

CONTENTS

01/ Safety Information	2
02/ Technical Specifications	4
03/ Overview	5
04/ Connecting Power and Data	6
4.1 Connecting Power	6
4.2 Connecting Data	7
05/ Fixture Installation	8
06/ Operation	10
6.1 Control Menu	10
6.2 Home Position Adjustment	21
07/ Configuring the Device for DMX Control	25
7.1 Address Setting	25
7.2 DMX Protocol	26
08/ Error Information	31
09/ Troubleshooting	
10/ Fixture Cleaning	34
11/ Approvals and Certifications	35

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.

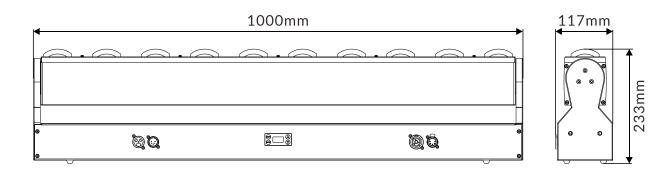
- Unpack and check carefully to ensure that there is no transportation damage before using the unit.
- This product is for indoor use only. Use only in a dry location.
- DO install and operate by qualified operator.
- DO NOT allow children to operate the fixture.
- Use safety chain when fixing the unit. 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: 0°C. Maximum ambient temperature TA: 40°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 55°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 0.5 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

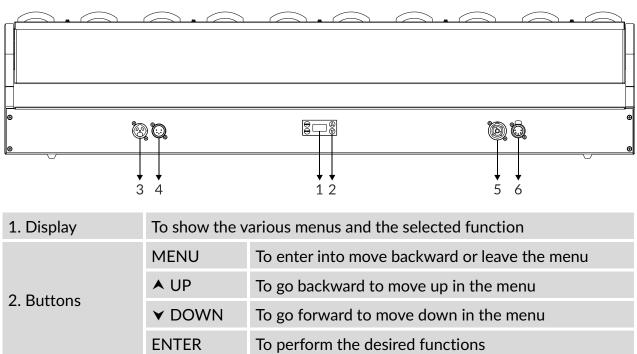
AC Power	100-240Vac; 50/60Hz				
Max. Power Consumption	210W				
Light Source	10x20W RGBW LED				
Beam Angle	2°				
Inclination Angle	0°-220°				
	DMX Channels	47/15/11			
Control and	Protocols	DMX512			
Programming	Protocois	RDM			
	Firmware Update	via DMX			
	Display	OLED display			
Construction	DMX and RDM Data In/Out	5-pin XLR (optional with 3-pin XLR)			
	Power In/Out	Power Connector in/out			
	Protection Rating	IP20			
	10 x RGBW LEDs with	individual con	trol		
Dynamic Effects	0-100% continuous din	nming and stro	d strobe effects		
Dynamic Effects	Choice of four dimming curves				
	Outstanding color mixin	ng			
	Power Cable				
Included Items	Two omega brackets with 1/4-turn fasteners				
	User Manual (this document)				
Dimensions	1000x117x233mm		39.4"x4.6"x9.2"		
Weight	11.5 kg 25.4 lbs				



Photometric Diagram:

Distance(m)	5	10	15	20
	I	I	I	
) 2°	
2° R Lux	4,770	1,130	524	298
2° G Lux	11,200	2,620	1,100	700
2° B Lux 2° W Lux	1,800 12,571	355 3,143	146 1,397	113 786
Diameter(m)	0.16	0.35	0.52	0.7

03/ Overview



2. Buttons	▼ DOWN To go forward to move down in the menu		
	ENTER	To perform the desired functions	
3. POWER IN	To connect to supply power		
4. DMX IN	For DMX512 link, use 5-pin XLR cable to link the unit and DMX controller to input DMX signal (optional with 3-pin XLR)		
5. POWER OUT	To connect to the next fixture		
6. DMX OUT	6. DMX OUT For DMX512 link, use 5-pin XLR cable to link the next ur output DMX signal (optional with 3-pin XLR)		

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 210W.

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	⊥_ or ⊥	ground (earth)

CAUTION!

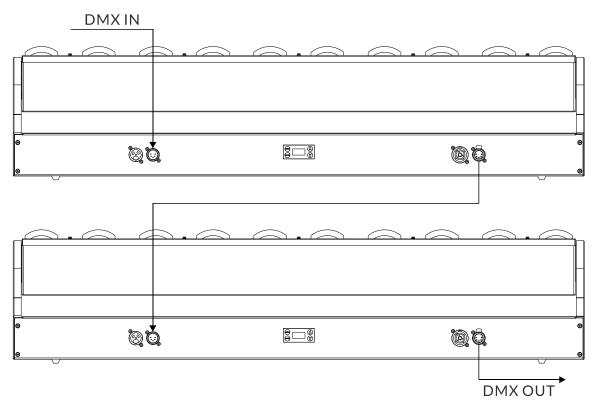
DO NOT CONNECT THE FIXTURE TO AN ELECTRICAL DIMMER SYSTEM AS DOING SO MAY CAUSE DAMAGE.

4.2 Connecting Data

The fixture is equipped with 5-pin (or 3-pin) XLR sockets for DMX input and output. Use a high-quality DMX cable designed for RS-485 and 5-pin (or 3-pin) XLR-plugs and connectors in order to connect the controller with the fixture or one fixture with another.

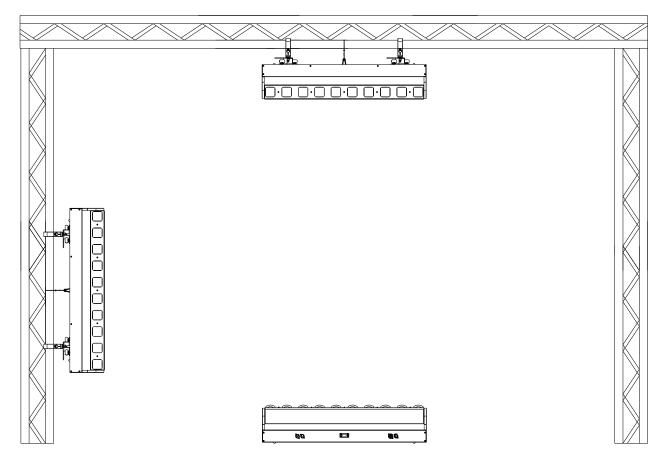
Building a serial DMX chain:

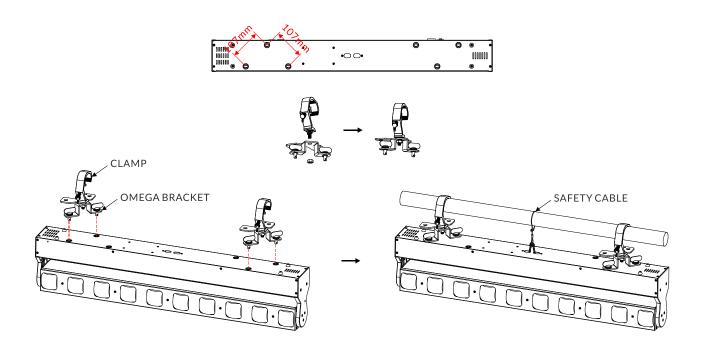
Connect the DMX data output from the controller to the fixture's data input socket. Connect the DMX output of the first fixture in the DMX chain with the DMX input of the next fixture. Always connect one output with the input of the next fixture until all fixtures are connected. Up to 32 fixtures can be connected to the same DMX link. Terminate the DMX out cable of the last fixture in the data link with a 120 ohm DMX terminator.



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 were 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 upside-down, 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		
		1-466 (47 CH)		
	DMX Address	1-498 (15 CH)	(Default=1)	
		1-502 (11 CH)		
		Mode 1 (47)		
DMX Settings	Channel Mode	Mode 2 (15)		
DIMA Settings		Mode 3 (11)		
		Hold		
	No DMX Status	Blackout		
		Manual		
	View DMX Value			
	Tilt Invert	No		
		Yes		
	Tilt Feedback	No		
		Yes		
		Linear		
	Dimmer Curve	Square Law		
	Diminer Curve	Inv SQ Law		
Fixture Settings		S Curve		
Tixture Settings	Dimmer Speed	Fast		
	Diminer Speed	Smooth		
		Red	125-255	
		Green	125-255	
	White Balance	Blue	125-255	
		Red 1	125-255	
		Green 1	125-255	
		Blue 1	125-255	

MAIN MENU	SUBMENU	СНС	DICES/VALUES
		Red 10	125-255
		Green 10	125-255
		Blue 10	125-255
		900Hz	
		1000Hz	
		1100Hz	
		1200Hz	
		1300Hz	
		1400Hz	
		1500Hz	
	LED Refresh Rate	2500Hz	
		4000Hz	
		5000Hz	
		6000Hz	
		10000Hz	
		15000Hz	
		20000Hz	
		25000Hz	
	Invert Pixel	No	
		Yes	
	Display Invert	No	
		Yes	
Display Settings	Temperature Unit	°C	
Display Settings		°F	
	Language	English	
		Chinese	

MAIN MENU	SUBMENU		CHOICES/VALUES				
		Single					
	Auto Test	Cycle					
		Мо	Mode 1			Mode 2	
		Clear	No/Yes		Clear		No/Yes
		Tilt	0-255		Tilt		0-255
		Red 1	0-255	255			0-255
		Green 1	0-255	-255		n	0-255
Fixture Test		Blue 1	0-255		Blue		0-255
	Manual Test	White 1	0-255		Whit	е	0-255
	i i i i i i i i i i i i i i i i i i i				Dimn	ner	0-255
		Red 10	0-255		Strob	e	0-255
		Green 10	0-255		Pix C	olor	0-255
		Blue 10	0-255	Pix		elect	0-255
		White 10	0-255		Pix S	peed	0-255
		Dimmer	0-255				
		Strobe	0-255				
	Fixture Use Hour						
		Total LED	Total LED Hour				
	LED Use Hour	LED On Ho	LED On Hour				
		LED Hours Reset		No		•	
					es	Pass	sword=050
Information	Temperature	LED's		Current N		Max temp	
internation							
	Firmware Version						
	RDM UID						
		Fixture Err	ors	-	_		
	Error Logs	Reset Erro	rlog	No			
			0	Ye	es	Pase	sword=050
Reset Functions	All Reset	No					
		Yes					
Factory Restore	No						
	Yes						

DMX Settings

Enter the control menu and select **DMX Settings**, press ENTER. Use the UP/DOWN button to select **DMX Address**, Channel Mode, No DMX Status or View DMX Value.

DMX Address

Select DMX Address, press ENTER.

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

CHANNEL MODE	DMX ADDRESS
Mode 1 (47)	1-466
Mode 2 (15)	1-498
Mode 3 (11)	1-502

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

Channel Mode

Select Channel Mode, press ENTER.

Use UP/DOWN button to select between Mode 1 (47), Mode 2 (15) and

Mode 3 (11), 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:

Hold (The device continues to operate in the current mode with the last

active DMX values until the signal returns)

Blackout (Fixture blacks out if DMX signal stops)

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.

Fixture Settings

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

Tilt Invert

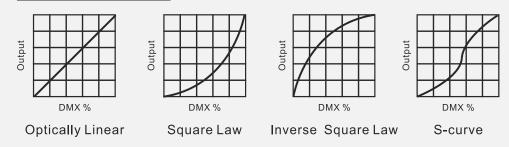
	Select Tilt Invert, press ENTER.
	Use UP/DOWN button to select No (tilt invert deactivated) or Yes (tilt
	invert activated), confirm your selection with ENTER.
	To exit the menu, press MENU, or wait 30 seconds.
Tilt Feedback	
	Select Tilt Feedback, press ENTER.
	Use UP/DOWN button to select No (tilt feedback deactivated) or Yes (tilt
	feedback activated), confirm your selection with ENTER.
	To exit the menu, press MENU, or wait 30 seconds.

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



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, Green, Blue, Red 1, Green 1, Blue 1.....** or **Red 10, Green 10, Blue 10**, confirm your selection with ENTER. Use UP/DOWN button to select a value between **125** and **255**, confirm

your selection with ENTER.

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

LED Refresh Rate

Select LED Refresh Rate, press ENTER.

Use UP/DOWN button to select **900Hz**, **1000Hz**, **1100Hz**, **1200Hz**, **1300Hz**, **1400Hz**, **1500Hz**, **2500Hz**, **4000Hz**, **5000Hz**, **6000Hz**, **10000Hz**, **15000Hz**, **10000Hz**, **1000Hz**, **1000Hz**, **1000Hz**

Invert Pixel

Select **Invert Pixel**, 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, Temperature Unit** or **Language**.

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.

Language

Select Language, press ENTER.

Use UP/DOWN button to select **English** or **Chinese**, 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. Use UP/DOWN button to select Single (the device immediately performs
	a single automatic self-test) or Cycle (the device immediately performs a
	cyclic automatic self-test), confirm your selection with ENTER.
	To exit the menu, press MENU.
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.
	(The device returns to its original DMX state after the manual test. The
	test values are saved automatically when the device is switched off.)

Information

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

Fixture Use Hour

Select **Fixture Use Hour,** press ENTER. The operating hours is displayed. To exit the menu, press MENU, or wait 30 seconds.

LED Use Hour

	Select LED Use Hour, press ENTER.
	Use UP/DOWN button to select Total LED Hour (total time) or LED On
	Hour (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 LED Hours Reset, confirm your
	selection with ENTER.
	If you wish to reset the relevant LED operating hours, 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 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.

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 $\ensuremath{\text{Yes}}$, 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.

Reset Functions

Enter the control menu and select **Reset Functions**, press ENTER. Use the UP/DOWN button to select **All Reset**.

All Reset

Select All Reset, press ENTER.

Use UP/DOWN button to select **No** or **Yes** (the device will run built-in program to reset all to their home positions), confirm your selection with ENTER.

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

Factory Restore

Select Factory Restore, 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	\checkmark		
DISC_MUTE	\checkmark		
DISC_UN_MUTE	\checkmark		
DEVICE_INFO			\checkmark
SUPPORTED_PARAMETERS			\checkmark
SOFTWARE_VERSION_LABEL			\checkmark
DMX_START_ADDRESS		\checkmark	\checkmark
IDENTIFY_DEVICE		\checkmark	\checkmark
DEVICE_MODEL_DESCRIPTION			\checkmark
PARAMETER_DESCRIPTION			\checkmark
MANUFACTURER_LABEL			\checkmark
DEVICE_LABEL		\checkmark	\checkmark
FACTORY_DEFAULTS		\checkmark	\checkmark
BOOT_SOFTWARE_VERSION_ID			\checkmark
BOOT_SOFTWARE_VERSION_LABEL			\checkmark
DMX_PERSONALITY		\checkmark	\checkmark
DMX_PERSONALITY_DESCRIPTION			\checkmark
SLOT_INFO			\checkmark
SLOT_DESCRIPTION			\checkmark
SENSOR_DEFINITION			\checkmark
SENSOR_VALUE			\checkmark
DEVICE_HOURS			\checkmark
LAMP_HOURS			\checkmark
TILT_INVERT		\checkmark	\checkmark
RESET_DEVICE		\checkmark	
CURVE		\checkmark	\checkmark
DMX_STATE		\checkmark	\checkmark
DIMMER_SPEED		\checkmark	\checkmark

 \checkmark -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
Tilt	-128~127
Red	-128~127
Green	-128~127
Blue	-128~127
White	-128~127
Red 1	-128~127
Green 1	-128~127
Blue 1	-128~127
White 1	-128~127
Red 10	-128~127
Green 10	-128~127
Blue 10	-128~127
White 10	-128~127

Frequency(Hz)

Select Frequency(Hz), press ENTER.

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

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

900Hz 772~1027 1000Hz 872~1127 1100Hz 972~1227 1200Hz 1072~1327 1300Hz 1172~1427 1400Hz 1272~1527 1500Hz 1372~1627 2500Hz 2372~2627 4000Hz 3872~4127 6000Hz 5872~6127 10000Hz 9872~10127 15000Hz 14872~15127	Frequency	VALUES
1100Hz972~12271200Hz1072~13271300Hz1172~14271400Hz1272~15271500Hz1372~16272500Hz2372~26274000Hz3872~41275000Hz4872~51276000Hz5872~612710000Hz9872~1012715000Hz14872~15127	900Hz	772~1027
1200Hz1072~13271300Hz1172~14271400Hz1272~15271500Hz1372~16272500Hz2372~26274000Hz3872~41275000Hz4872~51276000Hz5872~612710000Hz9872~1012715000Hz14872~15127	1000Hz	872~1127
1300Hz1172~14271400Hz1272~15271500Hz1372~16272500Hz2372~26274000Hz3872~41275000Hz4872~51276000Hz5872~612710000Hz9872~1012715000Hz14872~15127	1100Hz	972~1227
1400Hz1272~15271500Hz1372~16272500Hz2372~26274000Hz3872~41275000Hz4872~51276000Hz5872~612710000Hz9872~1012715000Hz14872~15127	1200Hz	1072~1327
1500Hz1372~16272500Hz2372~26274000Hz3872~41275000Hz4872~51276000Hz5872~612710000Hz9872~1012715000Hz14872~15127	1300Hz	1172~1427
2500Hz2372~26274000Hz3872~41275000Hz4872~51276000Hz5872~612710000Hz9872~1012715000Hz14872~15127	1400Hz	1272~1527
4000Hz3872~41275000Hz4872~51276000Hz5872~612710000Hz9872~1012715000Hz14872~15127	1500Hz	1372~1627
5000Hz 4872~5127 6000Hz 5872~6127 10000Hz 9872~10127 15000Hz 14872~15127	2500Hz	2372~2627
6000Hz5872~612710000Hz9872~1012715000Hz14872~15127	4000Hz	3872~4127
10000Hz9872~1012715000Hz14872~15127	5000Hz	4872~5127
15000Hz 14872~15127	6000Hz	5872~6127
	10000Hz	9872~10127
	15000Hz	14872~15127
20000Hz 19872~20127	20000Hz	19872~20127
25000Hz 24872~25127	25000Hz	24872~25127

Tilt

Red

S	Select Tilt, press ENTER.
ι	Jse UP/DOWN button to select a value between -128 and 127, confirm
у	our selection with ENTER.
Т	To exit the offset menu, press MENU, or wait 30 seconds.
S	Select Red, press ENTER.
ι	Jse UP/DOWN button to select a value between -128 and 127, confirm
y	our selection with ENTER.
Т	Fo exit the offset menu, press MENU, or wait 30 seconds.

Green

	Select Green, press ENTER.
	Use UP/DOWN button to select a value between -128 and 127, confirm
	your selection with ENTER.
	To exit the offset menu, press MENU, or wait 30 seconds.
Blue	
Diac	
	Select Blue, press ENTER.
	Use UP/DOWN button to select a value between -128 and 127, confirm
	your selection with ENTER.
	To exit the offset menu, press MENU, or wait 30 seconds.
White	
	Select White, press ENTER.
	Use UP/DOWN button to select a value between -128 and 127, 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 -128 and 127, confirm
	your selection with ENTER.
	To exit the offset menu, press MENU, or wait 30 seconds.
	To exit the offset menu, press menu, or wait 50 seconds.
Green 1	
	Select Green 1, press ENTER.
	Use UP/DOWN button to select a value between -128 and 127, 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 -128 and 127, confirm
	your selection with ENTER.
	To exit the offset menu, press MENU, or wait 30 seconds.

White 1

	Select White 1, press ENTER.
	Use UP/DOWN button to select a value between -128 and 127, confirm
	your selection with ENTER.
	To exit the offset menu, press MENU, or wait 30 seconds.
Red 10	
	Select Red 10, press ENTER.
	Use UP/DOWN button to select a value between -128 and 127, confirm
	your selection with ENTER.
	To exit the offset menu, press MENU, or wait 30 seconds.
Green 10	
	Select Green 10, press ENTER.
	Use UP/DOWN button to select a value between -128 and 127, confirm
	your selection with ENTER.
	To exit the offset menu, press MENU, or wait 30 seconds.
Blue 10	
	Select Blue 10, press ENTER.
	Use UP/DOWN button to select a value between -128 and 127, confirm
	your selection with ENTER.
	To exit the offset menu, press MENU, or wait 30 seconds.
White 10	
	Select White 10, press ENTER.
	Use UP/DOWN button to select a value between -128 and 127, 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 47 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 48. As the first fixture uses all the first 47 DMX channels, the next available channel is 48 (47+1=48 >> 48). See the chart below for more details:

Channel Mode	Unit 1 Address	Unit 2 Address	Unit 3 Address	Unit 4 Address	Unit xxx Address
47 channels	1	48	95	142	
15 channels	1	16	31	46	
11 channels	1	12	23	34	

7.2 DMX Protocol

CHANNEL				
47ch	15ch	11ch	VALUE	FUNCTION
1	1	1	000-255	TILT 0°→220°
2	2	2	000-255	TILT FINE
3	3	3	000-255	TILT SPEED Fast to Slow
	4	4	000-255	RED 0%→100%
	5	5	000-255	GREEN 0%→100%
	6	6	000-255	BLUE 0%→100%
	7	7	000-255	WHITE 0%→100%
4			000-255	RED 1 0%→100%
5			000-255	GREEN 1 0%→100%
6			000-255	BLUE 1 0%→100%
7			000-255	WHITE 1 0%→100%
8			000-255	RED 2 0%→100%
9			000-255	GREEN 2 0%→100%
10			000-255	BLUE 2 0%→100%
11			000-255	WHITE 2 0%→100%
12			000-255	RED 3 0%→100%
13			000-255	GREEN 3 0%→100%
14			000-255	BLUE 3 0%→100%
15			000-255	WHITE 3 0%→100%
16				RED 4

	000 055	00/ 1000/
	000-255	0%→100%
17	000-255	GREEN 4 0%→100%
18	000-255	BLUE 4 0%→100%
19	000-255	WHITE 4 0%→100%
20	000-255	RED 5 0%→100%
21	000-255	GREEN 5 0%→100%
22	000-255	BLUE 5 0%→100%
23	000-255	WHITE 5 0%→100%
24	000-255	RED 6 0%→100%
25	000-255	GREEN 6 0%→100%
26	000-255	BLUE 6 0%→100%
27	000-255	WHITE 6 0%→100%
28	000-255	RED 7 0%→100%
29	000-255	GREEN 7 0%→100%
30	000-255	BLUE 7 0%→100%
31	000-255	WHITE 7 0%→100%
32	000-255	RED 8 0%→100%
33	000-255	GREEN 8 0%→100%
34	000-255	BLUE 8 0%→100%
35	000-255	WHITE 8 0%→100%
36	000-255	RED 9 0%→100%
37	000-255	GREEN 9 0%→100%

38			000-255	BLUE 9 0%→100%
39				WHITE 9
40			000-255	0%→100% RED 10
			000-255	0%→100% GREEN 10
41			000-255	0%→100%
42			000-255	BLUE 10 0%→100%
43			000-255	WHITE 10 0%→100%
44	8	8	000-007 008-015 016-131 132-139 140-181 182-189 190-231 232-239 240-247 248-255	STROBE Close Open Strobe from Slow to Fast Open Slow Open Fast Close from Slow to Fast Open Fast Open Slow Close from Slow to Fast Open Random Strobe from Slow to Fast Open
45	9	9	000-255	DIMMER 0%→100%
46	10	10	000-255	DIMMER FINE
	11		000-255	PIXEL EFFECT DIMMER 0%→100%
	12		000-009 010-014 015-019 020-024 025-029 030-034 035-039 040-044 045-049 050-054 055-059 060-064 065-069 070-074 075-079 080-084 085-089	PIXEL EFFECT COLOR Open LEE 790-Moroccan Pink LEE 157-Pink LEE 332-Special Rose Pink LEE 328-Follies Pink LEE 345-Fuchsia Pink LEE 194-Surprise Pink LEE 194-Surprise Pink LEE 171-Tokyo Blue LEE 071-Tokyo Blue LEE 120-Deep Blue LEE 120-Deep Blue LEE 132-Medium Blue LEE 132-Medium Blue LEE 200-Double CT Blue LEE 161-State Blue LEE 201-Full CT Blue LEE 202-Half CT Blue LEE 117-Steel Blue

	090-094	LEE 353-Lighter Blue
	095-099	LEE 118-Light Blue
	100-104 105-109	LEE 116-Medium Blue Green LEE 124-Dark Green
	110-114	LEE 139-Primary Green
	115-119	LEE 089-Moss Green
	120-124	LEE 122-Fern Green
	125-129	LEE 738-JAS Green
	130-134 135-139	LEE 088-Lime Green LEE 100-Spring Yellow
	140-144	LEE 100 Spring Tenow LEE 104-Deep Amber
	145-149	LEE 179-Chrome Orange
	150-154	LEE 105-Orange
	155-159	LEE 021-Gold Amber
	160-164 165-169	LEE 778-Millennium Gold LEE 135-Deep Gold Amber
	170-174	LEE 164-Flame Red
	175-179	Open
	180-201	Clockwise Rotation, Fast to Slow
	202-207	Stop
	208-229	Counter-clockwise Rotation, Slow to Fast
	230-234 235-239	Open Random Color: Fast
	240-244	Random Color: Medium
	245-249	Random Color: Slow
	250-255	Open
		PIXEL EFFECT SELECT
	000-003 004-007	Null Built-in Effect 1
	008-011	Built-in Effect 2
	000-011	
	012-011	Built-in Effect 3
	012-015 016-019	Built-in Effect 3 Built-in Effect 4
	012-015 016-019 020-023	Built-in Effect 3 Built-in Effect 4 Built-in Effect 5
	012-015 016-019 020-023 024-027	Built-in Effect 3 Built-in Effect 4 Built-in Effect 5 Built-in Effect 6
	012-015 016-019 020-023 024-027 028-031	Built-in Effect 3 Built-in Effect 4 Built-in Effect 5 Built-in Effect 6 Built-in Effect 7
13	012-015 016-019 020-023 024-027	Built-in Effect 3 Built-in Effect 4 Built-in Effect 5 Built-in Effect 6
13	012-015 016-019 020-023 024-027 028-031 032-035 036-039 040-043	Built-in Effect 3 Built-in Effect 4 Built-in Effect 5 Built-in Effect 6 Built-in Effect 7 Built-in Effect 8 Built-in Effect 9 Built-in Effect 10
13	012-015 016-019 020-023 024-027 028-031 032-035 036-039 040-043 044-047	Built-in Effect 3 Built-in Effect 4 Built-in Effect 5 Built-in Effect 6 Built-in Effect 7 Built-in Effect 8 Built-in Effect 9 Built-in Effect 10 Built-in Effect 11
13	012-015 016-019 020-023 024-027 028-031 032-035 036-039 040-043 044-047 048-051	Built-in Effect 3 Built-in Effect 4 Built-in Effect 5 Built-in Effect 6 Built-in Effect 7 Built-in Effect 8 Built-in Effect 9 Built-in Effect 10 Built-in Effect 11 Built-in Effect 12
13	012-015 016-019 020-023 024-027 028-031 032-035 036-039 040-043 044-047	Built-in Effect 3 Built-in Effect 4 Built-in Effect 5 Built-in Effect 6 Built-in Effect 7 Built-in Effect 8 Built-in Effect 9 Built-in Effect 10 Built-in Effect 11
13	012-015 016-019 020-023 024-027 028-031 032-035 036-039 040-043 040-043 044-047 048-051 052-055	Built-in Effect 3 Built-in Effect 4 Built-in Effect 5 Built-in Effect 6 Built-in Effect 7 Built-in Effect 8 Built-in Effect 9 Built-in Effect 10 Built-in Effect 11 Built-in Effect 12 Built-in Effect 13
13	012-015 016-019 020-023 024-027 028-031 032-035 036-039 040-043 044-047 048-051 052-055 056-059 060-063 064-067	Built-in Effect 3 Built-in Effect 4 Built-in Effect 5 Built-in Effect 6 Built-in Effect 7 Built-in Effect 7 Built-in Effect 9 Built-in Effect 10 Built-in Effect 11 Built-in Effect 11 Built-in Effect 12 Built-in Effect 13 Built-in Effect 14 Built-in Effect 15 Built-in Effect 16
13	012-015 016-019 020-023 024-027 028-031 032-035 036-039 040-043 044-047 048-051 052-055 056-059 060-063 064-067 068-071	Built-in Effect 3 Built-in Effect 4 Built-in Effect 5 Built-in Effect 6 Built-in Effect 7 Built-in Effect 7 Built-in Effect 9 Built-in Effect 10 Built-in Effect 11 Built-in Effect 11 Built-in Effect 12 Built-in Effect 13 Built-in Effect 14 Built-in Effect 15 Built-in Effect 16 Built-in Effect 17
13	012-015 016-019 020-023 024-027 028-031 032-035 036-039 040-043 044-047 048-051 052-055 056-059 060-063 064-067	Built-in Effect 3 Built-in Effect 4 Built-in Effect 5 Built-in Effect 6 Built-in Effect 7 Built-in Effect 7 Built-in Effect 9 Built-in Effect 10 Built-in Effect 11 Built-in Effect 11 Built-in Effect 12 Built-in Effect 13 Built-in Effect 14 Built-in Effect 15 Built-in Effect 16

			080-083 084-087 088-091 092-095 096-099 100-103 104-107 108-111 112-115 116-119 120-123 124-127 128-131 132-135 136-255	Built-in Effect 20 Built-in Effect 21 Built-in Effect 22 Built-in Effect 23 Built-in Effect 24 Built-in Effect 25 Built-in Effect 25 Built-in Effect 27 Built-in Effect 27 Built-in Effect 28 Built-in Effect 29 Built-in Effect 30 Built-in Effect 31 Built-in Effect 32 Built-in Effect 33 Null
	14		000 001-127 128-255	PIXEL EFFECT SPEED Null Slow to Fast without Fade Slow to Fast with Fade
47	15	11	000-029 030-039 040-049 050-059 060-069 070-099 100-109 110-119 120-122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138-139	FUNCTION (To activate following functions, stop in DMX value for at least 3 seconds.) Null Dimmer Curve: Linear Dimmer Curve: Square Law Dimmer Curve: Inv SQ Law Dimmer Curve: S Curve Null Led Frequency Setting Enable Led Frequency Setting Disable Null 900Hz 1000Hz 1000Hz 1100Hz 1200Hz 1300Hz 1300Hz 1400Hz 500Hz 6000Hz 1000Hz

140-159	Null
160-169	Invert Pixel Order: Yes
170-179	Invert Pixel Order: No
180-199	Null
200-209	All Reset
210-219	Dimmer Speed: Fast
220-229	Dimmer Speed: Smooth
230-255	Null

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.

CPU-B/C Error

Check whether the 485 (DATA) leads on the PCB board are installed in place or disconnected.

Check whether the related 485 (DATA) signal circuit on the PCB board is damaged.

Tilt Reset Error

Check whether the position of the tilt where the magnet is installed falls off or is damaged.

Check whether there are obstacles in the tilt operating range.

Check whether the Hall element on the tilt is damaged.

Check whether the lead connecting the Hall element on the tilt and the PCB board is in poor contact or disconnected.

Check whether the motor on the tilt is damaged.

Check whether the related circuit of the motor drive board on the tilt is damage.

Tilt Encode Error

Check whether the encoder on the tilt is damaged. Check whether the lead connecting the encoder on the tilt and the PCB board is in poor contact or disconnected.

Tilt Encode No Find

Check whether the lead connecting the encoder on the tilt and the PCB board is in poor contact or disconnected.

Tilt Encode Disable

Check whether the encoder on the tilt is damaged.

LED Timeout Use

LED Too Hot Off

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

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 terminated.	Install a XLR 120ohm DMX 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.
Tilt is skipping / shuddering	Obstacles are within the required tilt clearance.	Inspect and remove any obstacles constraining free operation of the tilt.
	The Hall element is damaged.	Replace the Hall element.
	The magnetic steel fell out.	Replace the magnetic steel.

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.

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. For the latest information, visit www.acmelighting.com.

