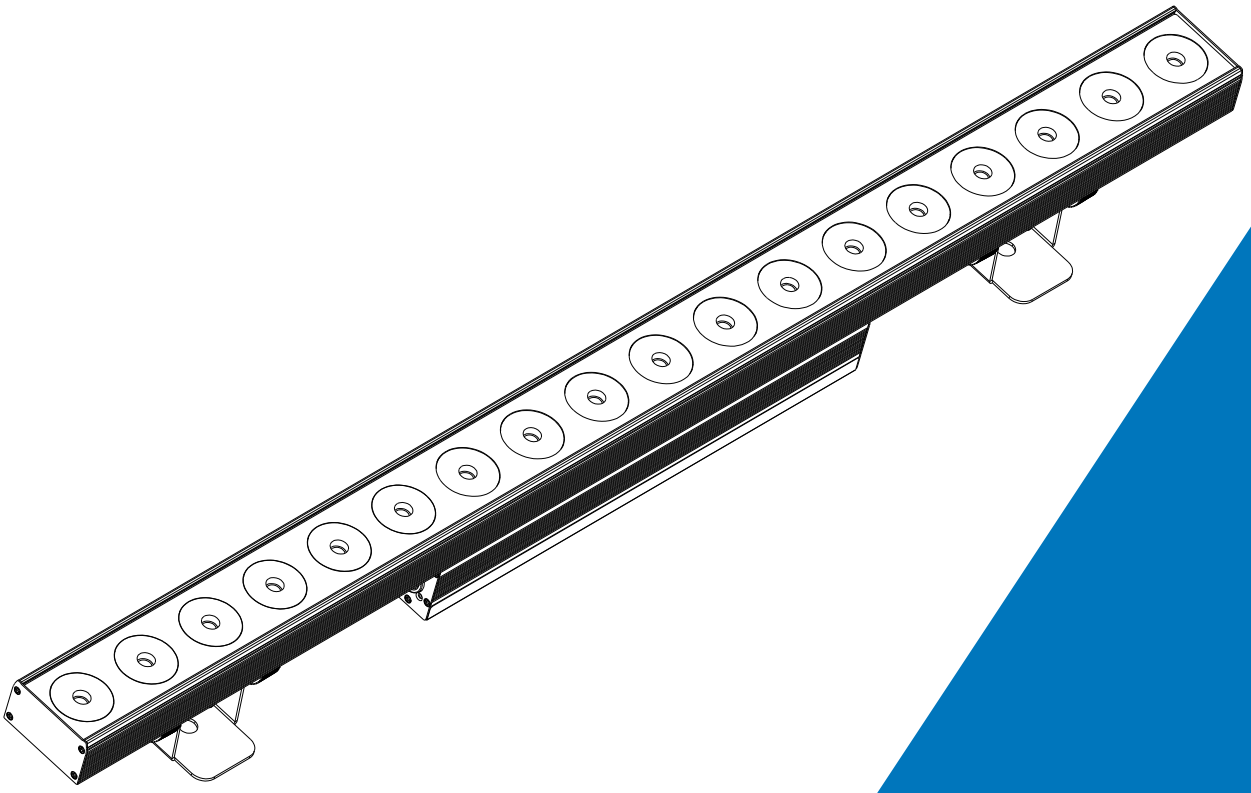
FLANDINA 18



User Manual

Please read the instruction carefully before use

CONTENTS

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.

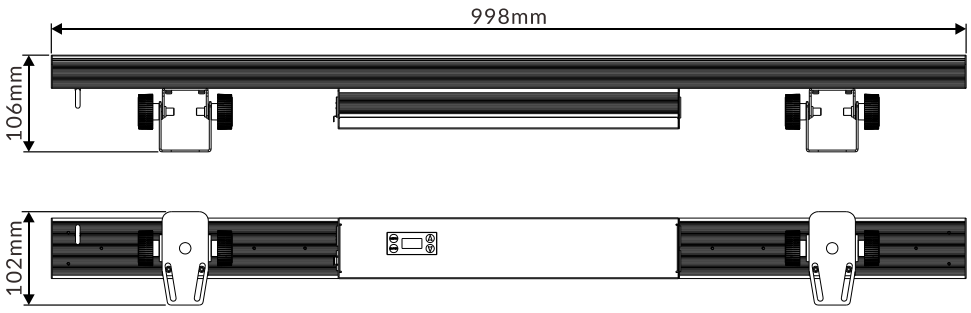
- Unpack and check carefully to ensure that there is no transportation damage before using the unit.
- This product is for indoor use only. Use only in a dry location.
- DO install and operate by qualified operator.
- DO NOT allow children to operate the fixture.
- Use safety chain when fixing the unit. 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 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.

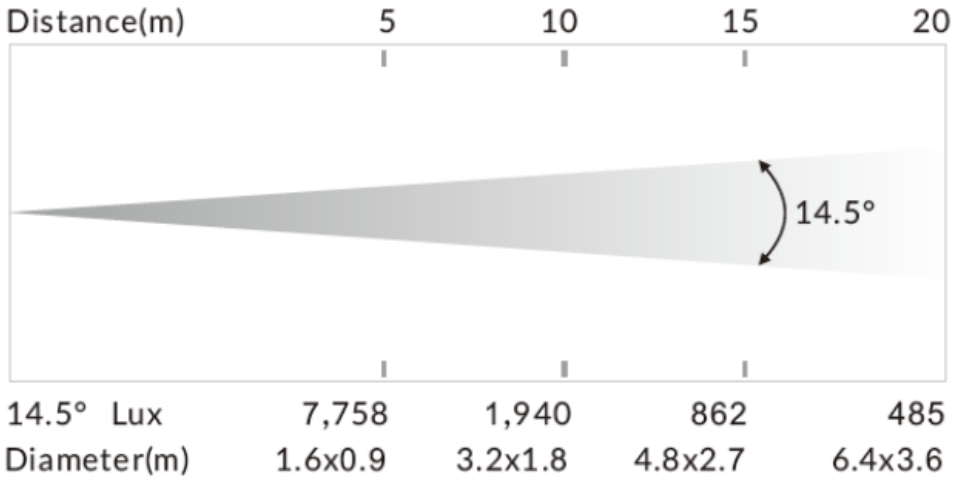
- DO NOT operate in a dirty or dusty environment. DO clean the fixture regularly.
- DO NOT touch any wire during operation as there might be a hazard of electric shock.
- Avoid entanglement of the power cord with other wires.
- The minimum distance to objects/surface must be more than 0.5 meters.
- In 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

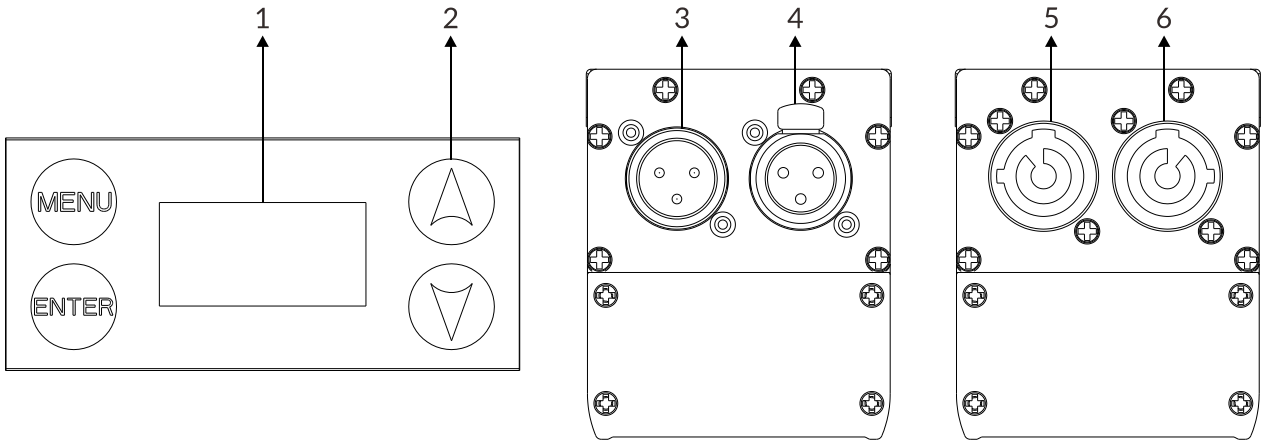
AC Power	100-240Vac; 50/60Hz		
Max. Power Consumption	125W		
Light Source	18x8W RGBW LED		
Beam Angle	14.5°		
Field Angle	26.4°		
Control and Programming	DMX Channels	16/11/10/8/4/22	
	Protocols	DMX512	
		RDM	
	Firmware Update	via DMX	
Construction	Display	OLED display	
	DMX and RDM Data In/Out	3-pin XLR (optional with 5-pin XLR)	
	Power In/Out	Power Connector in/out	
	Protection Rating	IP20	
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		
Included Items	Power Cable		
	User Manual (this document)		
Dimensions	998x102x106mm		39.3"x4"x4.2"
Weight	3.9 kg		8.6 lbs



Photometric Diagram:



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. DMX IN	For DMX512 link, use 3-pin XLR cable to link the unit and DMX controller to input DMX signal (optional with 5-pin XLR)	
4. DMX OUT	For DMX512 link, use 3-pin XLR cable to link the next units to output DMX signal (optional with 5-pin XLR)	
5. POWERCON IN	To connect to supply power	
6. POWERCON OUT	To connect to the next fixture	

04/ Connecting Power and Data

4.1 Connecting Power

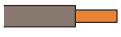
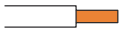
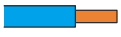
This fixture can operate on any 100-240Vac; 50/60Hz AC mains power supply.

The maximum power consumption is 125W.

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!

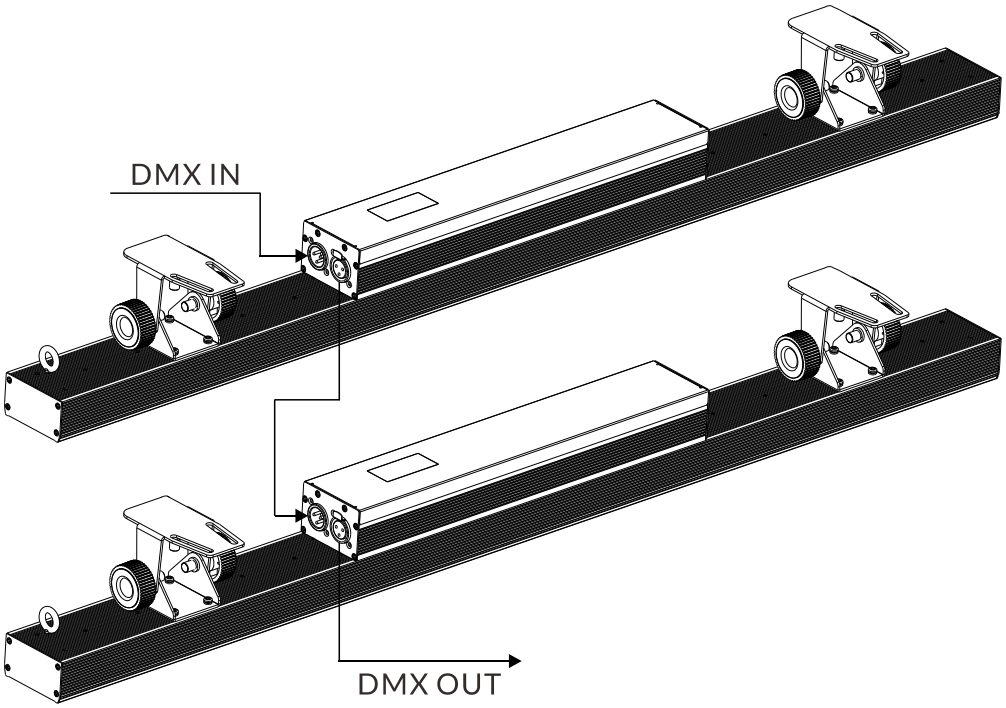
DO NOT CONNECT THE FIXTURE TO AN ELECTRICAL DIMMER SYSTEM AS DOING SO MAY CAUSE DAMAGE.

4.2 Connecting Data

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

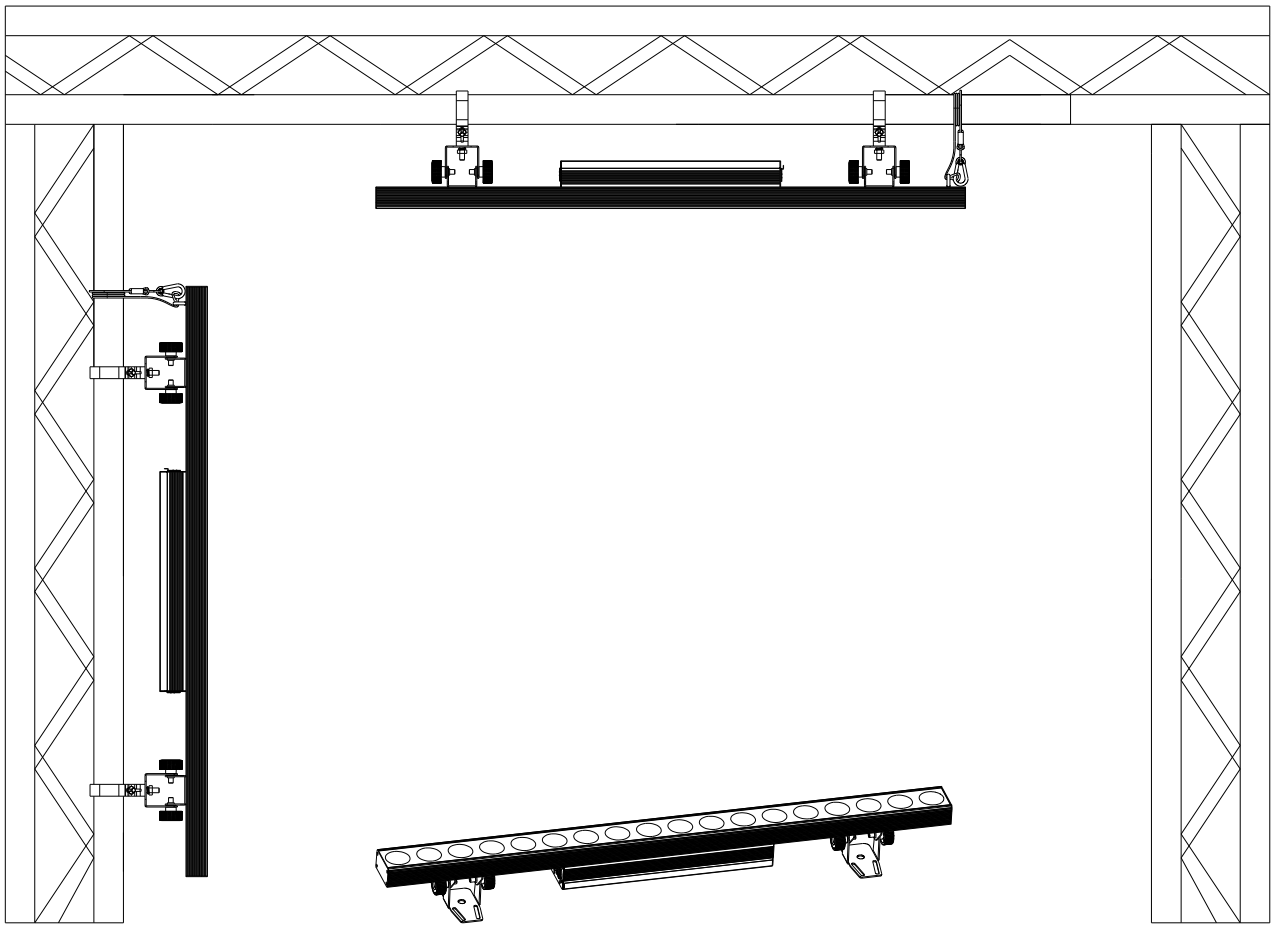
Building a serial DMX chain:

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 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	
DMX Settings	DMX Address	1-497 (16 CH)	(Default=1)
		1-502 (11 CH)	
		1-503 (10 CH)	
		1-505 (8 CH)	
		1-509 (4 CH)	
		1-491 (22 CH)	
	Channel Mode	Mode 1 (16)	
		Mode 2 (11)	
		Mode 3 (10)	
		Mode 4 (8)	
		Mode 5 (4)	
		Mode 6 (22)	
	No DMX Status	Hold	
		Blackout	
		Manual	
	View DMX Value		
Fixture Settings	Dimmer Curve	Linear	
		Square Law	
		Inv SQ Law	
		S Curve	
	Dimmer Speed	Fast	
		Smooth	
	White Balance	Red	125-255
		Green	125-255
		Blue	125-255
		Red 1	125-255

MAIN MENU	SUBMENU	CHOICES/VALUES	
		Green 1	125-255
		Blue 1	125-255
		Red 2	125-255
		Green 2	125-255
		Blue 2	125-255
		Red 3	125-255
		Green 3	125-255
		Blue 3	125-255
	Invert Pixel Order	No	
		Yes	
Display Settings	Display Invert	No	
		Yes	
	Temperature Unit	°C	
		°F	
	Language	English	
		Chinese	
Auto Test			
Manual Test	Mode 1		Mode 2	
	Clear	No/Yes	Clear	No/Yes
	Red 1	0-255	Red	0-255
	Green 1	0-255	Green	0-255
	Blue 1	0-255	Blue	0-255
	White 1	0-255	White	0-255
	Red 2	0-255	Shutter	0-255
	Green 2	0-255	Dimmer	0-255
	Blue 2	0-255		
	White 2	0-255		
	Red 3	0-255		
	Green 3	0-255		
	Blue 3	0-255		
	White 3	0-255		
	Shutter	0-255		

MAIN MENU	SUBMENU	CHOICES/VALUES		
Information	Fixture Use Hour			
	LED Use Hour	Total LED Hour		
		LED On Hour		
		LED Hours Reset	No	
			Yes	Password=050
	Temperature		Current	Max temp
		LED		
		PCBA		
	Firmware Version			
	RDM UID			
	Error Logs	Fixture Errors		
		Reset Error Log	No	
			Yes	Password=050
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 (16)	1-497
Mode 2 (11)	1-502
Mode 3 (10)	1-503
Mode 4 (8)	1-505
Mode 5 (4)	1-509
Mode 6 (22)	1-491

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 (16), Mode 2 (11), Mode 3 (10), Mode 4 (8), Mode 5 (4)** and **Mode 6 (22)**, 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.

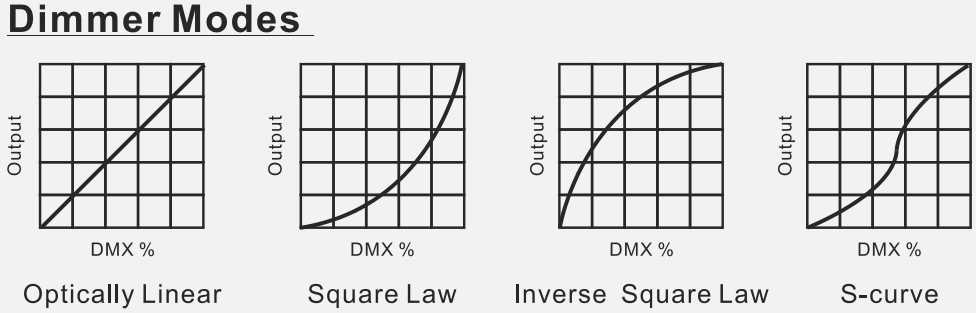
Fixture Settings

Enter the control menu and select **Fixture Settings**, press ENTER. Use the UP/DOWN button to select **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.



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 3, Green 3, Blue 3**, 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, 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.

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.)

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 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 **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.

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	√		
DISC_MUTE	√		
DISC_UN_MUTE	√		
DEVICE_INFO			√
SUPPORTED_PARAMETERS			√
SOFTWARE_VERSION_LABEL			√
DMX_START_ADDRESS		√	√
IDENTIFY_DEVICE		√	√
DEVICE_MODEL_DESCRIPTION			√
PARAMETER_DESCRIPTION			√
MANUFACTURER_LABEL			√
DEVICE_LABEL		√	√
FACTORY_DEFAULTS		√	√
BOOT_SOFTWARE_VERSION_ID			√
BOOT_SOFTWARE_VERSION_LABEL			√
DMX_PERSONALITY		√	√
DMX_PERSONALITY_DESCRIPTION			√
SLOT_INFO			√
SLOT_DESCRIPTION			√
SENSOR_DEFINITION			√
SENSOR_VALUE			√
DEVICE_HOURS			√
RESET_DEVICE		√	

√ -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 1	0~255
Green 1	0~255
Blue 1	0~255
White 1	0~255
Red 2	0~255
Green 2	0~255
Blue 2	0~255
White 2	0~255
Red 3	0~255
Green 3	0~255
Blue 3	0~255
White 3	0~255

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 1

Select **Red 1,** press ENTER.
Use UP/DOWN button to select a value between 0 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 0 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 0 and 255, 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 0 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 0 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 0 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 0 and 255, confirm your selection with ENTER.
To exit the offset menu, press MENU, or wait 30 seconds.

White 2

Select **White 2,** press ENTER.
Use UP/DOWN button to select a value between 0 and 255, confirm your selection with ENTER.
To exit the offset menu, press MENU, or wait 30 seconds.

Red 3

Select **Red 3,** press ENTER.
Use UP/DOWN button to select a value between 0 and 255, confirm your selection with ENTER.
To exit the offset menu, press MENU, or wait 30 seconds.

Green 3

Select **Green 3,** press ENTER.
Use UP/DOWN button to select a value between 0 and 255, confirm your selection with ENTER.
To exit the offset menu, press MENU, or wait 30 seconds.

Blue 3

Select **Blue 3,** press ENTER.
Use UP/DOWN button to select a value between 0 and 255, confirm your selection with ENTER.
To exit the offset menu, press MENU, or wait 30 seconds.

White 3

Select **White 3,** press ENTER.
Use UP/DOWN button to select a value between 0 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 16 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 17. As the first fixture uses all the first 16 DMX channels, the next available channel is 17 (16+1=17 >> 17).

See the chart below for more details:

Channel Mode	Unit 1 Address	Unit 2 Address	Unit 3 Address	Unit 4 Address	Unit xxx Address
16 Channel	1	17	33	49	.....
11 Channel	1	12	23	34	.....
10 Channel	1	11	21	31	.....
8 Channel	1	9	17	25	.....
4 Channel	1	5	9	13	.....
22 Channel	1	23	45	67	.....

7.2 DMX Protocol

CHANNEL						VALUE	FUNCTION
16ch	11ch	10ch	8ch	4ch	22ch		
	1	1	1	1		000-255	RED 0%→100%
	2		2			000-255	RED FINE
	3	2	3	2		000-255	GREEN 0%→100%
	4		4			000-255	GREEN FINE
	5	3	5	3		000-255	BLUE 0%→100%
	6		6			000-255	BLUE FINE
	7	4	7	4		000-255	WHITE 0%→100%
	8		8			000-255	WHITE FINE
1					1	000-255	RED 1 0%→100%
2					2	000-255	GREEN 1 0%→100%
3					3	000-255	BLUE 1 0%→100%
4					4	000-255	WHITE 1 0%→100%
5					5	000-255	RED 2 0%→100%
6					6	000-255	GREEN 2 0%→100%
7					7	000-255	BLUE 2 0%→100%
8					8	000-255	WHITE 2 0%→100%
9					9	000-255	RED 3 0%→100%
10					10	000-255	GREEN 3 0%→100%
11					11	000-255	BLUE 3 0%→100%
12					12	000-255	WHITE 3 0%→100%
13	9	7			13	000-007 008-015 016-131 132-139 140-181	STROBE Close Open Strobe from Slow to Fast Open Slow Open Fast Close from Slow to Fast

						182-189 190-231 232-239 240-247 248-255	Open Fast Open Slow Close from Slow to Fast Open Random Strobe from Fast to Slow Open
14	**10**	**8**			**14**	000-255	**DIMMER** 0%→100%
15	**11**	**9**			**15**	000-255	**DIMMER FINE**
					16	000-255	**DIMMER 1** 0%→100%
					17	000-255	**DIMMER 1 FINE**
					18	000-255	**DIMMER 2** 0%→100%
					19	000-255	**DIMMER 2 FINE**
					20	000-255	**DIMMER 3** 0%→100%
					21	000-255	**DIMMER 3 FINE**
		5				000 001-004 005-009 010-013 014-018 019-022 023-027 028-031 032-036 037-040 041-045 046-049 050-054 055-058 059-063 064-067 068-072 073-076 077-081 082-085 086-090 091-094 095-099 100-103 104-108 109-112 113-117 118-121 122-126 127-130 131-135 136-139	**CTO (8000K-2500K)** 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 5300K 5200K 5100K 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
						000-009	Null
						010-014	LEE 790-Moroccan Pink
						015-019	LEE 157-Pink
						020-024	LEE 332-Special Rose Pink
						025-029	LEE 328-Follies Pink
						030-034	LEE 345-Fuchsia Pink
						035-039	LEE 194-Surprise Pink
						040-044	LEE 181-Congo Blue
						045-049	LEE 071-Tokyo Blue
						050-054	LEE 120-Deep Blue
						055-059	LEE 079-Just Blue
						060-064	LEE 132-Medium Blue
						065-069	LEE 200-Double CT Blue
		6				070-074	LEE 161-State Blue
						075-079	LEE 201-Full CT Blue
						080-084	LEE 202-Half CT Blue
						085-089	LEE 117-Steel Blue
						090-094	LEE 353-Lighter Blue
						095-099	LEE 118-Light Blue
						100-104	LEE 116-Medium Blue Green
						105-109	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	LEE 088-Lime Green
						135-139	LEE 100-Spring Yellow
						140-144	LEE 104-Deep Amber

						145-149	LEE 179-Chrome Orange
						150-154	LEE 105-Orange
						155-159	LEE 021-Gold Amber
						160-164	LEE 778-Millennium Gold
						165-169	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	Open
						235-239	Random Color: Fast
						240-244	Random Color: Medium
						245-249	Random Color: Slow
						250-255	Open
16		**10**			**22**		**FUNCTION** (To activate following functions, stop in DMX value for at least 3 seconds.)
						000-029	Null
						030-039	Dimmer Curve: Linear
						040-049	Dimmer Curve: Square Law
						050-059	Dimmer Curve: Inv SQ Law
						060-069	Dimmer Curve: S Curve
						070-099	Null
						100-109	Led Frequency Setting Enable
						110-119	Led Frequency Setting Disable
						120-179	Null
						180-189	Dimmer Speed: Fast
						190-199	Dimmer Speed: Smooth
						200-255	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.

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 Timeout Use

LED Too Hot Off

When the fixture temperature reaches 82℃, 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.

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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