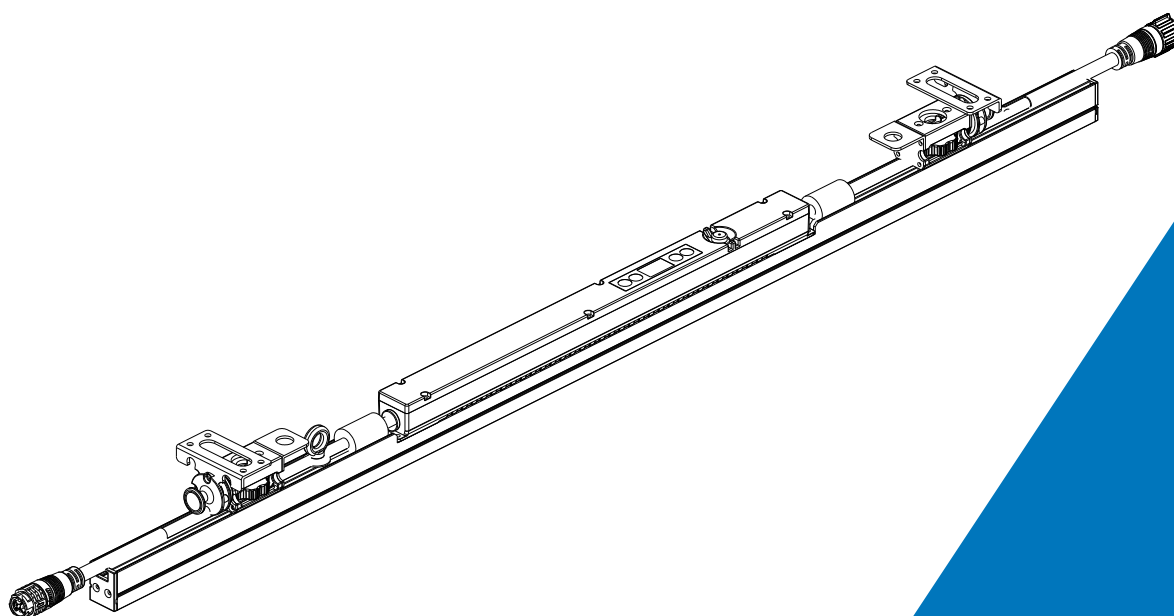




PIXEL LINE SLIM



User Manual

Please read the instruction carefully before use

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01/ Safety Information



Please read the instruction carefully which includes important information about the installation, usage and maintenance.

WARNING

Please keep this User Manual for future consultation. If you sell the unit to another user, be sure that they also receive this instruction manual.

Important:

Damages caused by the disregard of this user manual are not subject to warranty. The dealer will not accept liability for any resulting defects or problems.

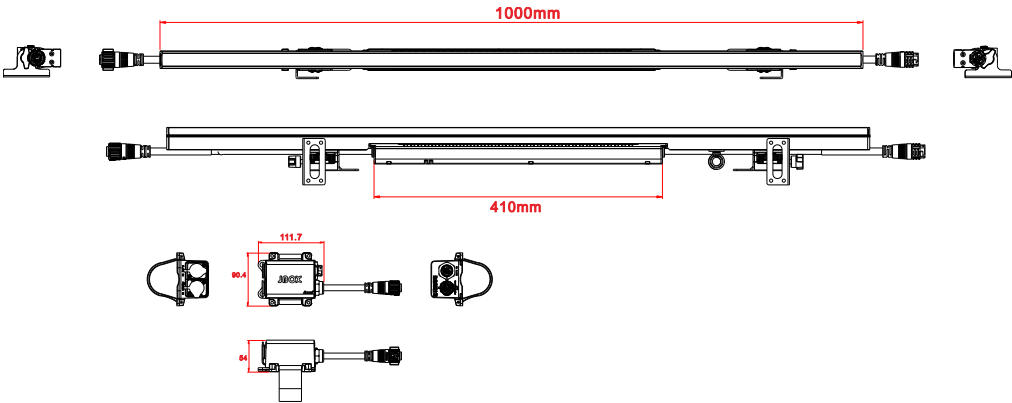
- Unpack and check carefully to ensure that there is no transportation damage before using the unit.
- This product is for indoor use only. Use only in a dry location.
- DO install and operate by qualified operator.
- DO NOT allow children to operate the fixture.
- Use safety chain when fixing the unit. Handle the unit by carrying its base instead of head only.
- The unit must be installed in a location with adequate ventilation, at least 50cm from adjacent surfaces.
- Be sure that no ventilation slots is blocked, otherwise the unit will be overheated.
- Before operation, ensure that you are connecting this product to the proper voltage in accordance with the specifications in this manual or on the product's specification label.
- It's important to ground the yellow/green conductor to earth in order to avoid electric shock.
- Minimum ambient temperature TA: -20°C. Maximum ambient temperature TA: 45°C. Do not operate this product at a lower or higher temperature.
- DO NOT connect the device to any dimmer pack.
- Keep flammable materials away from the fixture while operating to avoid fire hazard.
- Make sure the power cord is not crimped or damaged; replace it immediately if damaged.
- Unit's surface temperature may reach up to 65°C. DO NOT touch the housing bare-handed during its operation.
- Avoid any flammable liquids, water or metal from entering the unit. Once it happens, cut

off the mains power immediately.

- DO NOT operate in a dirty or dusty environment. DO clean the fixture regularly.
- DO NOT touch any wire during operation as there might be a hazard of electric shock.
- Avoid entanglement of the power cord with other wires.
- The minimum distance to objects/surface must be more than 0.2 meters.
- In the event of serious operating problem, stop using the unit immediately.
- Never turn on and off the unit time after time.
- The housing, the lenses, or the ultraviolet filter must be replaced if they are visibly damaged.
- DO NOT open the housing as there are no user serviceable parts inside.
- DO NOT attempt to operate this unit if it becomes damaged. DO NOT attempt any repairs yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center if needed.
- Disconnect this product from its power source before servicing.
- DO use the original packaging if the device is to be transported.
- Avoid direct eye exposure to the light source while the product is on.
- DO NOT operate this product if you see damage on the housing, shields, or cables. Have the damaged parts replaced by an authorized technician at once.

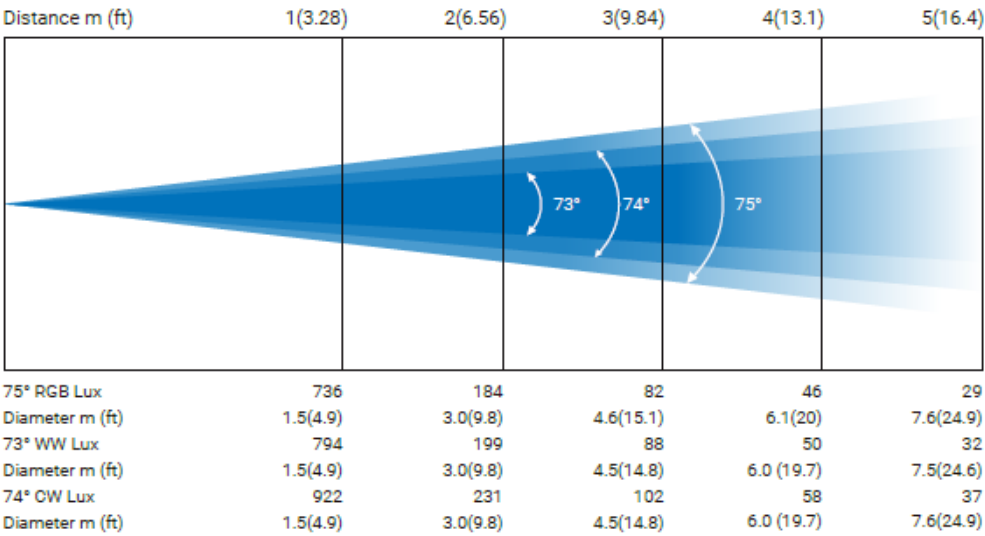
02/ Technical Specifications

AC Power	100-240Vac; 50/60Hz	
Max. Power Consumption	50W	
Light Source	48x1.2W RGB LEDs 48x1.2W WW LEDs 48x1.2W CW LEDs	
Beam Angle	73°	
Field Angle	116°	
Control and Programming	DMX Channels	14/19/24/29/39/49/69/89/129/244/249
	Protocols	Art-Net
		sACN
		RDM
	Firmware Update	via Ethernet
Construction	Display	LCD play
	Power In/Out	Hybrid Power Data Cable in/out
	Protection Rating	IP66 (Warning: Do not immerse the vent valve in water.)
Dynamic Effects	3 RGBW LED zones with individual control	
	0-100% continuous dimming and strobe effects	
	Choice of four dimming curves	
	Variable color temperature control	
	Outstanding color mixing	
	Individual pixel control and built-in color macro effects	
	High standard CRI: Ra $\geq$ 97(WW); Ra $\geq$ 95 (CW)	
Included Items	Power Cable	
	User Manual (this document)	
Dimensions	44.5x82x 1000mm	1.75''x3.23''x39.37''
Weight	2 kg	4.4lbs

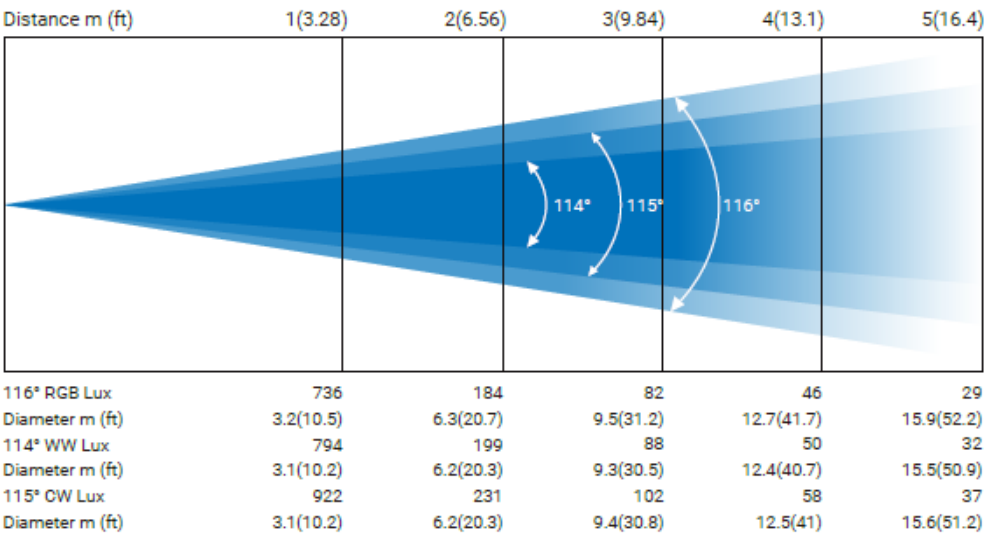


Photometric Diagram:

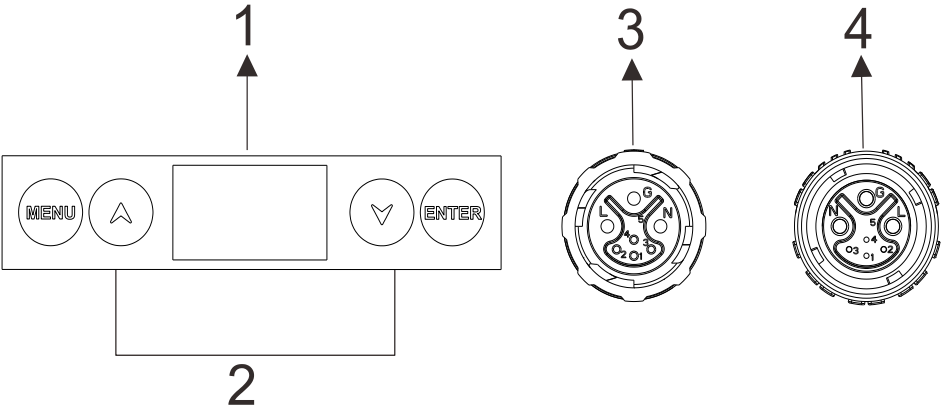
Beam Angle:



Field Angle:



03/ Overview



1. Display	To show the various menus and the selected function	
2. Buttons	MENU	To enter into move backward or leave the menu
	▲ UP	To go backward to move up in the menu
	▼ DOWN	To go forward to move down in the menu
	ENTER	To perform the desired functions
3. Hybrid In	Connect to the JBOX or the output of the previous fixture	
4. Hybrid Out	Connect to the input of the next fixture.	

04/ Connecting Power and Data

4.1 Connecting Power

This fixture can operate on any 100-240Vac; 50/60Hz AC mains power supply.

The maximum power consumption is 50W.

The fixture must be grounded/earthed and able to be isolated from AC power. The AC power supply must incorporate a fuse or circuit breaker for fault protection.

Wiring and connection work must be carried out by a qualified electrician.

The power cable color coding is given in the figure below:

Wire	Color (US)	Wire	Color (EU)	Symbol	Conductor
	black		brown	L	live
	white		blue	N	neutral
	green		yellow/green	$\perp$ or $\oplus$	ground (earth)

CAUTION!

DO NOT CONNECT THE FIXTURE TO AN ELECTRICAL DIMMER SYSTEM AS DOING SO MAY CAUSE DAMAGE.

4.2 Connecting Data

Power and Data Connection

Power and control signals are transmitted to the fixture via a hybrid cable with a hybrid connector. This cable carries both power and network data, allowing multiple fixtures to be easily connected in a daisy chain without the need for additional signal cables between them.

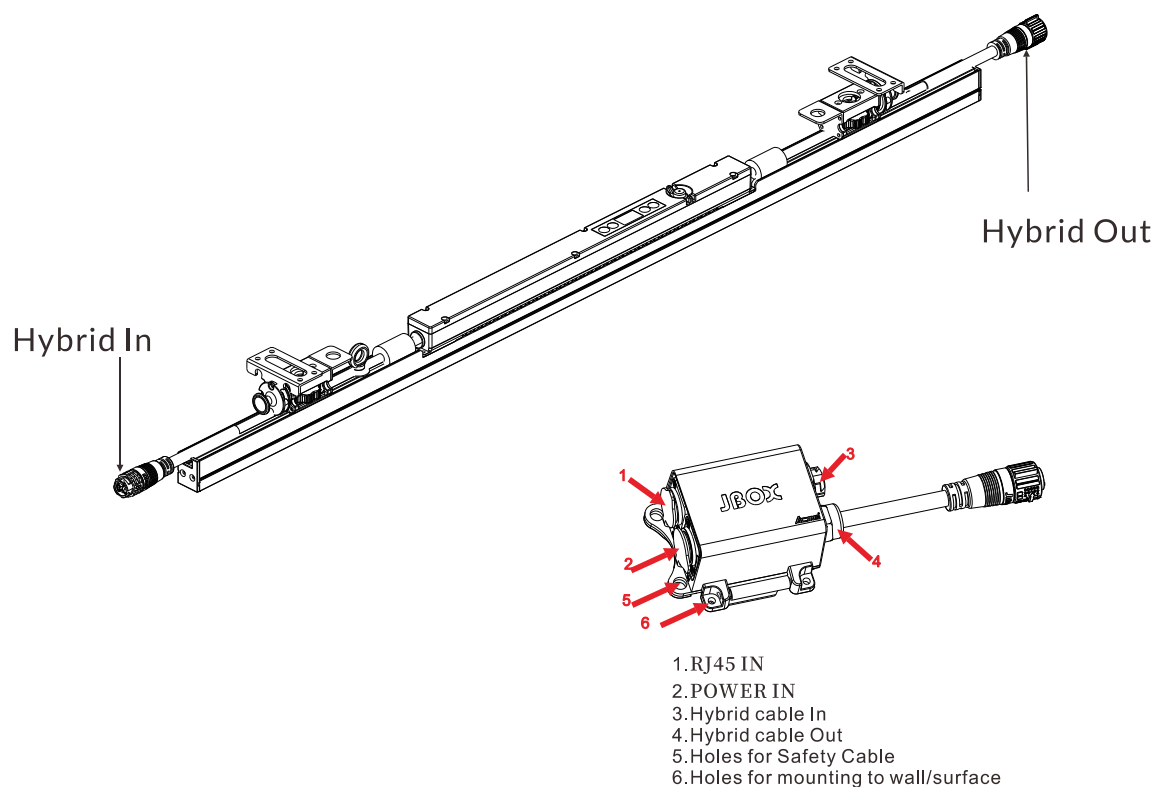
Connection Steps:

1. Connect the mains power cable to the POWER IN port on the JBOX controller.
2. Connect the lighting console (or network switch) to the RJ45 port on the JBOX.
3. Connect the Hybrid Power/Data Cable Output of the JBOX to the Hybrid Power/Data Cable Input of the first fixture.
4. Connect the Hybrid Power/Data Cable Output of each fixture to the Hybrid Power/Data Cable Input of the next fixture in the chain. Continue this daisy-chain connection until all fixtures are connected.

Connection Limits:

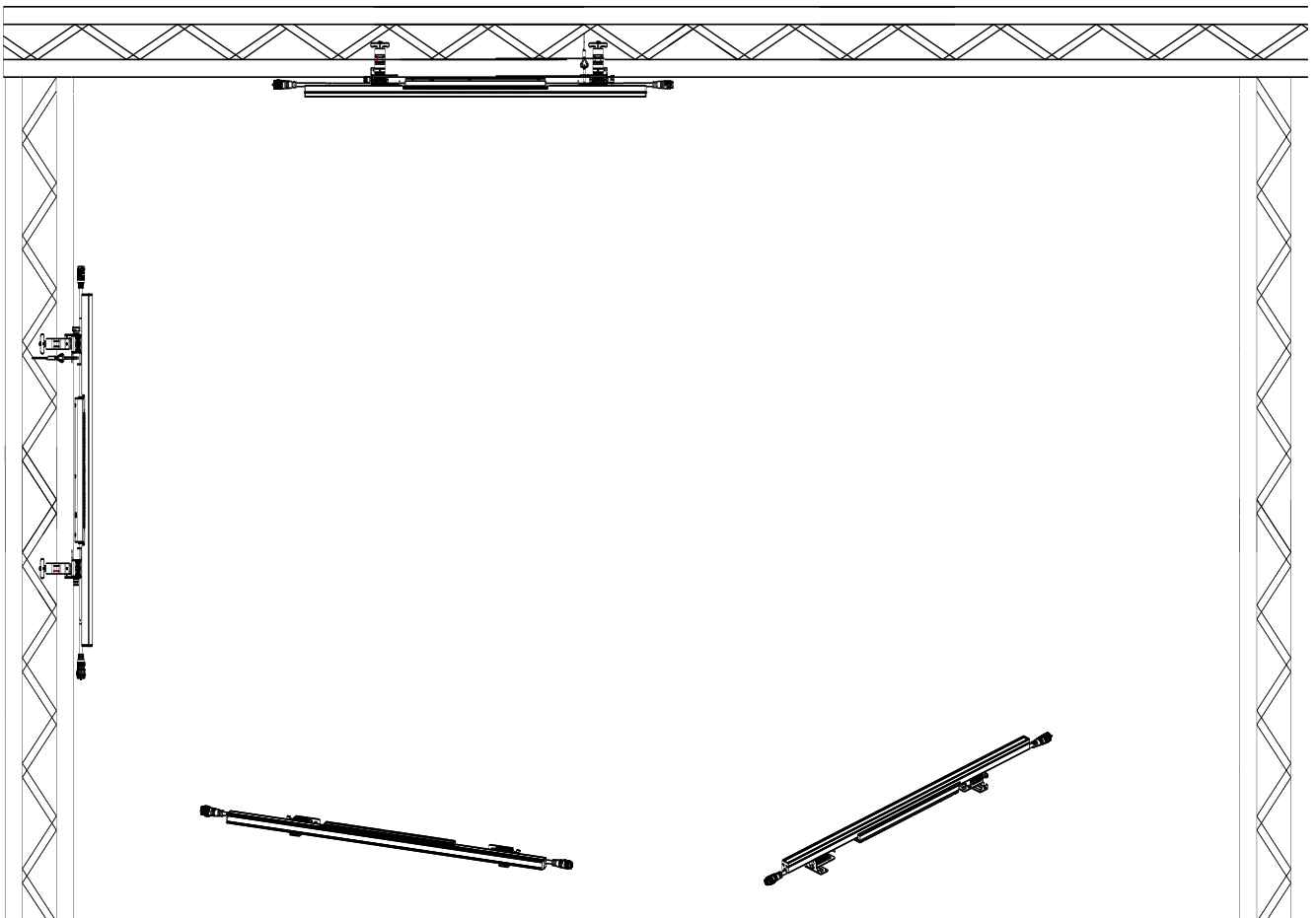
When powered at **100 V AC**, a single JBOX can control a maximum of **16 fixtures**.

When powered at **240 V AC**, a single JBOX can control a maximum of **32 fixtures**.



05/ Fixture Installation

- ▶ DO install and operate by qualified operator. Fixture(s) should be installed in areas outside walking paths, seating areas, or away from areas where unauthorized personnel might reach the fixture by hand. NEVER stand directly below the fixture(s) when rigging, removing or servicing.
- ▶ Always ensure that the unit is firmly fixed to avoid vibration and slipping off during operation. Ensure that the trussing or area of installation must be able to hold 10 times the weight without any deformation. Always attach a safety cable that can hold at least 12 times the weight of the fixture whenever installing this fixture in a suspended environment to ensure that the fixture will not fall if the clamp fails.
- ▶ This fixture is fully operational in three different mounting positions: hanging on trussing, mounted sideways on trussing, or standing on the floor. Always use and install a safety cable as a safety measure to prevent accidental damage and/or injury in the event the clamp fails.



06/ Operation

6.1 Control Menu

- ▶ To access the control menus, press the [MENU] button.
- ▶ Navigate the menu structure, using the [ENTER], [▲ UP] and [▼ DOWN] buttons.
- ▶ To select a menu option or to confirm a selection, press the [ENTER] button.
- ▶ To return to a higher level in the menu structure without making a change, press the [MENU] button, or wait 30 seconds.

The main functions are shown below:

MAIN MENU	SUBMENU	CHOICES/VALUES		
	Device ID	1-99999		
DMX Settings	DMX Address	1-512	(Default=1)	
	DMX Channel Mode	Mode1(249)		
		Mode2(129)		
		Mode3(89)		
		Mode4(69)		
		Mode5(49)		
		Mode6(39)		
		Mode7(29)		
		Mode8(24)		
		Mode9(19)		
		Mode10(14)		
		Mode11(244)		
	No DMX Status	Hold		
		Blackout		
		Manual		
	View DMX Value			
	Connect Option	Auto		
		Art-Net		
		sACN		
	Network	IP Address	Default 1: 002.xxx.xxx.xxx	
Default 2: 010.xxx.xxx.xxx				
Manual: xxx.xxx.xxx.xxx				
	Subnet	xxx.xxx.xxx.xxx		

MAIN MENU	SUBMENU	CHOICES/VALUES			
		Mask			
	Art-Net Settings	Net			
		Sub-Net			
		Universe			
	sACN Settings	Universe			
		Priority			
Fixture Settings	Dimmer Curve	Linear			
		Square Law			
		Inv SQ Law			
		S Curve			
	Dimmer Speed	Fast			
		Smooth			
	White Balance	Red All	125-255		
		Green All	125-255		
		Blue All	125-255		
		Red 1	125-255		
		Green 1	125-255		
		Blue 1	125-255		
		Red 2	125-255		
		Green 2	125-255		
		Blue 2	125-255		
			125-255		
		Red 48	125-255		
		Green 48	125-255		
		Blue 48	125-255		
	Invert Pixel Order	No			
		Yes			
Display Settings	Display Invert	No			
		Yes			
	Temperature Unit	°C			
		°F			
	Language	English			
Fixture Test	Auto Test	Single			
		Cycle			
	Manual Test	Mode 1		Mode 2	
		Clear	No/Yes	Clear	No/Yes

MAIN MENU	SUBMENU		CHOICES/VALUES		
		Dimmer	0-255		
		Strobe	0-255		
		Crossfade	0-255		
		CTO	0-255		
		Color Macro	0-255		
		Effect Macro	0-255		
		EffectMacro Speed	0-255		
		Red	0-255		
		Green	0-255		
		Blue	0-255		
		WW	0-255		
		CW	0-255		
		Fixture Information	Use Hour		Fixture
Light Source	Total				
	Light On				
	Reset				Password=050
Temperature				Current	Max temp
			Light Source		
Firmware Version					
RDM UID					
Error Logs			Fixture Errors		
			Reset Error Log	No	
		Yes		Password=050	
Special Function	Network Dev Config	Duplicate	No		
			Yes		
		Increase	No		
			Yes		
	Factory Settings	No			
		Yes			

DMX Settings

Enter the control menu and select **DMX Settings**, press ENTER. Use the UP/DOWN button to select **Device ID**, **DMX Address**, **DMX Channel Mode**, **No DMX Status**, **View DMX Value**, **Connect Option**, **Network**, **Art-Net Settings** or **sACN Settings**.

Device ID

The **Device ID** is a unique identifier for the fixture. It is used for recognition by lighting control systems and RDM devices, enabling differentiation, addressing, group management and remote configuration of multiple fixtures.

Select **Device ID**, press ENTER.

Use UP/DOWN button to select **1-99999**, confirm your selection with ENTER.

To exit the menu, press MENU, or wait 30 seconds.

DMX Address

Select **DMX Address**, press ENTER.

Use UP/DOWN button to select an address, confirm your selection with ENTER.

CHANNEL MODE	DMX ADDRESS
Mode1(249)	1-264
Mode2(129)	1-384
Mode3(89)	1-424
Mode4(69)	1-444
Mode5(49)	1-464
Mode6(39)	1-474
Mode7(29)	1-484
Mode8(24)	1-489
Mode9(19)	1-494
Mode10(14)	1-499
Mode11(244)	1-269

To exit the menu, press MENU, or wait 30 seconds.

DMX Channel Mode

Select **DMX Channel Mode**, press ENTER.

Use UP/DOWN button to select between

Mode1(249),Mode2(129),Mode3(89),Mode4(69),Mode5(49),Mode6(39),Mode7(29),Mode8(24),Mode9(19),Mode10(14)andMode11(244) confirm your selection with ENTER.

To exit the menu. press MENU. or wait 30 seconds.

No DMX Status

Select **No DMX Status**, press ENTER.

Use UP/DOWN button to select one of the following status:

Blackout (Fixture blacks out if DMX signal stops)

Hold (The device continues to operate in the current mode with the last active DMX values until the signal returns)

Manual (The device accepts the DMX value stored in the 'Manual Test' menu)

Confirm your selection with ENTER.

To exit the menu, press MENU, or wait 30 seconds.

View DMX Value

Select **View DMX Value**, press ENTER.

Use UP/DOWN button to select the desired DMX channel, for which the value is to be displayed.

To exit the menu, press MENU, or wait 30 seconds.

Connect Option

Select **Connect Option**, press ENTER.

Use UP/DOWN button to select **Auto, DMX, Art-Net** or **sACN**, confirm your selection with ENTER.

To exit the menu, press MENU, or wait 30 seconds.

Network

Select **Network**, press ENTER.

Use UP/DOWN button to select **IP Address** or **Subnet Mask**, confirm your selection with ENTER.

To exit the menu, press MENU, or wait 30 seconds.

Art-Net Settings

Select **Art-Net Settings**, press ENTER.

Use UP/DOWN button to select **Net**, **Sub-Net** or **Universe**, confirm your selection with ENTER.

To exit the menu, press MENU, or wait 30 seconds.

sACN Settings

Select **sACN Settings**, press ENTER.

Use UP/DOWN button to select **Universe** or **Priority**, confirm your selection with ENTER.

To exit the menu, press MENU, or wait 30 seconds.

Fixture Settings

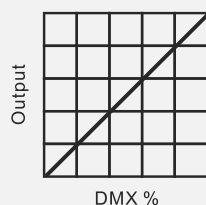
Enter the control menu and select **Fixture Settings**, press ENTER. Use the UP/DOWN button to select **Dimmer Curve**, **Dimmer Speed**, **White Balance** or **Invert Pixel Order**.

Dimmer Curve

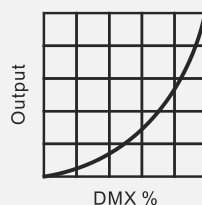
Select **Dimmer Curve**, press ENTER.

Use UP/DOWN button to select **Linear**, **Square Law**, **Inv SQ Law** or **S Curve**, confirm your selection with ENTER.

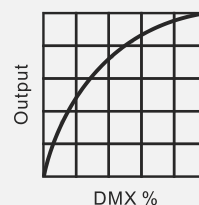
Dimmer Modes



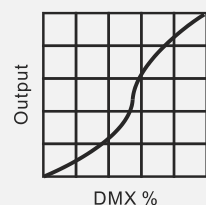
Optically Linear



Square Law



Inverse Square Law



S-curve

To exit the menu, press MENU, or wait 30 seconds.

Dimmer Speed

Select **Dimmer Speed**, press ENTER.

Use UP/DOWN button to select **Fast** or **Smooth**, confirm your selection with ENTER.

To exit the menu, press MENU, or wait 30 seconds.

White Balance

Select **White Balance**, press ENTER.

Use UP/DOWN button to select **Red All**, **Green All**, **Blue All** , confirm your selection with ENTER.

To exit the menu, press MENU, or wait 30 seconds.

Invert Pixel Order

Select **Invert Pixel Order**, press ENTER.

Use UP/DOWN button to select **No** or **Yes**, confirm your selection with ENTER.

To exit the menu, press MENU, or wait 30 seconds.

Display Settings

Enter the control menu and select **Display Settings**, press ENTER. Use the UP/DOWN button to select **Display Invert** or **Temperature Unit**.

Display Invert

Select **Display Invert**, press ENTER.

Use UP/DOWN button to select **No** (display normal) or **Yes** (display inverted), confirm your selection with ENTER.

To exit the menu, press MENU, or wait 30 seconds.

Temperature Unit

Select **Temperature Unit**, press ENTER.

Use UP/DOWN button to select **°C** or **°F**, confirm your selection with ENTER.

To exit the menu, press MENU, or wait 30 seconds.

Fixture Test

Enter the control menu and select **Fixture test**, press ENTER. Use the UP/DOWN button to select **Auto Test** or **Manual Test**.

Auto Test

Select **Auto Test**, press ENTER.

The device immediately performs an automatic self-test.

To end the automatic self-test and exit the menu, press MENU, or wait 30 seconds.

Manual Test

Select **Manual Test**, press ENTER.

Use UP/DOWN button to select the channel for which the manual test is to be performed, confirm your selection with ENTER.

Use UP/DOWN button to select a value, confirm your selection with ENTER.

To exit the menu, press MENU, or wait 30 seconds.

(The device returns to its original DMX state after the manual test. The test values are saved automatically when the device is switched off.)

Fixture Information

Enter the control menu and select **Information**, press ENTER. Use the UP/DOWN button to select **Use Hour**, **Temperature**, **Firmware Version**, **RDM UID**, **Firmware Version**, **Error Logs**.

Use Hour

Select **Use Hour**, press ENTER.

Use UP/DOWN button to select **Total** (total time) or **Light On** (current switch-on time), confirm your selection with ENTER.

The total time or current switch-on time is displayed.

Use UP/DOWN button to select **Reset**, confirm your selection with ENTER.

Use UP/DOWN button to set the password 050, confirm your selection with ENTER. The LED operating hours is reset.

To exit the menu, press MENU, or wait 30 seconds.

Temperature

Select **Temperature**, press ENTER.

The device temperature is displayed.

To exit the menu, press MENU, or wait 30 seconds.

Firmware Version

Select **Firmware Version**, press ENTER.

The firmware version is displayed.

To exit the menu, press MENU, or wait 30 seconds.

RDM UID

Select **RDM UID**, press ENTER.

The RDM UID is displayed.

To exit the menu, press MENU, or wait 30 seconds.

Firmware Version

Select **Firmware Version**, press ENTER.

The firmware version is displayed.

To exit the menu, press MENU, or wait 30 seconds.

Error Logs

Select **Error Logs**, press ENTER.

Use UP/DOWN button to select **Fixture Errors**, confirm your selection with ENTER.

The error list is displayed.

Use UP/DOWN button to select **Reset Error Log**, confirm your selection with ENTER.

If you wish to reset the relevant error logs, select **Yes**. If you do not wish to reset anything, select **No**. Confirm your selection with ENTER.

If you select **Yes**, use UP/DOWN button to set the password 050, confirm your selection with ENTER. The relevant error logs are reset.

To exit the menu, press MENU, or wait 30 seconds.

Special Function

Enter the control menu and select **Special Function**, press ENTER. Use the UP/DOWN button to select **Network Dev Config.**, **Factory Settings**.

Network Dev Config

Select "**Network Dev Configuration**", press the ENTER button to confirm, you can view **Duplicate** and **Increase**, press the ENTER button to save.

Select: **Duplicate**, press the ENTER button to confirm.

Use the UP/DOWN buttons to select YES or NO, selecting YES will copy the unit's own setting parameters to the fixtures behind via network, press the ENTER button to save.

Select: **Increase**, press the ENTER button to confirm.

Use the UP/DOWN buttons to select YES or NO, selecting YES will synchronize the unit's own "Channel Mode" and "Connection Options" to the fixtures behind via network, "Address Code" "Art-Net Universe" "sACN Universe" will increment according to the algorithm formula based on the Channel Mode length, press the ENTER button to save.

Press the MENU button to return to the previous menu, or wait 30 seconds to automatically exit the menu mode.

Factory Settings

Select **Factory Settings**, press ENTER.

If you wish to reset the device to the factory settings, select **Yes**. If you do not wish to reset anything, select **No**. Confirm your selection with ENTER.

To exit the menu, press MENU, or wait 30 seconds.

RDM functions: Certain menus of the device and functions can be called up via the RDM protocol.

The parameter IDs are implemented as follows for different commands:

Parameter ID	Command 'Discovery'	Command 'Set'	Command 'Get'
DISC_UNIQUE_BRANCH	✓		
DISC_MUTE	✓		
DISC_UN_MUTE	✓		
SUPPORTED_PARAMETERS			✓
PARAMETER_DESCRIPTION			✓
DEVICE_INFO			✓
DEVICE_MODEL_DESCRIPTION			✓
MANUFACTURER_LABEL			✓
DEVICE_LABEL		✓	✓
FACTORY_DEFAULTS		✓	✓
SOFTWARE_VERSION_LABEL			✓
BOOT_SOFTWARE_VERSION_ID			✓
BOOT_SOFTWARE_VERSION_LABEL			✓
DMX_PERSONALITY		✓	✓
DMX_PERSONALITY_DESCRIPTION			✓
DMX_START_ADDRESS		✓	✓
SLOT_INFO			✓
SLOT_DESCRIPTION			✓
SENSOR_DEFINITION			✓
SENSOR_VALUE			✓
CURVE		✓	✓
CURVE_DESCRIPTION			✓
DEVICE_HOURS			✓
LAMP_HOURS			✓
IDENTIFY_DEVICE		✓	✓
RESET_DEVICE		✓	✓

✓ -Command implemented for the respective parameter ID

Manufacturer-specific RDM Parameter IDs

Parameter ID	Command 'Discovery'	Command 'Set'	Command 'get'	Note
DMX_STATUS		√	√	0:Blackout 1:Hold 2:Manual
INVERT_PIXEL_ORDER		√	√	0:No 1:Yes
DIMMER_SPEED		√	√	0:Fast 1:Smooth
WHITE_BALANCE		√	√	
ERROR_LOG			√	
RDM_DEVICE_ID		√	√	1-99999
RDM_ARTNET_UNIVERSE		√	√	0-32767
RDM_SACN_UNIVERSE		√	√	1-32000
RDM_SACN_PRIORITY		√	√	0-200
IPV4_CURRENT_ADDRESS		√	√	
IPV4_STATIC_ADDRESS		√	√	

√ -Command implemented for the respective parameter ID

6.2 Home Position Adjustment

- ▶ To access the control menus, press the [MENU] button.
- ▶ To access the offset menus, long-press the [ENTER] button.
- ▶ Navigate the offset menus, using the [ENTER], [▲ UP] and [▼ DOWN] buttons.
- ▶ To select a menu option or to confirm a selection, press the [ENTER] button.
- ▶ To return to a higher level in the menu structure without making a change, press the [MENU] button, or wait 30 seconds.

OFFSET MENU	VALUES
Frequency(Hz)	1072~1327
Red	125~255
Green	125~255
Blue	125~255
WW	125~255
CW	125~255

Red 1	125~255
Green 1	125~255
Blue 1	125~255
WW 1	125~255
CW 1	125~255
Red 2	125~255
Green 2	125~255
Blue 2	125~255
WW 2	125~255
CW 2	125~255
...	125~255
Red 48	125~255
Green 48	125~255
Blue 48	125~255
WW 48	125~255
CW 48	125~255

Frequency(Hz)

Select **Frequency(Hz)**, press ENTER.

Use UP/DOWN button to select a value between 1072 and 1327, confirm your selection with ENTER.

To exit the offset menu, press MENU, or wait 30 seconds.

Red

Select **Red** , press ENTER.

Use UP/DOWN button to select a value between 125 and 255, confirm your selection with ENTER.

To exit the offset menu, press MENU, or wait 30 seconds.

Green

Select **Green** , press ENTER.

Use UP/DOWN button to select a value between 125 and 255, confirm your selection with ENTER.

To exit the offset menu, press MENU, or wait 30 seconds.

Blue

Select **Blue** , press ENTER.

Use UP/DOWN button to select a value between 125 and 255, confirm your selection with ENTER.

To exit the offset menu, press MENU, or wait 30 seconds.

WW

Select **WW**, press ENTER.

Use UP/DOWN button to select a value between 125 and 255, confirm your selection with ENTER.

To exit the offset menu, press MENU, or wait 30 seconds.

CW

Select **CW**, press ENTER.

Use UP/DOWN button to select a value between 125 and 255, confirm your selection with ENTER.

To exit the offset menu, press MENU, or wait 30 seconds.

RED 1

Select **RED 1**, press ENTER.

Use UP/DOWN button to select a value between 125 and 255, confirm your selection with ENTER.

To exit the offset menu, press MENU, or wait 30 seconds.

GREEN 1

Select **GREEN 1**, press ENTER.

Use UP/DOWN button to select a value between 125 and 255, confirm your selection with ENTER.

To exit the offset menu, press MENU, or wait 30 seconds.

BLUE 1

Select **BLUE 1**, press ENTER.

Use UP/DOWN button to select a value between 125 and 255, confirm your selection with ENTER.

To exit the offset menu, press MENU, or wait 30 seconds.

WW 1

Select **WW 1**, press ENTER.

Use UP/DOWN button to select a value between 125 and 255, confirm your selection with ENTER.

To exit the offset menu, press MENU, or wait 30 seconds.

CW 1

Select **CW 1**, press ENTER.

Use UP/DOWN button to select a value between 125 and 255, confirm your selection with ENTER.

To exit the offset menu, press MENU, or wait 30 seconds.

RED 2

Select **RED 2**, press ENTER.

Use UP/DOWN button to select a value between 125 and 255, confirm your selection with ENTER.

To exit the offset menu, press MENU, or wait 30 seconds.

GREEN 2

Select **GREEN 2**, press ENTER.

Use UP/DOWN button to select a value between 125 and 255, confirm your selection with ENTER.

To exit the offset menu, press MENU, or wait 30 seconds.

BLUE 2

Select **BLUE 2**, press ENTER.

Use UP/DOWN button to select a value between 125 and 255, confirm your selection with ENTER.

To exit the offset menu, press MENU, or wait 30 seconds.

WW 2

Select **WW 2**, press ENTER.

Use UP/DOWN button to select a value between 125 and 255, confirm your selection with ENTER.

To exit the offset menu, press MENU, or wait 30 seconds.

CW 2

Select **CW 2**, press ENTER.

Use UP/DOWN button to select a value between 125 and 255, confirm your selection with ENTER.

To exit the offset menu, press MENU, or wait 30 seconds.

.....

RED 48

Select **RED 48**, press ENTER.

Use UP/DOWN button to select a value between 125 and 255, confirm your selection with ENTER.

To exit the offset menu, press MENU, or wait 30 seconds.

GREEN 48

Select **GREEN 48**, press ENTER.

Use UP/DOWN button to select a value between 125 and 255, confirm your selection with ENTER.

To exit the offset menu, press MENU, or wait 30 seconds.

BLUE 48

Select **BLUE 48**, press ENTER.

Use UP/DOWN button to select a value between 125 and 255, confirm your selection with ENTER.

To exit the offset menu, press MENU, or wait 30 seconds.

WW 48

Select **WW 48**, press ENTER.

Use UP/DOWN button to select a value between 125 and 255, confirm your selection with ENTER.

To exit the offset menu, press MENU, or wait 30 seconds.

CW 48

Select **CW 48**, press ENTER.

Use UP/DOWN button to select a value between 125 and 255, confirm your selection with ENTER.

To exit the offset menu, press MENU, or wait 30 seconds.

07/ Configuring the Device for DMX Control

7.1 Address Setting

All fixtures should be given a DMX starting address when operating with a DMX controller, in order to ensure that the correct fixture responds to the correct control signal. Incorrect settings will result in unpredictable responses from the lighting controller.

You can set the same starting address for all fixtures or a group of fixtures, or set different addresses for each individual fixture.

Setting all fixtures to the same DMX address will cause all fixtures to react in the same way. In this case, please note that changing the settings of one channel will affect all the fixtures simultaneously.

If you set each fixture to a different DMX address, each unit will “listen” starting at the channel number you have set, based on the quantity of DMX channels of each fixture. That means changing the settings of one channel will only affect the selected fixture.

For example, if the first fixture is set to 249 ch DMX mode with a start DMX address of 1, the following fixture in the DMX chain should then be set to a DMX address of 250. As the first fixture uses all the first 249 DMX channels, the next available channel is 250 ($249+1=250 >> 250$).

See the chart below for more details:

Channel Mode	Unit 1 Address	Unit 2 Address	Unit 3 Address	Unit 4 Address	Unit xxx Address
249 Channel	1	250	499		
129 Channel	1	130	259	388	
89 Channel	1	90	179	268	
69 Channel	1	70	139	208	
49 Channel	1	50	99	148	
39 Channel	1	40	79	118	
29 Channel	1	30	59	88	

24 Channel	1	25	49	73	
19 Channel	1	20	39	58	
14 Channel	1	15	29	43	
244 Channel	1	245	489		

7.2 DMX Protocol

CHANNEL						VALUE	FUNCTION
249ch	129ch	89ch	69ch	49ch	39ch		
1	1	1	1	1	1	000-255	DIMMER 0%→100%
2	2	2	2	2	2	000-255	DIMMER FINE 0%→100%
3	3	3	3	3	3	000-007 008-015 016-131 132-139 140-181 182-189 190-231 232-239 240-247 248-255	STROBE Close Open Strobe Slow->Fast Open Fast Open Slow Close Open Fast Close Slow Open Open Random Strobe Slow >Fast Open
4	4	4	4	4	4	000-255	CROSS FADE 0%→100%
5	5	5	5	5	5	000 001- 004 005- 009 010- 013 014- 018 019- 022 023- 027 028- 031 032- 036 037- 040 041- 045 046- 049 050- 054 055- 058 059- 063 064- 067	CTO NULL 8000K 7900K 7800K 7700K 7600K 7500K 7400K 7300K 7200K 7100K 7000K 6900K 6800K 6700K 6600K

						068- 072	6500K
						073- 076	6400K
						077- 081	6300K
						082- 085	6200K
						086- 090	6100K
						091- 094	6000K
						095- 099	5900K
						100- 103	5800K
						104- 108	5700K
						109- 112	5600K
						113- 117	5500K
						118- 121	5400K
						122- 126	5300K
						127- 130	5200K
						131- 135	5100K
						136- 139	5000K
						140- 144	4900K
						145- 148	4800K
						149- 153	4700K
						154- 157	4600K
						158- 162	4500K
						163- 166	4400K
						167- 171	4300K
						172- 175	4200K
						176- 180	4100K
						181- 184	4000K
						185- 189	3900K
						190- 193	3800K
						194- 198	3700K
						199- 202	3600K
						203- 207	3500K
						208- 211	3400K
						212- 216	3300K
						217- 220	3200K
						221- 225	3100K
						226- 229	3000K
						230- 234	2900K
						235- 238	2800K
						239- 243	2700K
						244- 247	2600K
						248- 255	2500K
6	6	6	6	6	6	000-007	COLOR MACRO
						008-009	Open
						010-011	010 Medium Yellow
						012-013	019 Fire
						014-015	021 Gold Amber
						016-017	025 Sunset Red
						018-019	036 Medium Pink
						020-021	052 Light Lavender
						022-023	058 Lavender
						024-025	068 Sky Blue
						026-027	079 Just Blue
						028-029	088 Lime Green
							089 Moss Green

						030-031 032-033 034-035 036-037 038-039 040-041 042-043 044-045 046-047 048-049 050-051 052-053 054-055 056-057 058-059 060-061 062-063 064-065 066-067 068-069 070-071 072-073 074-075 076-077 078-079 080-081 082-083 084-085 086-087 088-089 090-091 092-093 094-095 096-097 098-099 100-101 102-103 104-105 106-107 108-109 110-255	090 Dark Yellow Green 100 Spring Yellow 101 Yellow 102 Light Amber 103 Straw 104 Deep Amber 105 Orange 111 Dark Pink 115 Peacock Blue 116 Medium Blue-Green 117 Steel Blue 118 Light Blue 120 Deep Blue 121 LEE Green 122 Fern Green 124 Dark Green 126 Mauve 128 Bright Pink 132 Medium Blue 135 Deep Golden Amber 136 Pale Lavender 137 Special Lavender 138 Pale Green 139 Primary Green 141 Bright Blue 147 Apricot 152 Pale Gold 157 Pink 162 Bastard Amber 164 Flame Red 165 Daylight Blue 170 Deep Lavender 181 Congo Blue 194 Surprise Pink 197 Alice Blue 201 Full C.T. Blue 202 Half C.T. Blue 353 Lighter Blue 778 Millennium Gold Amber NULL
7	7	7	7	7	7	000-007 008-015 016-023 024-031 032-039 040-047 048-055 056-063 064-071 072-079 080-087 088-095	EFFECT MACRO NULL EFFECT 1 EFFECT 2 EFFECT 3 EFFECT 4 EFFECT 5 EFFECT 6 EFFECT 7 EFFECT 8 EFFECT 9 EFFECT 10 EFFECT 11

						096-103 104-111 112-119 120-127 128-135 136-143 144-151 152-159 160-167 168-175 176-183 184-191 192-199 200-207 208-215 216-223 224-231 232-239 240-247 248-255	EFFECT 12 EFFECT 13 EFFECT 14 EFFECT 15 EFFECT 16 EFFECT 17 EFFECT 18 EFFECT 19 EFFECT 20 EFFECT 21 EFFECT 22 EFFECT 23 EFFECT 24 EFFECT 25 EFFECT 26 EFFECT 27 EFFECT 28 EFFECT 29 EFFECT 30 EFFECT 31
8	8	8	8	8	8	000 001-127 128-255	EFFECT MACRO SPEED Stop Slow to fast without fade Slow to fast With fade
9	9	9	9	9	9	000-029 030-039 040-049 050-059 060-069 070-079 080-089 090-099 100-109 110-119 120-159 160-161 162-163 164-209 210-219 220-229 230-255	FUNCTION No Function Dimmer Curve Linear Dimmer Curve Square Law Dimmer Curve Inv Square Law Dimmer Curve S No Function No Function No Function No Function No Function Invert Pixel Order : Yes Invert Pixel Order : No No Function Dimmer Speed Fast Dimmer Speed Smooth No Function
10	10	10	10	10	10	000-255	RED 1 0%→100%
11	11	11	11	11	11	000-255	GREEN 1 0%→100%
12	12	12	12	12	12	000-255	BLUE 1 0%→100%
13	13	13	13	13	13	000-255	WW 1 0%→100%
14	14	14	14	14	14	000-255	CW 2 0%→100%

15	15	15	15	15	15	000-255	RED 2 0%→100%
16	16	16	16	16	16	000-255	GREEN 2 0%→100%
17	17	17	17	17	17	000-255	BLUE 2 0%→100%
18	18	18	18	18	18	000-255	WW 2 0%→100%
19	19	19	19	19	19	000-255	CW 2 0%→100%
20	20	20	20	20	20	000-255	RED 3 0%→100%
21	21	21	21	21	21	000-255	GREEN 3 0%→100%
22	22	22	22	22	22	000-255	BLUE 3 0%→100%
23	23	23	23	23	23	000-255	WW 3 0%→100%
24	24	24	24	24	24	000-255	CW 3 0%→100%
25	25	25	25	25	25	000-255	RED 4 0%→100%
26	26	26	26	26	26	000-255	GREEN 4 0%→100%
27	27	27	27	27	27	000-255	Blue 4 0%→100%
28	28	28	28	28	28	000-255	WW 4 0%→100%
29	29	29	29	29	29	000-255	CW 4 0%→100%
30	30	30	30	30	30	000-255	Red 5 0%→100%
31	31	31	31	31	31	000-255	Green 5 0%→100%
32	32	32	32	32	32	000-255	Blue 5 0%→100%
33	33	33	33	33	33	000-255	WW 5 0%→100%
34	34	34	34	34	34	000-255	CW 5 0%→100%
35	35	35	35	35	35	000-255	Red 6 0%→100%
36	36	36	36	36	36	000-255	Green 6 0%→100%
37	37	37	37	37	37	000-255	Blue 6 0%→100%
38	38	38	38	38	38	000-255	WW 6 0%→100%
39	39	39	39	39	39	000-255	CW 6 0%→100%

40	40	40	40	40		000-255	Red 7 0%→100%
41	41	41	41	41		000-255	Green 7 0%→100%
42	42	42	42	42		000-255	Blue 7 0%→100%
43	43	43	43	43		000-255	WW 7 0%→100%
44	44	44	44	44		000-255	CW 7 0%→100%
45	45	45	45	45		000-255	Red 8 0%→100%
46	46	46	46	46		000-255	Green 8 0%→100%
47	47	47	47	47		000-255	Blue 8 0%→100%
48	48	48	48	48		000-255	WW 8 0%→100%
49	49	49	49	49		000-255	CW 8 0%→100%
50	50	50	50			000-255	Red 9 0%→100%
51	51	51	51			000-255	Green 9 0%→100%
52	52	52	52			000-255	Blue 9 0%→100%
53	53	53	53			000-255	WW 9 0%→100%
54	54	54	54			000-255	CW 9 0%→100%
55	55	55	55			000-255	Red 10 0%→100%
56	56	56	56			000-255	Green 10 0%→100%
57	57	57	57			000-255	Blue 10 0%→100%
58	58	58	58			000-255	WW 10 0%→100%
59	59	59	59			000-255	CW 10 0%→100%
60	60	60	60			000-255	Red 11 0%→100%
61	61	61	61			000-255	Green 11 0%→100%
62	62	62	62			000-255	Blue 11 0%→100%
63	63	63	63			000-255	WW 11 0%→100%
64	64	64	64			000-255	CW 11 0%→100%

65	65	65	65			000-255	Red 12 0%→100%
66	66	66	66			000-255	Green 12 0%→100%
67	67	67	67			000-255	Blue 12 0%→100%
68	68	68	68			000-255	WW 12 0%→100%
69	69	69	69			000-255	CW 12 0%→100%
70	70	70				000-255	Red 13 0%→100%
71	71	71				000-255	Green 13 0%→100%
72	72	72				000-255	Blue 13 0%→100%
73	73	73				000-255	WW 13 0%→100%
74	74	74				000-255	CW 13 0%→100%
75	75	75				000-255	Red 14 0%→100%
76	76	76				000-255	Green 14 0%→100%
77	77	77				000-255	Blue 14 0%→100%
78	78	78				000-255	WW 14 0%→100%
79	79	79				000-255	CW 14 0%→100%
80	80	80				000-255	Red 15 0%→100%
81	81	81				000-255	Green 15 0%→100%
82	82	82				000-255	Blue 15 0%→100%
83	83	83				000-255	WW 15 0%→100%
84	84	84				000-255	CW 15 0%→100%
85	85	85				000-255	Red 16 0%→100%
86	86	86				000-255	Green 16 0%→100%
87	87	87				000-255	Blue 16 0%→100%
88	88	88				000-255	WW 16 0%→100%
89	89	89				000-255	CW 16 0%→100%

90	90					000-255	Red 17 0%→100%
91	91					000-255	Green 17 0%→100%
92	92					000-255	Blue 17 0%→100%
93	93					000-255	WW 17 0%→100%
94	94					000-255	CW 17 0%→100%
95	95					000-255	Red 18 0%→100%
96	96					000-255	Green 18 0%→100%
97	97					000-255	Blue 18 0%→100%
98	98					000-255	WW 18 0%→100%
99	99					000-255	CW 18 0%→100%
100	100					000-255	Red 19 0%→100%
101	101					000-255	Green 19 0%→100%
102	102					000-255	Blue 19 0%→100%
103	103					000-255	WW 19 0%→100%
104	104					000-255	CW 19 0%→100%
105	105					000-255	Red 20 0%→100%
106	106					000-255	Green 20 0%→100%
107	107					000-255	Blue 20 0%→100%
108	108					000-255	WW 20 0%→100%
109	109					000-255	CW 20 0%→100%
110	110					000-255	Red 21 0%→100%
111	111					000-255	Green 21 0%→100%
112	112					000-255	Blue 21 0%→100%
113	113					000-255	WW 21 0%→100%
114	114					000-255	CW 21 0%→100%

115	115					000-255	Red 22 0%→100%
116	116					000-255	Green 22 0%→100%
117	117					000-255	Blue 22 0%→100%
118	118					000-255	WW 22 0%→100%
119	119					000-255	CW 22 0%→100%
120	120					000-255	Red 23 0%→100%
121	121					000-255	Green 23 0%→100%
122	122					000-255	Blue 23 0%→100%
123	123					000-255	WW 23 0%→100%
124	124					000-255	CW 23 0%→100%
125	125					000-255	Red 24 0%→100%
126	126					000-255	Green 24 0%→100%
127	127					000-255	Blue 24 0%→100%
128	128					000-255	WW 24 0%→100%
129	129					000-255	CW 24 0%→100%
239						000-255	
240						000-255	Red 47 0%→100%
241						000-255	Green 47 0%→100%
242						000-255	Blue 47 0%→100%
243						000-255	WW 47 0%→100%
244						000-255	CW 47 0%→100%
245						000-255	Red 48 0%→100%
246						000-255	Green 48 0%→100%
247						000-255	Blue 48 0%→100%
248						000-255	WW 48 0%→100%

249						000-255	CW 48 0%→100%
-----	--	--	--	--	--	---------	-------------------------

CHANNEL					VALUE	FUNCTION
14ch	19ch	24ch	29ch	244ch		
1	1	1	1	1	000-255	DIMMER 0%→100%
2	2	2	2	2	000-255	DIMMER FINE 0%→100%
3	3	3	3	3	000-007 008-015 016-131 132-139 140-181 182-189 190-231 232-239 240-247 248-255	STROBE Close Open Strobe Slow->Fast Open Fast Open Slow Close Open Fast Close Slow Open Open Random Strobe Slow >Fast Open
4	4	4	4		000-255	CROSS FADE 0%→100%
5	5	5	5		000 001- 004 005- 009 010- 013 014- 018 019- 022 023- 027 028- 031 032- 036 037- 040 041- 045 046- 049 050- 054 055- 058 059- 063 064- 067 068- 072 073- 076 077- 081 082- 085 086- 090 091- 094 095- 099 100- 103 104- 108 109- 112 113- 117 118- 121	CTO NULL 8000K 7900K 7800K 7700K 7600K 7500K 7400K 7300K 7200K 7100K 7000K 6900K 6800K 6700K 6600K 6500K 6400K 6300K 6200K 6100K 6000K 5900K 5800K 5700K 5600K 5500K 5400K

					122- 126	5300K
					127- 130	5200K
					131- 135	5100K
					136- 139	5000K
					140- 144	4900K
					145- 148	4800K
					149- 153	4700K
					154- 157	4600K
					158- 162	4500K
					163- 166	4400K
					167- 171	4300K
					172- 175	4200K
					176- 180	4100K
					181- 184	4000K
					185- 189	3900K
					190- 193	3800K
					194- 198	3700K
					199- 202	3600K
					203- 207	3500K
					208- 211	3400K
					212- 216	3300K
					217- 220	3200K
					221- 225	3100K
					226- 229	3000K
					230- 234	2900K
					235- 238	2800K
					239- 243	2700K
					244- 247	2600K
					248- 255	2500K
						COLOR MACRO
					000-007	Open
					008-009	010 Medium Yellow
					010-011	019 Fire
					012-013	021 Gold Amber
					014-015	025 Sunset Red
					016-017	036 Medium Pink
					018-019	052 Light Lavender
					020-021	058 Lavender
					022-023	068 Sky Blue
					024-025	079 Just Blue
					026-027	088 Lime Green
					028-029	089 Moss Green
					030-031	090 Dark Yellow Green
					032-033	100 Spring Yellow
					034-035	101 Yellow
					036-037	102 Light Amber
					038-039	103 Straw
					040-041	104 Deep Amber
					042-043	105 Orange
					044-045	111 Dark Pink
					046-047	115 Peacock Blue
					048-049	116 Medium Blue-Green
					050-051	117 Steel Blue
					052-053	118 Light Blue
6	6	6	6			

					054-055 056-057 058-059 060-061 062-063 064-065 066-067 068-069 070-071 072-073 074-075 076-077 078-079 080-081 082-083 084-085 086-087 088-089 090-091 092-093 094-095 096-097 098-099 100-101 102-103 104-105 106-107 108-109 110-255	120 Deep Blue 121 LEE Green 122 Fern Green 124 Dark Green 126 Mauve 128 Bright Pink 132 Medium Blue 135 Deep Golden Amber 136 Pale Lavender 137 Special Lavender 138 Pale Green 139 Primary Green 141 Bright Blue 147 Apricot 152 Pale Gold 157 Pink 162 Bastard Amber 164 Flame Red 165 Daylight Blue 170 Deep Lavender 181 Congo Blue 194 Surprise Pink 197 Alice Blue 201 Full C.T. Blue 202 Half C.T. Blue 353 Lighter Blue 778 Millennium Gold Amber NULL
7	7	7	7		000-007 008-015 016-023 024-031 032-039 040-047 048-055 056-063 064-071 072-079 080-087 088-095 096-103 104-111 112-119 120-127 128-135 136-143 144-151 152-159 160-167 168-175 176-183 184-191	EFFECT MACRO NULL EFFECT 1 EFFECT 2 EFFECT 3 EFFECT 4 EFFECT 5 EFFECT 6 EFFECT 7 EFFECT 8 EFFECT 9 EFFECT 10 EFFECT 11 EFFECT 12 EFFECT 13 EFFECT 14 EFFECT 15 EFFECT 16 EFFECT 17 EFFECT 18 EFFECT 19 EFFECT 20 EFFECT 21 EFFECT 22 EFFECT 23

					192-199 200-207 208-215 216-223 224-231 232-239 240-247 248-255	EFFECT 24 EFFECT 25 EFFECT 26 EFFECT 27 EFFECT 28 EFFECT 29 EFFECT 30 EFFECT 31
8	8	8	8		000 001-127 128-255	EFFECT MACRO SPEED stop Slow to fast without fade Slow to fast With fade
9	9	9	9	4	000-029 030-039 040-049 050-059 060-069 070-079 080-089 090-099 100-109 110-119 120-159 160-161 162-163 164-209 210-219 220-229 230-255	FUNCTION No Function Dimmer Curve Linear Dimmer Curve Square Law Dimmer Curve Inv Square Law Dimmer Curve S No Function No Function No Function No Function No Function Invert Pixel Order : Yes Invert Pixel Order : No No Function Dimmer Speed Fast Dimmer Speed Smooth No Function
10					000-255	RED 0%→100%
11					000-255	GREEN 0%→100%
12					000-255	BLUE 0%→100%
13					000-255	WW 0%→100%
14					000-255	CW 0%→100%
	10	10	10	5	000-255	RED 1 0%→100%
	11	11	11	6	000-255	GREEN 1 0%→100%
	12	12	12	7	000-255	BLUE 1 0%→100%
	13	13	13		000-255	WW 1 0%→100%
	14	14	14		000-255	CW 1 0%→100%
	15	15	15	8	000-255	RED 2 0%→100%

	16	16	16	9	000-255	Green 2 0%→100%
	17	17	17	10	000-255	Blue 2 0%→100%
	18	18	18		000-255	WW 2 0%→100%
	19	19	19		000-255	CW 2 0%→100%
		20	20	11	000-255	RED 3 0%→100%
		21	21	12	000-255	Green 3 0%→100%
		22	22	13	000-255	Blue 3 0%→100%
		23	23		000-255	WW 3 0%→100%
		24	24		000-255	CW 3 0%→100%
			25	14	000-255	Red 4 0%→100%
			26	15	000-255	Green 4 0%→100%
			27	16	000-255	Blue 4 0%→100%
			28		000-255	WW 4 0%→100%
			29		000-255	CW 4 0%→100%
				17	000-255	Red 5 0%→100%
				18	000-255	Green 5 0%→100%
				19	000-255	Blue 5 0%→100%
				...	...	...
				146	000-255	Red 48 0%→100%
				147	000-255	Green 48 0%→100%
				148	000-255	Blue 48 0%→100%
				149	000-255	WW 1 0%→100%
				150	000-255	WW 2 0%→100%
				...	...	...
				195		WW47

					000-255	0%→100%
				196	000-255	WW 48 0%→100%
				197	000-255	CW 1 0%→100%
				198	000-255	CW 2 0%→100%
				...	...	...
				243	000-255	CW47 0%→100%
				244	000-255	CW 48 0%→100%

08/ Error Information

Error codes are shown continuously in the display when the fixture fails and they will not disappear until the fixture is repaired.

Led Temp. Error

Check whether the temperature detecting board is normal.

Check whether the components of the temperature detecting board are damaged.

Check whether the lead on the temperature detecting board is installed in place or disconnected.

LED Too Hot Off

When the fixture temperature reaches 75°C, it will automatically turn off to protect the fixture.

Network Error

Check whether the network cable is correctly inserted and undamaged.

Verify that the fixture's IP address and network settings match the control system configuration.

Check whether the switch or network router is functioning properly and has sufficient available ports.

Verify that the control software's network protocol settings (e.g., Art-Net, sACN) are compatible with the fixture.

If using wireless DMX, check signal stability and receiver status. and has sufficient available ports.

Verify that the control software's network protocol settings (e.g., Art-Net, sACN) are compatible with the fixture.

LED Timeout Use

When the fixture exceed the light source rated lifetime. Please Replace the Light Source.

09/ Troubleshooting

Problem	Potential cause(s)	Remedies
Fixture does not respond or appears to be off.	No power to the fixture.	Confirm that the power is switched on and cables are plugged in.
	No output from PSU.	Replace the PSU.
Fixture suddenly turned off.	Power was turned off.	Check the power supply, switches and breakers.
Light output cuts out intermittently.	Fixture is too hot.	Check fixture's stored error messages for more information. Allow fixture to cool. Clean fixture. Reduce ambient temperature.
Fixture suddenly stopped responding.	DMX cables were disconnected.	Inspect DMX cables.
Fixture operates irregularly / abnormal.	Incorrect DMX address or DMX mode.	Inspect and enter the correct DMX address or mode.
	DMX link is not	Install a XLR 120ohm DMX

	terminated.	termination at the end of the DMX link.
	Bad data link.	Replace or repair defective cables and/or connections.
	One of the fixtures is defective and is disturbing data transmission on the link.	Track and isolate the corrupted fixture. Have the fixture serviced by a qualified technician.

10/ Fixture Cleaning

Regular cleaning is very important for fixture life and performance. Buildup of dust, dirt, smoke particles, fog fluid residues, etc. degrades the fixture's light output and cooling ability. Cleaning schedules for lighting fixtures vary greatly depending on the operating environment. It is therefore impossible to specify precise cleaning intervals for the fixture. Environmental factors that may result in a need for frequent cleaning include:

- ▶ Use of smoke or fog machines.
- ▶ High airflow rates (near air conditioning vents, for example).
- ▶ Airborne dust (from stage effects, building structures and fittings or the natural environment at outdoor events, for example).

If one or more of these factors is present, inspect fixtures within their first few hours of operation to see whether cleaning is necessary. Check again at frequent intervals. This procedure will allow you to assess cleaning requirements in your particular situation.

Follow these precautions when cleaning the fixture:

- ▶ Work in a clean, dry, well-lit area.
- ▶ Use gentle pressure only. A soft lint-free cloth dampened with a solution of water and a mild detergent is recommended, under no circumstances should alcohol, solvents or abrasives be used! Use care when cleaning optical components: surfaces are fragile and easily scratched.

11/ Approvals and Certifications

This product has been tested and found to comply with the following standards:

- 2014/30/EU - Electromagnetic Compatibility (EMC)
- 2014/35/EU - Low Voltage Directive (LVD)



The information in this document is subject to change without notice.

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