver).
6. On the transmitter, enable TX LINK to ON to link transmitter to the receivers.
7. If the connection is successful and DMX input is available the display on the receiver unit will show the DMX address. If DMX signal is not available, the display will show "No signal" but keeps the transmitter linked.
8. If the connection fails, check the position of the receiver.
9. The wireless icon on the receiver display indicates the received signal strength.

## Reset the receiver

Follow the procedure below to reset the receiver.

1. Push MENU button until you show CONNECT on display, then press ENTER button to confirm.
2. Use UP/DOWN buttons for select Wireless, then press ENTER to confirm.

3. Enable RX RESET to ON.

- The wireless icon on the receiver display indicates the received signal strength.

### WDMX TO DMX (RX)

This function enable or disable the retransmission of the wireless DMX signal received through the DMX port on the receiver side.

## 8 - CONTROL PANEL

The product has a display and buttons for access to the control panel functions.

NOTE: remove the display cover to access the control panel

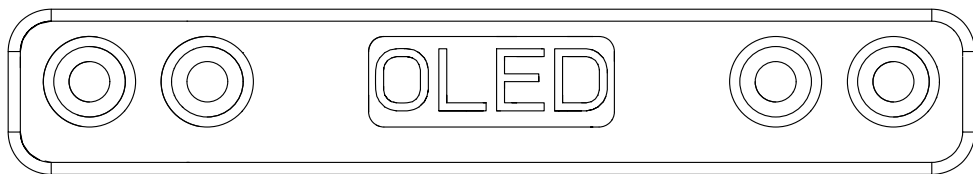


Fig. 10

### DISPLAY AND BUTTONS LAYOUT

- MENU: used to access the menu tree or to return a previous menu window;
- UP: browse upwards through the menu list and increases the numeric value displayed;
- DOWN: browse downwards through the menu list and decreases the numeric value displayed;
- ENTER: used to confirm the current menu or confirm the current function value or option within a menu.

## 9 - MENU STRUCTURE

The following chart describes the MENU tree of the product, the terms shown in **BOLD** indicates the default settings.

MENU					
1	CONNECT	ADDRESS	001-512		
		DMX Mode	8CH		
			11CH		
			14CH		
		Wireless	On/Off	On	
				<b>Off</b>	
			Reset	<b>No</b>	
				Yes	
			WDMX To DMX	No	
				<b>Yes</b>	
2	SETUP	SCREEN	BACKLIGHT	ON	Allows you to select the timing after that display will switch automatically off when unactive.
				10 s	
				20 s	
				30 s	
			FLIP DISPLAY	ON	Allows you to rotate the display by 180°.
				OFF	
				<b>AUTO</b>	
			Warn Cue	Off	
				<b>On</b>	
			KEY LOCK	<b>No</b>	Allows you lock the buttons on the control panel by a password. Press following combinations (password) in order to access to the user menu : UP, DOWN, UP, DOWN.
				Yes	
		Fixture	Fan Mode	Auto	
				High	
				<b>Silent</b>	
		Temp.unit		°C	
				°F	
		Auto Test	Auto Test ...		
		Manual Test	Shutter	000-255	
			Dimmer	000-255	
			Color	000-255	
			Gobo	000-255	
			RGobo	000-255	
			Focus	000-255	
			Zoom	000-255	
3	ADVANCED	Adv. Gobo Index	On		
			Off		
		Adv. Focus Index	On		
			<b>Off</b>		
		Adv. Zoom Index	On		
			<b>Off</b>		
		Reset	All		To reset these functions.
			Color		
			Gobo		
			Focus		
			Zoom		
		Adjust	Color Offset	000-255	
			Gobo Offset	000-255	
			RGobo Offset	000-255	
			Focus Offset	000-255	
			Zoom Offset	000-255	

4	INFORMATION	Factory Reload	No			
			Yes			
		Fixture Time	0-9999			
		Temperature	58 °C			
		Fans Speed	**%			
		Software Version	"DISP: V1.0 CTR:V1.0"			
5	STANDALONE	UID	15D00231****			
		PLAY	OFF			
			SHOW	Show 1 Show 2 Show 3		
			CHASE	Chase 1 ... Chase 8		
			SCENE	Scene 1 ... Scene 32		
		EDIT SHOW	SHOW 1 SHOW 2 SHOW 3	CHASE 1 ... CHASE 8	ON OFF	
		EDIT CHASE	CHASE 1 ... CHASE 8	STEP 1 ... STEP 16	OFF SCENE 1 ... SCENE 32	
		EDIT SCENES	SCENE 01 ... SCENE 32	NEW / EDIT	Default: Dimmer: 255 Shutter: 255 Focus: 128 Zoom: 128 Fr.shutter 1 Move:128 Fr.shutter 1 Swiv:128 Fr.shutter 2 Move:128 Fr.shutter 2 Swiv:128 Fr.shutter 3 Move:128 Fr.shutter 3 Swiv:128 Fr.shutter 4 Move:128 Fr.shutter 4 Swiv:128 All others at 0	
				COPY	OFF SCENE 1 ... SCENE 32	
		SCENES RECORD	SCENE 01 ... SCENE 32	DMX - SCENES RECORD ONLY FOR SCENE RECORD MODE		
		SLAVE SETUP	EDIT SCENE 01 ... EDIT SCENE 32			
		SCENES TIME	SCENE 01 TIME ... SCENE 32 TIME	FADE IN TIME	0.000 - 3600.0	
				HOLD TIME	0.000 - 3600.0	
				FADE OUT TIME	0.000 - 3600.0	
		CHASE TIME	CHASE 1 ... CHASE 8	0.000 - 3600.0		
		MOVE WITH BLACKOUT	SCENE 01 ... SCENE 32	OFF ON		



## WIRELESS

- To enter the Wireless mode proceed in the following mode:
- Press the MENU button to access the main menu.
- Press the UP/DOWN button to scroll the menu, select **Connect**, then press the ENTER button to enter the next menu.
- Select the **Wireless Receive** function using the UP/DOWN buttons, then press the ENTER button.
- To activate the **Wireless Receive** function, use the UP/DOWN buttons and select the **On** option.
- Press the ENTER button to confirm the selection.
- Press the MENU button to go back or wait a few seconds to exit the setup menu.

NOTE - Once you have performed these steps, you must synchronize with any WiFi unit with which you want to communicate by pressing the sync button on it. At this point connect the DMX console to the WiFi unit to open the communication with the MOSAICOXL.

- To reset the unit, select the **Receive Reset** function using the UP/DOWN buttons, press the RIGHT button until the display shows **Connect**, then select **Receive Reset** using the UP/DOWN buttons, then press the ENTER button.
- To activate the mode use the UP / DOWN keys and select the **Yes** option.
- Press the ENTER button to confirm the selection.
- Press the MENU button to go back or wait a few seconds to exit the setup menu.
- To activate the **Wireless to DMX** function, use the UP / DOWN buttons to press the ENTER button until the display shows **Connect**, then select **Wireless to DMX**, then press the RIGHT button.
- To activate the mode use the UP/DOWN buttons and select the **Yes** option.
- Press the ENTER button to confirm the selection.
- Press the MENU button to go back or wait a few seconds to exit the setup menu.

## SCREEN

It is possible to modify the following parameters, related to the display, following the same procedure:

- Press the MENU button to access the main menu.
- Press the UP/DOWN button to scroll through the menu, select **Set Up**, then press the ENTER button access the next menu.
- Press the UP/DOWN button to select **Screen** and press the ENTER button to proceed.
- Select the proposed option with the UP/DOWN button and press the ENTER button to confirm.
  - **Backlight** - Auto Off display backlight. This function allows you to switch off automatically the backlighting of the display after a certain time which can be set using the directional keys. To have the display always on select **On** or set a value between those shown (10s, 20s, 30s) to turn off the display once the chosen time has elapsed, after exiting the menu.
  - **Flip Display** - Display orientation. This feature allows you to rotate the display by 180 ° to get a better view of the display when the unit is hanging upside down. Select **Yes** to activate the function, **No** to deactivate it or **Auto**.
  - **Warn Cue** - Warning of error. Use the arrow keys to select **Off** or **On** depending on whether or not the display shows error warnings.
  - **Key lock** - With this function, you can lock the keys on the control panel to prevent, for example, tampering with the settings. If this function is activated, the keys are locked automatically. To disable or temporarily disable or disable the key lock function, press the keys in the following order to regain access to the menu commands: UP, DOWN, UP, DOWN, ENTER. Select **Yes** to activate the function or **No** to deactivate it.
- Press the ENTER button to confirm the selection.
- Press the MENU button repeatedly to exit the menu and to save the changes made.

## FIXTURE SETTINGS

You can change the parameters for the device by following these steps:

- Press the button MENU to enter the menu mode.
- Use the buttons UP/DOWN to select Set Up. Press the button ENTER to confirm.
- Use the buttons UP/DOWN to select Fixture. Press the button ENTER to confirm.
- Press the buttons UP/DOWN to select the desired option and press the button ENTER to confirm:

- Fan Mode - Fan speed. Select the desired fan speed Auto, Silent, High through the button UP/DOWN.
- Temperature unit. Select Temperature unit function and then choose Celsius / Fahrenheit measurement unit then press the ENTER button to confirm the selection.
- Press the MENU button repeatedly to exit the menu and to save the changes made.

## AUTO TEST

Allow checking the proper functioning of the unit. Start the automatic test in the following way:

- Press the button MENU to enter the menu mode.
- Use the buttons UP/DOWN to select the Set Up. Press the button ENTER to confirm.
- Press the buttons UP/DOWN to select the Auto Test and press ENTER to confirm.
- To confirm and start the automatic test press the MENU button.

## MANUAL TEST

It allows to do adjustments on the effects through comands pannel to obtain a perfect balance between the projectors.

- Press the button MENU to enter the menu mode.
- Press the buttons UP/DOWN to select the item Set Up. Then press the button ENTER.
- Press the buttons UP/DOWN to select the Manual Test. Then press the button ENTER.
- Select the effect you want change (**Shutter, Dimmer, Color, Gobo, RGobo, Focus, Zoom**). Then press the button ENTER to confirm.
- Use the directional buttons to calibrate the effect setting a value between 0 - 255. Then press the button ENTER to confirm.
- Press repeatedly the button MENU to return the menu mode.

## ADVANCED

It is possible to modify the following parameters following the same procedure:

- Press the MENU button to access the main menu.
- Press the UP/DOWN button to scroll through the menu, select **Advanced**, then press the ENTER button to enter the next menu.
- Press the UP/DOWN button to select one off the following parametres:
  - Advance Gobo Index: Reduces indexing errors when rotating in different directions of the gob.
  - Advance Focus Index: Reduces indexing errors when moving focus forwards and backwards. This function is disabled by default.
  - Advance Zoom Index: Reduces indexing errors when zooming in/out. This function is deactivated by default.
  - Warm Up Low Temperature: The Warm Up function works as follows:
    - OFF = at power-up the device never warms up;
    - ON = when switched on, the device will always warm up (regardless of the temperature);
    - LOW TEMP VALUE = when switched on, the device will warm up for 10 minutes if it is below a certain temperature threshold. The threshold is user selectable in a range of extremes 0° - 25° (default is set at 20°). During Warm Up the light source is on but the blades are closed, so no light escapes. Once the warm-up is complete, the device restarts and is ready for use.
  - Reset - To start a preset program to restore the selected function (All, Cyan, Magenta, Yellow, CTO, Color, Gobo, RGobo, Focus, Zoom).
  - Adjust - To allows you to change all parameters. Insert the password "050" to enter. Select the desired function (Cyan, Magenta, Yellow, CTO, Color, Gobo, RGobo, Focus, Zoom, and the choose the value (0 - 255).
  - Factory Reload - To reset the unit. Select Yes or No and select ENTER to confirm.
- Press the ENTER button to confirm the selection and wait for the selected function to be restored.
- Press the MENU button repeatedly to exit the menu and to save the changes made.

## INFORMATION ON THE DEVICE

To view all the information on the device, proceed as follows:

- Press the MENU button to access the main menu. Press the UP/DOWN button to select **Information**, then press the ENTER button to access the next menu.
- Press the UP/DOWN button to scroll through the menu, then select one of the following information and press the ENTER button to display it:- Fixture Time - Through the Fixture Time function, the operating time of the projector can be shown on the display.
  - Fixture Time - To view the operating time of the projector.
  - Temperature - To view the temperature of the device in °C/°F on the display.
  - Fans Speed - to view on the display the fan speed present near the lamp.
  - Software Version - To view the firmware version will show on the display.
  - UID - To view the identification ID for the RDM control.
- Press the MENU button repeatedly to exit the menu and to save the changes made.

## OPERATIONS IN STANDALONE MODE

### Play Show

The unit independently runs through its show. Before you send an automatic program you need to set the drive as Master/Alone:

- Press the MENU button to access the main menu.
- Press the UP/DOWN button to scroll the menu, select the **Stand Alone**, then press the ENTER button to enter the next menu.
- Press the UP/DOWN button to scroll through the menu, select **Play** and press the ENTER button to enter the next menu.
- Press the UP/DOWN button to scroll through the menu, select **Show** and press ENTER to confirm your choice.
- Press the UP/DOWN button to select the mode of operation: **Show 1, Show 2, Show 3.**
- Press the ENTER button to confirm your choice.
- Press the MENU button repeatedly to exit the menu and save changes.

The unit will go into automatic mode by executing the program automatically.

### Play Chase

The function **Chase** lets you choose the automatic program to actually run.

- Press the MENU button to access the main menu.
- Press the UP/DOWN button to scroll the menu, select **Stand Alone**, then press the ENTER button to enter the next menu.
- Press the UP/DOWN button to scroll through the menu, select **Play** and press the ENTER button to enter the next menu.
- Press the UP/DOWN button to scroll through the menu, select **Chase** and press the ENTER button to enter the next menu.
- Press the UP/DOWN button to scroll through the menu, then select **Chase 1 ~ Chase 8** and press ENTER to confirm.
- Press the MENU button repeatedly to exit the menu and save changes.

### Play Scenes

The function **Scenes** lets you choose the scene to actually run.

- Press the MENU button to access the main menu.
- Press the UP/DOWN button to scroll the menu, select **Stand Alone**, then press the ENTER button to enter the next menu.
- Press the UP/DOWN button to scroll through the menu, select **Play** and press the ENTER button to enter the next menu.
- Press the UP/DOWN button to scroll through the menu, select **Scenes** and press the ENTER button to enter the next menu.
- Press the UP/DOWN button to scroll through the menu, then select **Scene 1 ~ Scene 32** and press ENTER to confirm.
- Press the MENU button repeatedly to exit the menu and save changes.

## Edit Show

The function **Edit Show** allows you to create individual scenes to be included in the Chase Step.

- Press the MENU button to access the main menu.
- Press the UP/DOWN button to scroll the menu, select **Stand Alone**, then press the ENTER button to enter the next menu.
- Press the UP/DOWN button to scroll through the menu, select **Edit Show** and press the ENTER button to enter the next menu.
- Press the UP/DOWN button to scroll through the menu, select **Show 1/Show 2/Show 3**, then press the ENTER button to confirm.
- Press the UP/DOWN button to scroll through the menu, select **Chase 1 ~ Chase 8**, then press the ENTER button to confirm.
- Press the UP/DOWN button to change the value of the function, then press the ENTER button to confirm.
- Press the MENU button repeatedly to exit the menu and save changes.

## Edit Chase

The function **Edit Chase** allows you to create automatic pre-programmed show.

The automatic programs **Chase1 ~ Chase8**. Each Chase can be composed of **1 ~ 16 step** that can be configured through the following procedure:

- Press the MENU button to access the main menu.
- Press the UP/DOWN button to scroll the menu, select the **Stand Alone**, then press the ENTER button to enter the next menu.
- Press the UP/DOWN button to scroll through the menu, select **Edit Chases** and press the ENTER button to enter the next menu.
- Press the UP/DOWN button to scroll through the menu, select **Edit Chase 1 ~ Edit Chase 8**, then press the ENTER button to confirm.
- Press the UP/DOWN button to select the **Step 01 ~ Step 16**, and press ENTER to confirm.
- Press the UP/DOWN button to select the **Scene 1 ~ 32** you want to set for the Step chosen, and then press ENTER to confirm.
- Press the MENU button repeatedly to exit the menu and save changes.

## Edit Scenes

The function **Edit Scenes** allows you to create individual scenes to be included in the Chase Step.

- Press the MENU button to access the main menu.
- Press the UP/DOWN button to scroll the menu, select the **Stand Alone**, then press the ENTER button to enter the next menu.
- Press the UP/DOWN button to scroll through the menu, select **Edit Scenes** and press the ENTER button to enter the next menu.
- Press the UP/DOWN button to scroll through the menu, select **Edit Scene 1 ~ Edit Scene 32**, then press the ENTER button to confirm.
- Then choose the desired function: **New / Edit Scene** or **Copy Scene**.
- Press the UP/DOWN button to select the desired function you want to edit (**Shutter, Dimmer, etc.**), Then press the ENTER button to confirm.
- Press the UP/DOWN button to change the value of the function, then press the ENTER button to confirm.
- Press the MENU button repeatedly to exit the menu and save changes.

## Scenes Record

The **Scenes Record** function allows the recording of MOSAICOXL scenes through the console on which the fixture was stored in Scene Record, capable of driving the fixture functions expressed in DMX.

- Press the MENU button to access the main menu.
- Press the UP/DOWN button to scroll through the menu, select **Stand Alone**, then press the ENTER button to enter the next menu.
- Press the UP/DOWN button to scroll through the menu, select **Scenes Record** and press the ENTER button to enter the next menu.
- Press the UP/DOWN button to select the scene to be inserted in the automatic program, then press

- the ENTER button to confirm.
- Press the UP/DOWN button to select the scene to edit in the automatic program, then press the ENTER button to confirm. After pushing ENTER button, MOSAICOXL will wait for the confirm.
- From the DMX console, change the parameters of the MOSAICOXL based on the scene to be created.
- After creating the scene, press ENTER on the MOSAICOXL (the message STORED will appear).
- Press the MENU button repeatedly to exit the menu and save changes.

### Slave Setup

The function **Slave Setup** allows you to execute automatic pre-programmed show set on the master projector.

- Press the MENU button to access the main menu.
- Press the UP/DOWN button to scroll the menu, select **Stand Alone**, then press the ENTER button to enter the next menu.
- Press the UP/DOWN button to scroll through the menu, select **Slave Setup** and press the ENTER button to enter the next menu.
- Press the UP/DOWN button to scroll through the menu, select **Edit Scene 1 ~ Edit Scene 32**, then press the ENTER button to confirm.
- Press the UP/DOWN button to select the desired function you want to edit (**RGobo**, **Focus**, **Zoom**), Then press the ENTER button to confirm.
- Press the UP/DOWN button to change the value of the function, then press the ENTER button to confirm.
- Press the MENU button repeatedly to exit the menu and save changes.

NOTE: if the Slave units have to do the same operation as the MASTER, during a recording, the values of **Focus**, **Zoom** and **RGobo** will not be stored. These values must be adjusted manually on the Slave units, via this section.

### Scenes Time

The **Scenes Time** function allows you to set the input, duration and output times of each single scene.

- Press the ENTER key to access the main menu.
- Press the UP / DOWN button to scroll through the menu, select **Stand Alone**, then press the ENTER button to access the next menu.
- Press the UP / DOWN button to select **Scenes Time** and press the ENTER button to access the next menu.
- Press the UP / DOWN button to select **Scene 01 Time ~ Scene 32 Time**, then press the ENTER button.
- Press the UP / DOWN button to change the following times, then press the ENTER button to confirm:
  - Fade in Time - scene entry time.
  - Hold Time - time duration of the scene.
  - Fade Out Time - time out of the scene.

Press the MENU key several times to exit the menu and to save the changes made.

### Move blackout

The **Move Blackout** function allows you not to display the scroll between one scene and another; any kind of change between a scene and the next occurs "in the dark".

- Press the ENTER key to access the main menu.
- Press the UP / DOWN button to scroll through the menu, select **Stand Alone**, then press the ENTER button to access the next menu.
- Press the UP / DOWN button to select **Move Blackout** and press the ENTER button to access the next menu.
- Press the UP / DOWN button to select **On** or **Off** then press the ENTER button.
- Press the MENU key several times to exit the menu and to save the changes made.

When the projector is in **Stand Alone** it turns out to be MASTER, as well as if you enter or connect the projector to the DMX. When you exit the menu or disconnect the DMX connection, the projector restarts the show execution from the last scene interrupted by these two actions.

# 10 - SHORTCUT

KEYS	MODE	DESCRIPTION
MENU + ENTER then power on	Clear All	Clear all value of functions + factory default
UP + DOWN after power on	Flip Display	Directly flip display without enter inside menu

# 11 - RDM FUNCTIONS

The product can communicate using RDM (Remote Device Management) protocol over a DMX512 Networks.

RDM is a bi-directional communications protocol for use in DMX512 control systems, it is the open standard for DMX512 device configuration and status monitoring.

The RDM protocol allows data packets to be inserted into a DMX512 data stream without affecting existing non-RDM equipment. It allows a console or dedicated RDM controller to send commands to and receive messages from specific fixtures.

The PIDs in the following tables are supported in the product.

Category	Parameter	PID	GET	SET
<b>Product Information</b>	DEVICE_INFO	0x0060	x	
	PRODUCT_DETAIL_ID_LIST	0x0070	x	
	DEVICE_MODEL_DESCRIPTION	0x0080	x	
	MANUFACTURER_LABEL	0x0081	x	
	DEVICE_LABEL	0x0082	x	x
	FACTORY_DEFAULTS	0x0090	x	x
	SOFTWARE_VERSION_LABEL	0x00C0	x	
	BOOT_SOFTWARE_VERSION_ID	0x00C1	x	
	BOOT_SOFTWARE_VERSION_LABEL	0x00C2	x	
<b>DMX512 Setup</b>	DMX_PERSONALITY	0x00E0	x	x
	DMX_PERSONALITY_DESCRIPTION	0x00E1	x	
	DMX_START_ADDRESS	0x00F0	x	x
	SLOT_INFO	0x0120	x	
	SLOT_DESCRIPTION	0x0121	x	
	DEFAULT_SLOT_VALUE	0x0122	x	
	DMX_BLOCK_ADDRESS	0x0140	x	x
	DMX_FAIL_MODE	0x0141	x	x
	DMX_STARTUP_MODE	0x0142	x	x
<b>Dimmer Settings</b>	DIMMER_INFO	0x0340	x	
	MINIMUM_LEVEL	0x0341	x	x
	MAXIMUM_LEVEL	0x0342	x	x
	CURVE	0x0343	x	x
	CURVE_DESCRIPTION	0x0344	x	x
	OUTPUT_RESPONSE_TIME	0x0345	x	x
	OUTPUT_RESPONSE_TIME_DESCRIPTION	0x0346	x	
	MODULATION_FREQUENCY	0x0347	x	x
	MODULATION_FREQUENCY_DESCRIPTION	0x0348	x	
<b>Sensors</b>	SENSOR_DEFINITION	0x0200	x	
	SENSOR_VALUE	0x0201	x	x
	RECORD_SENSORS	0x0202		x
	BURN_IN	0x0440	x	x

<b>Power/Lamp Settings</b>	DEVICE_HOURS	0x0400	x	x
	LAMP_HOURS	0x0401	x	x
	LAMP_STRIKES	0x0402	x	x
	LAMP_STATE	0x0403	x	x
	LAMP_ON_MODE	0x0404	x	x
	DEVICE_POWER_CYCLES	0x0405	x	x
<b>Display Settings</b>	DISPLAY_INVERT	0x0500	x	x
	DISPLAY_LEVEL	0x0501	x	x
<b>Configuration</b>	REAL_TIME_CLOCK	0x0603	x	x
	LOCK_PIN	0x0640	x	x
	LOCK_STATE	0x0641	x	x
	LOCK_STATE_DESCRIPTION	0x0642	x	
<b>Control</b>	IDENTIFY_DEVICE	0x1000	x	x
	RESET_DEVICE	0x1001		x
	POWER_STATE	0x1010	x	x
	PERFORM_SELFTEST	0x1020	x	x
	SELF_TEST_DESCRIPTION	0x1021	x	
	CAPTURE_PRESET	0x1030	x	x
	PRESET_PLAYBACK	0x1031	x	x
	IDENTIFY_MODE	0x1040	x	x
	PRESET_INFO	0x1041	x	
	PRESET_STATUS	0x1042	x	x
	POWER_ON_SELF_TEST	0x1044	x	x

## Custom PIDs

Parameter	PID	GET	SET	Values	Description	Default Value
Clean Device Hours	0x8206	x	x	0-1	"0:No 1:Yes"	0
ADV GOBO INDEX		x	x	0-1	0:OFF 1:ON	1
ADV. FOCUS INDEX		x	x	0-1	0:OFF 1:ON	0
ADV. ZOOM INDEX		x	x	0-1	0:OFF 1:ON	0
Play Off	0x8230	x	x	0	0:Off	0
Play Show	0x8231	x	x	1-3	"1:Show 1 2:Show 2 3:Show 3"	1
Play Chase	0x8232	x	x	1-8	"1:Chase 1 ... 8:Chase 8"	1
Play Scence	0x8233	x	x	1-32	"1:Scene 1 ... 32:Scene 32"	1
Scene 01 Fade In Time	0x8234	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 01 Hole Time	0x8235	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 01 Fade Out Time	0x8236	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 02 Fade In Time	0x8237	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S



Parameter	PID	GET	SET	Values	Description	Default Value
Scene 02 Hole Time	0x8238	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 02 Fade Out Time	0x8239	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 03 Fade In Time	0x823A	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 03 Hole Time	0x823B	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 03 Fade Out Time	0x823C	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 04 Fade In Time	0x823D	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 04 Hole Time	0x823E	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 04 Fade Out Time	0x823F	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 05 Fade In Time	0x8240	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 05 Hole Time	0x8241	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 05 Fade Out Time	0x8242	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 06 Fade In Time	0x8243	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 06 Hole Time	0x8244	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 06 Fade Out Time	0x8245	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 07 Fade In Time	0x8246	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 07 Hole Time	0x8247	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 07 Fade Out Time	0x8248	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 08 Fade In Time	0x8249	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 08 Hole Time	0x824A	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 08 Fade Out Time	0x824B	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 09 Fade In Time	0x824C	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 09 Hole Time	0x824D	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 09 Fade Out Time	0x824E	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 10 Fade In Time	0x824F	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 10 Hole Time	0x8250	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 10 Fade Out Time	0x8251	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 11 Fade In Time	0x8252	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 11 Hole Time	0x8253	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 11 Fade Out Time	0x8254	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 12 Fade In Time	0x8255	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 12 Hole Time	0x8256	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 12 Fade Out Time	0x8257	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 13 Fade In Time	0x8258	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 13 Hole Time	0x8259	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 13 Fade Out Time	0x825A	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 14 Fade In Time	0x825B	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 14 Hole Time	0x825C	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 14 Fade Out Time	0x825D	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 15 Fade In Time	0x825E	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 15 Hole Time	0x825F	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 15 Fade Out Time	0x8260	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 16 Fade In Time	0x8261	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 16 Hole Time	0x8262	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 16 Fade Out Time	0x8263	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 17 Fade In Time	0x8264	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 17 Hole Time	0x8265	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 17 Fade Out Time	0x8266	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 18 Fade In Time	0x8267	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 18 Hole Time	0x8268	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S

Parameter	PID	GET	SET	Values	Description	Default Value
Scene 18 Fade Out Time	0x8269	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 19 Fade In Time	0x826A	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 19 Hole Time	0x826B	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 19 Fade Out Time	0x826C	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 20 Fade In Time	0x826D	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 20 Hole Time	0x826E	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 20 Fade Out Time	0x826F	x	x	0 - 36000	0000.0S - 3600.0S	0000.0S
Scene 21 Fade In Time	0x8270	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 21 Hole Time	0x8271	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 21 Fade Out Time	0x8272	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 22 Fade In Time	0x8273	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 22 Hole Time	0x8274	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 22 Fade Out Time	0x8275	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 23 Fade In Time	0x8276	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 23 Hole Time	0x8277	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 23 Fade Out Time	0x8278	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 24 Fade In Time	0x8279	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 24 Hole Time	0x827A	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 24 Fade Out Time	0x827B	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 25 Fade In Time	0x827C	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 25 Hole Time	0x827D	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 25 Fade Out Time	0x827E	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 26 Fade In Time	0x827F	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 26 Hole Time	0x8280	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 26 Fade Out Time	0x8281	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 27 Fade In Time	0x8282	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 27 Hole Time	0x8283	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 27 Fade Out Time	0x8284	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 28 Fade In Time	0x8285	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 28 Hole Time	0x8286	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 28 Fade Out Time	0x8287	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 29 Fade In Time	0x8288	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 29 Hole Time	0x8289	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 29 Fade Out Time	0x828A	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 30 Fade In Time	0x828B	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 30 Hole Time	0x828C	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 30 Fade Out Time	0x828D	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 31 Fade In Time	0x828E	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 31 Hole Time	0x828F	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 31 Fade Out Time	0x8290	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 32 Fade In Time	0x8291	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 32 Hole Time	0x8292	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Scene 32 Fade Out Time	0x8293	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Chase 1 Time	0x8294	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Chase 2 Time	0x8295	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Chase 3 Time	0x8296	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Chase 4 Time	0x8297	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Chase 5 Time	0x8298	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Chase 6 Time	0x8299	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S

Parameter	PID	GET	SET	Values	Description	Default Value
Chase 7 Time	0x829A	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Chase 8 Time	0x829B	x	x	0 - 36000	0000.0S - 3600.0S	0001.0S
Move with blackout-Scene 01	0x829C	x	x	0-1	0:Off 1:On	Off
Move with blackout-Scene 02	0x829D	x	x	0-1	0:Off 1:On	Off
Move with blackout-Scene 03	0x829E	x	x	0-1	0:Off 1:On	Off
Move with blackout-Scene 04	0x829F	x	x	0-1	0:Off 1:On	Off
Move with blackout-Scene 05	0x82A0	x	x	0-1	0:Off 1:On	Off
Move with blackout-Scene 06	0x82A1	x	x	0-1	0:Off 1:On	Off
Move with blackout-Scene 07	0x82A2	x	x	0-1	0:Off 1:On	Off
Move with blackout-Scene 08	0x82A3	x	x	0-1	0:Off 1:On	Off
Move with blackout-Scene 09	0x82A4	x	x	0-1	0:Off 1:On	Off
Move with blackout-Scene 10	0x82A5	x	x	0-1	0:Off 1:On	Off
Move with blackout-Scene 11	0x82A6	x	x	0-1	0:Off 1:On	Off
Move with blackout-Scene 12	0x82A7	x	x	0-1	0:Off 1:On	Off
Move with blackout-Scene 13	0x82A8	x	x	0-1	0:Off 1:On	Off
Move with blackout-Scene 14	0x82A9	x	x	0-1	0:Off 1:On	Off
Move with blackout-Scene 15	0x82AA	x	x	0-1	0:Off 1:On	Off
Move with blackout-Scene 16	0x82AB	x	x	0-1	0:Off 1:On	Off
Move with blackout-Scene 17	0x82AC	x	x	0-1	0:Off 1:On	Off
Move with blackout-Scene 18	0x82AD	x	x	0-1	0:Off 1:On	Off
Move with blackout-Scene 19	0x82AE	x	x	0-1	0:Off 1:On	Off
Move with blackout-Scene 20	0x82AF	x	x	0-1	0:Off 1:On	Off
Move with blackout-Scene 21	0x82B0	x	x	0-1	0:Off 1:On	Off
Move with blackout-Scene 22	0x82B1	x	x	0-1	0:Off 1:On	Off
Move with blackout-Scene 23	0x82B2	x	x	0-1	0:Off 1:On	Off
Move with blackout-Scene 24	0x82B3	x	x	0-1	0:Off 1:On	Off
Move with blackout-Scene 25	0x82B4	x	x	0-1	0:Off 1:On	Off
Move with blackout-Scene 26	0x82B5	x	x	0-1	0:Off 1:On	Off
Move with blackout-Scene 27	0x82B6	x	x	0-1	0:Off 1:On	Off
Move with blackout-Scene 28	0x82B7	x	x	0-1	0:Off 1:On	Off
Move with blackout-Scene 29	0x82B8	x	x	0-1	0:Off 1:On	Off
Move with blackout-Scene 30	0x82B9	x	x	0-1	0:Off 1:On	Off
Move with blackout-Scene 31	0x82BA	x	x	0-1	0:Off 1:On	Off
Move with blackout-Scene 32	0x82BB	x	x	0-1	0:Off 1:On	Off

12 - DMX CHARTS

Ch	Basic	Standard	Extended	Scene Record
1	SHUTTER	SHUTTER	SHUTTER	SHUTTER
2	DIMMER	DIMMER	DIMMER	DIMMER
3	COLOR WHEEL	DIMMER FINE	DIMMER FINE	COLOR WHEEL
4	ROTATING GOBO	COLOR WHEEL	COLOR WHEEL	ROTATING GOBO
5	GOBO ROTATION	ROTATING GOBO	ROTATING GOBO	GOBO ROTATION
6	FOCUS	GOBO ROTATION	GOBO ROTATION	FOCUS
7	ZOOM	FOCUS	FOCUS	ZOOM
8	CONTROL	FOCUS FINE	FOCUS FINE	
9		ZOOM	ZOOM	
10		ZOOM FINE	ZOOM FINE	
11		CONTROL	SHOW	
12			CHASE	
13			SCENES	
14			RECORD SCENE	

8 CH	11 CH	14 CH	Scene Record	Function	DMX Value	Default
1	1	1	1	<b>SHUTTER</b> Close Open Strobe from slow to fast Open Pulse effect in sequences Open Random from slow to fast Open	000 ÷ 031 032 ÷ 063 064 ÷ 095 096 ÷ 127 128 ÷ 159 160 ÷ 191 192 ÷ 223 224 ÷ 255	255
2	2	2	2	<b>DIMMER</b> Linear from 0% to 100%	000 ÷ 255	000
	3	3		<b>DIMMER FINE</b>	000 ÷ 255	000
3	4	4	3	<b>COLOR WHEEL</b> <b>Indexed</b> Open Open + DARK RED DARK RED DARK RED + CONGO BLUE CONGO BLUE CONGO BLUE + YELLOW YELLOW YELLOW + GREEN GREEN GREEN + MAGENTA MAGENTA MAGENTA + CTO 2700K CTO 2700K CTO 2700K + CTO 3200K CTO 3200K CTO 3200K + Open <b>Forward Spin</b> From fast to slow <b>Stop</b> Stop rotation <b>Reverse Spin</b> From slow to fast Positing from Open to Color 7	000 ÷ 003 004 ÷ 007 008 ÷ 011 012 ÷ 015 016 ÷ 019 020 ÷ 023 024 ÷ 027 028 ÷ 031 032 ÷ 035 036 ÷ 039 040 ÷ 043 044 ÷ 047 048 ÷ 051 052 ÷ 055 056 ÷ 059 060 ÷ 063  064 ÷ 094  095 ÷ 096  097 ÷ 127 128 ÷ 255	000

8 CH	11 CH	14 CH	Scene Record	Function	DMX Value	Default
4	5	5	4	<b>ROTATING GOBO</b>		
				<b>Indexed</b>		
				Open	000 ÷ 005	
				Gobo 1	006 ÷ 010	
				Gobo 2	011 ÷ 015	
				Gobo 3	016 ÷ 020	
				Gobo 4	021 ÷ 025	
				Gobo 5	026 ÷ 030	
				Gobo 6	031 ÷ 035	
				Gobo 7	036 ÷ 040	
				<b>Shake</b>		
				Gobo 1 from slow to fast	041 ÷ 055	000
				Gobo 2 from slow to fast	056 ÷ 070	
				Gobo 3 from slow to fast	071 ÷ 085	
				Gobo 4 from slow to fast	086 ÷ 100	
				Gobo 5 from slow to fast	101 ÷ 115	
				Gobo 6 from slow to fast	116 ÷ 130	
				Gobo 7 from slow to fast	131 ÷ 145	
				<b>Forward Spin</b>		
				From fast to slow	146 ÷ 199	
				<b>Stop</b>		
				Stop Rotation	200 ÷ 201	
				<b>Reverse Spin</b>		
				From slow to fast	202 ÷ 255	
5	6	6	5	<b>GOBO ROTATION</b>		
				<b>Continuous</b>		
				Lineary from 0° to 360°	000 ÷ 191	000
				<b>Forward Spin</b>		
				From fast to slow	192 ÷ 221	
6	7	7	6	<b>Stop</b>		
				Stop	222 ÷ 225	
7	8	8	7	<b>Reverse Spin</b>		128
				From slow to fast	226 ÷ 255	
7	9	9	7	<b>FOCUS</b>		
				Lineary from in to out	000 ÷ 255	128
7	10	10	7	<b>FOCUS FINE</b>		
					000 ÷ 255	128
8	11	11	8	<b>ZOOM</b>		
				Linear from Narrow to Wide	000 ÷ 255	128
8	12	12	8	<b>ZOOM FINE</b>		
					000 ÷ 255	128
8	11	11	8	<b>CONTROL</b>		
				No function	000 ÷ 059	000
				Enable blackout while color change (hold 3 sec)	060 ÷ 069	
				Disable blackout while color change (hold 3 sec)	070 ÷ 079	
				Enable blackout while gobo change (hold 3 sec)	080 ÷ 089	
				Disable blackout while gobo change (hold 3 sec)	090 ÷ 099	
				Color reset (hold 3 sec)	100 ÷ 109	
				Gobo reset (hold 3 sec)	110 ÷ 119	
				Focus reset (hold 3 sec)	120 ÷ 129	
				Zoom reset (hold 3 sec)	130 ÷ 139	
				Adv. gobo index ON	140 ÷ 141	
				Adv. gobo index OFF	142 ÷ 143	
				Adv. focus index ON	144 ÷ 145	
				Adv. focus index OFF	146 ÷ 147	
				Adv. zoom index ON	148 ÷ 149	
				Adv. zoom index OFF	150 ÷ 151	
				No function	152 ÷ 199	
				Reset all (hold 3 sec)	200 ÷ 209	
				No function	210 ÷ 255	
8	12	12	8	<b>SHOW</b>		
				No Function	000 ÷ 063	000
				Show 1	064 ÷ 127	
				Show 2	128 ÷ 191	
8	12	12	8	Show 3	192 ÷ 255	
				<b>CHASE</b>		
				No Function	000 ÷ 028	000
				Chase 1	029 ÷ 056	
				Chase 2	057 ÷ 085	
				Chase 3	086 ÷ 113	
				Chase 4	114 ÷ 141	
				Chase 5	142 ÷ 170	
				Chase 6	171 ÷ 198	
				Chase 7	199 ÷ 226	
				Chase 8	227 ÷ 255	

8 CH	11 CH	14 CH	Scene Record	Function	DMX Value	Default
		13		<b>SCENES</b> No Function Scene 1 Scene 2 Scene 3 Scene 4 Scene 5 Scene 6 Scene 7 Scene 8 Scene 9 Scene 10 Scene 11 Scene 12 Scene 13 Scene 14 Scene 15 Scene 16 Scene 17 Scene 18 Scene 19 Scene 20 Scene 21 Scene 22 Scene 23 Scene 24 Scene 25 Scene 26 Scene 27 Scene 28 Scene 29 Scene 30 Scene 31 Scene 32	000 ÷ 007 008 ÷ 015 016 ÷ 023 024 ÷ 030 031 ÷ 038 039 ÷ 046 047 ÷ 054 055 ÷ 061 062 ÷ 069 070 ÷ 077 078 ÷ 085 086 ÷ 092 093 ÷ 100 101 ÷ 108 109 ÷ 115 116 ÷ 123 124 ÷ 131 132 ÷ 139 140 ÷ 146 147 ÷ 154 155 ÷ 162 163 ÷ 170 171 ÷ 177 178 ÷ 185 186 ÷ 193 194 ÷ 200 201 ÷ 208 209 ÷ 216 217 ÷ 224 225 ÷ 231 232 ÷ 239 240 ÷ 247 248 ÷ 255	000
		14		<b>RECORD SCENE</b> No Function Edit Scene mode Record Scene mode	000 ÷ 010 011 ÷ 128 129 ÷ 255	000

NOTE: for RECORD SCENE function follow the steps described below:

1. Select a scene from 1 to 32 with the SCENES function by setting a value from 008 to 255 of DMX Channel 13 in 14Ch DMX mode;
2. To save the scene at the previously selected position set a value from 129 to 255 on DMX Channel 14 in 14Ch DMX mode;
3. Hold the DMX value set in step 2 for 3 seconds.

# 13 - GOBOS WHEEL

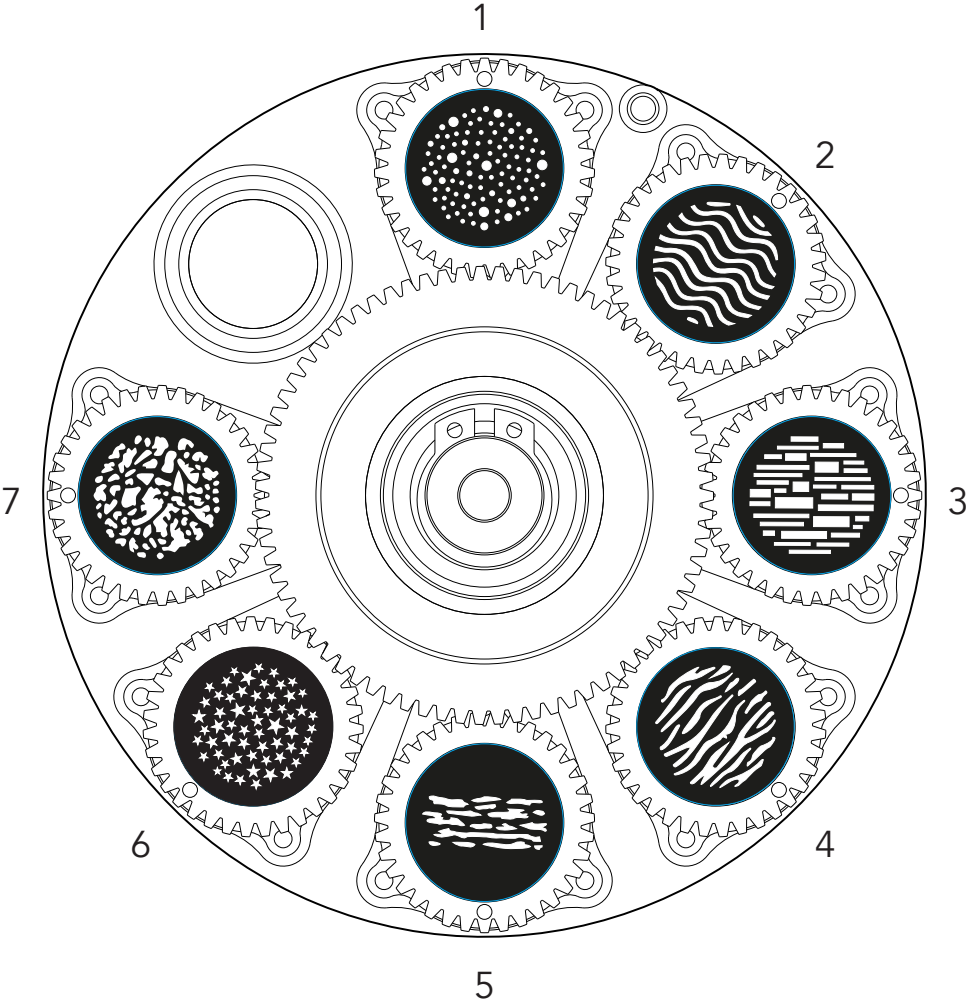


Fig. 11

# 14 - COLOR WHEEL

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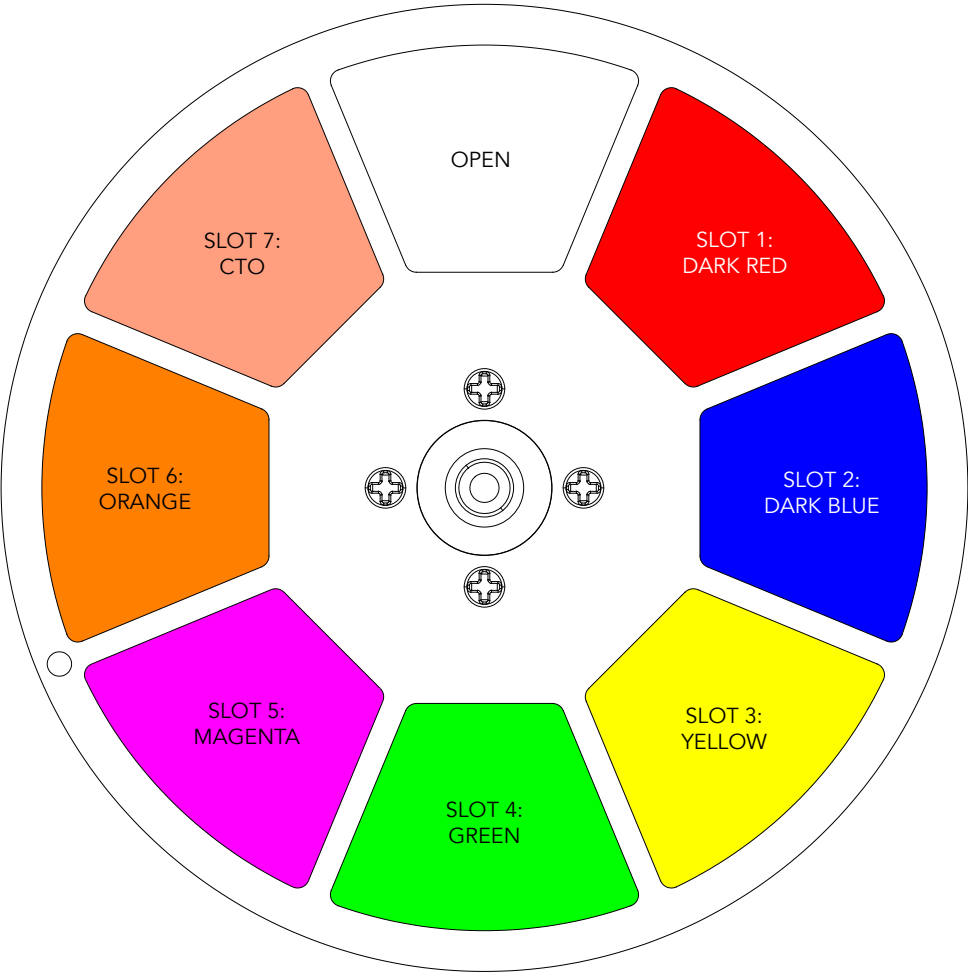


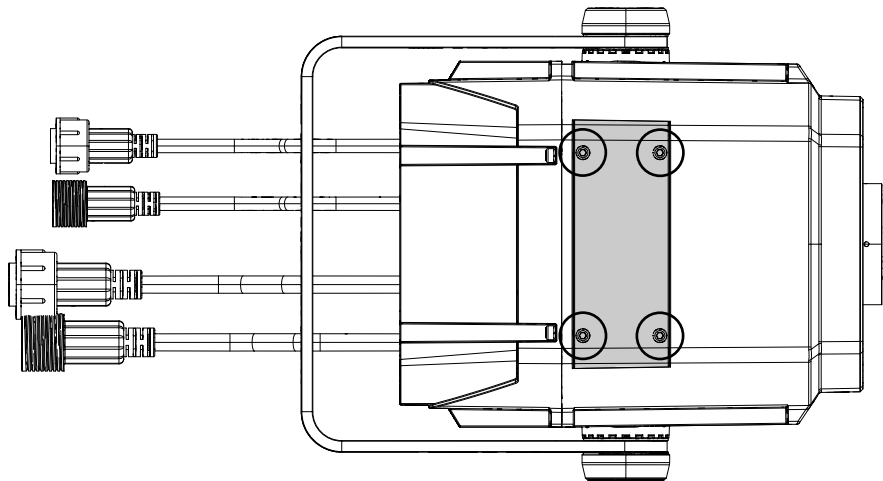
Fig. 12



# 15 - GOBOS REPLACEMENT

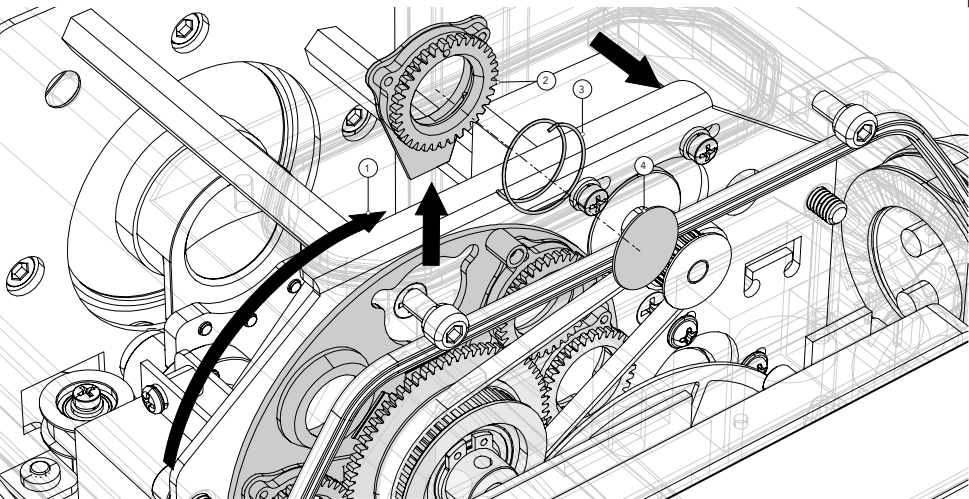
WARNING! Turn OFF power and allow approximately 20 minutes for the fixture to cool down.

1



Use a 4 mm allen key (hex wrench) to remove the marked four screws of the top cover and remove it.

2



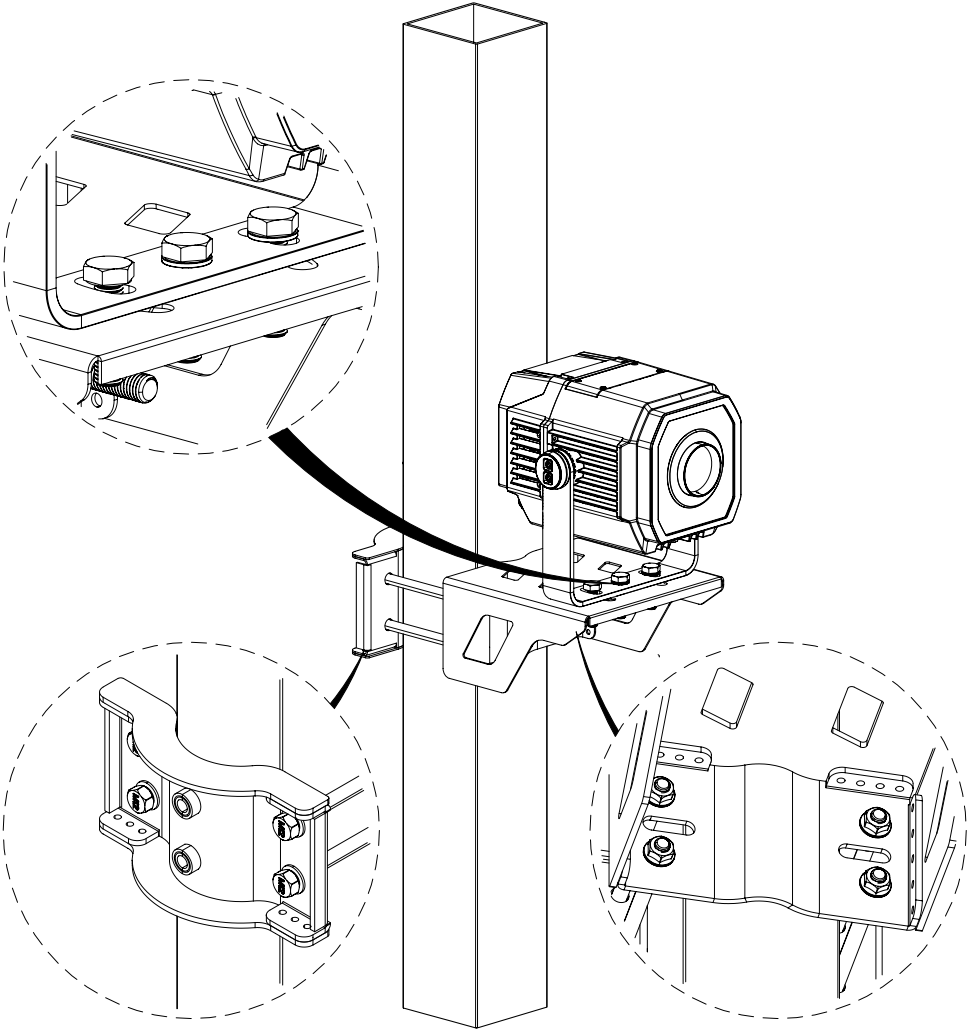
Rotate the animation wheel to position the gobo holder to be extracted upwards (1). Apply a push to the gobo holder and extract it (2) from the gobo wheel. Then remove the spring (2) and the gobo (C). To insert the new gobo, follow the reverse procedure respecting the direction of the painted part. Verify that the gobos run without hindrance and reassemble the group following the procedure in reverse. NOTES: gobo holder with magnet need to be fit obligatory inside slot number 2 (see paragraph "Gobos wheel").

Fig. 13

# 16 - ACCESSORIES INSTALLATION

## BRACKET FOR WALL MOUNTING AND SUSPENSION ON POLES (CODE MOSUNIBRACKJR)

1



**NOTE**

Do not mount the bracket on a support whose surface shows deformations, injuries, crushing, etc.  
Both the bracket and the unit must be secured with a safety cable.

Fig. 14

## 17 - ERROR MESSAGES

The error is shown on the unit display. In the table below, the "ERROR SHOWED ON SCREEN" column lists the possible errors, accompanied by a possible cause ("POSSIBLE" CAUSES "column).

ERROR SHOWED ON SCREEN	POSSIBLE CAUSES
[LED ERROR]	This error message is displayed when the LED is switched OFF without a command from the product control system
[LED TEMPERATURE ERROR]	This error message indicates that an overheating on the LED has occurred and the lamp has been switched OFF by the product protection system.
[LED TEMPERATURE SENSOR ERROR]	LED sensor damaged (open or in short circuit)
[LED DRIVER TEMPERATURE ERROR]	This error message indicates that an overheating on the LED DRIVER has occurred and the lamp has been switched OFF by the product protection system.
[LED DRIVER TEMPERATURE SENSOR ERROR]	LED DRIVER sensor damaged (open or in short circuit)
[LED AIR IN (LOWER) FAN ERROR]	Air in blower for cooling the lamp failed, the lamp has been switched OFF.
[LED AIR OUT (UPPER) FAN ERROR]	Air out blower for cooling the lamp failed, the lamp has been switched OFF.
[GOBO FAN ERROR]	Blower for cooling the gobo failed
[MOTOR PCB 1 ERROR]	Motor pcb 1 not detected
[MOTOR PCB 2 ERROR]	Motor pcb 2 not detected
[MOTOR PCB 3 ERROR]	Motor pcb 3 not detected
[FOCUS ERROR]	Failure detected during the reset of the FOCUS system, if the focus lens is not located in its default position.
[GOBO WHEEL ERROR]	Failure detected during the reset of the rotating gobo wheel, if this wheel is not located in the default position
[GOBO ROTATION ERROR]	Failure detected during the reset of the rotation of the rotating gobo, if the rotating gobos are not located in the default positions
[ZOOM ERROR]	Failure detected during the reset of the ZOOM system, if the focus lens is not located in its default position.
[COLOR WHEEL ERROR]	Failure detected during the reset of the color wheel, if this wheel is not located in the default position
[FRAME ROTATION ERROR]	Failure detected during the reset of the frame rotation, if this frame is not located in the default position
[MEMORY ERROR]	SD card not detected
[DISPLAY BATTERY ERROR]	Recharge The battery on the display board, keeping the product ON for some hours.
	If the error still occurs, the battery is faulty . Replace the battery on the display board.

## 18 - MAINTENANCE

### MAINTENANCE AND CLEANING THE PRODUCT

**WARNING:** Disconnect from the mains before starting any maintenance work

It is recommended to clean the front at regular intervals, from impurities caused by dust, smoke, or other particles to ensure that the light is radiated at maximum brightness.

- For cleaning, disconnect the main plug from the socket. Use a soft, clean cloth moistened with a mild detergent. Then carefully wipe the part dry. For cleaning other housing parts use only a soft, clean cloth. Never use a liquid, it might penetrate the unit and cause damage to it.
- The user must clean the product periodically to maintain optimum performance and cooling. The user may also upload firmware (product software) to the fixture via the DMX signal input port or USB port using firmware and instructions from PROLIGHTS.
- The frequency of such maintenance operations is to be performed according to various factors, such as the amount of the use and the condition of the installation environment (air humidity, presence of dust, salinity, etc.). It is recommended that the product is subject to annual service by a qualified technician for special maintenance involving at least the following procedures:
- General cleaning of internal parts.
- For all the parts subject to friction, using lubricants specifically supplied by PROLIGHTS.
- General visual check of the internal components, cabling, mechanical parts, etc.
- Electrical, photometric and functional checks; eventual repairs.
- Cleaning the lenses. Only use neutral soap and water to clean the lenses, then dry it carefully with a soft, non-abrasive cloth.

**WARNING:** the use of alcohol or any other detergent could damage the lenses.

- All other service operations on the product must be carried out by PROLIGHTS, its approved service agents or trained and qualified personnel.
- It is PROLIGHTS policy to apply the strictest possible calibration procedures and use the best quality materials available to ensure optimum performance and the longest possible component lifetimes. However, optical components are subject to wear and tear over the life of the product, resulting in gradual changes in colours over many thousands of hours of use. The extent of wear and tear depends heavily on operating conditions and environment, so it is impossible to specify precisely whether and to what extent performance will be affected. However, you may eventually need to replace optical components if their characteristics are affected by wear and tear after an extended period of use and if you require fixtures to perform within very precise optical and colour parameters.
- Do not apply filters, lenses or other materials on lenses or other optical components. Use only accessories approved by PROLIGHTS.

### VISUAL CHECK OF PRODUCT HOUSING

- The parts of the product cover/housing should be checked for eventual damages and breaking start at least every two months. In addition, especially the parts of the front lens holder have to be checked mechanically (by means of movement by the part) if it is firmly fastened to the fixture. If hint of a crack is found on some plastic part, do not use the product until the damaged part will be replaced.
- Cracks or another damages of the cover/housing parts can be caused by the product transportation or manipulation and also ageing process may influence materials.
- This checking is necessary for both fixed installations and preparing product for renting. Any free moving parts inside of the product, cracked cover/housing or any part of front lens not sitting properly in place need to be immediately replaced.

## TROUBLESHOOTING

Problems	Possible causes	Checks and remedies
Product doesn't power ON	<ul style="list-style-type: none"> <li>No power to the product.</li> </ul>	<ul style="list-style-type: none"> <li>Check that power is switched ON and cables are plugged in.</li> </ul>
	<ul style="list-style-type: none"> <li>Fuse blown or internal fault.</li> </ul>	<ul style="list-style-type: none"> <li>Check if the Fuse is intact and eventually replace it if necessary.</li> <li>Contact the PROLIGHTS Service or authorized service partner. Do not remove parts and/or covers, or carry out any repairs or service that are not described in this Safety and User Manual unless you have both authorization from PROLIGHTS and the service documentation.</li> </ul>
Product reset correctly but does not respond correctly to the controller.	<ul style="list-style-type: none"> <li>Bad signal connection.</li> </ul>	<ul style="list-style-type: none"> <li>Inspect connections and cables. Fix eventual bad connections. Repair or replace damaged cables.</li> </ul>
	<ul style="list-style-type: none"> <li>Signal connection not terminated.</li> </ul>	<ul style="list-style-type: none"> <li>Insert DMX termination plug in signal output socket of the last product on the signal line.</li> </ul>
	<ul style="list-style-type: none"> <li>Incorrect addressing of the product.</li> </ul>	<ul style="list-style-type: none"> <li>Check the product address and control settings</li> </ul>
	<ul style="list-style-type: none"> <li>One of the product is defective and is corrupting the signal transmission on the signal line.</li> </ul>	<ul style="list-style-type: none"> <li>Unplug the XLR in and out connectors and connect them directly together to bypass one product at a time until normal operation is regained. Once found the error, have that fixture serviced by a qualified technician.</li> </ul>
Timeout error after fixture reset.	<ul style="list-style-type: none"> <li>One or more hardware components requires mechanical adjustments.</li> </ul>	<ul style="list-style-type: none"> <li>Check product stored error messages for more information. Contact PROLIGHTS Service or an authorized service partner.</li> </ul>
Mechanical effect loses position	<ul style="list-style-type: none"> <li>Mechanical hardware require cleaning, adjustment or lubrication.</li> </ul>	<ul style="list-style-type: none"> <li>Check product stored error messages for more information. Contact PROLIGHTS Service or an authorized service partner.</li> </ul>
Light output turn OFF Intermittently	<ul style="list-style-type: none"> <li>Fixture is too hot.</li> </ul>	<ul style="list-style-type: none"> <li>Check product stored error messages.</li> <li>Allow product to cool.</li> <li>Clean the product and airflow filters.</li> <li>Reduce ambient temperature.</li> </ul>
	<ul style="list-style-type: none"> <li>Hardware failure (temperature sensor, fans, Light source...).</li> </ul>	<ul style="list-style-type: none"> <li>Check product stored error messages for more information. Contact PROLIGHTS Service or an authorized service partner.</li> </ul>
General low light intensity	<ul style="list-style-type: none"> <li>Dirty lens assembly.</li> </ul>	<ul style="list-style-type: none"> <li>Clean the fixture regularly.</li> </ul>
	<ul style="list-style-type: none"> <li>Dirty or damaged filters.</li> </ul>	<ul style="list-style-type: none"> <li>Install lens assembly properly.</li> </ul>

Contact an authorized service center in case of technical problems or not reported in the table can not be resolved by the procedure given in the table.

[illegible]



