User Manual

Please read the instruction carefully before use

CONTENTS

WARNING

Please read the instruction carefully which includes important information

Please keep this User Guide 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 suitable for wet locations. Do not immerse in water.
- 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℃. Maximum ambient temperature TA: 40℃. 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.

01/Safety Instructions

- Make sure the power cord is not crimped or damaged; replace it immediately if damaged.
- 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.
- 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.

02/ Technical Specifications

Power Voltage	100-240V ~ 50/60Hz(Auto-ranging)	
Power Consumption	2000W	
Light Source	96x10W RGB leds with 10 degree lens,32x40W Lime and cool white leds,96x0.5W RGB background leds	
Beam Angle	10 degree(RGB mainly output led),45 deg(White output led),equipped with electronic frost glass	
Dimmer/Strobe	0-100% smooth dimming；high output strobe effect	
Control	DMX Channel	31CH
		71CH
		75CH
		81CH
	Control Mode	DMX512
		RDM
		Master/Slave
		Manual
		Art-Net
		sACN
	Firmware Upgrade	Firmware upgrade via DMX link
Construction	Display	OLED touch display
	Housing	Black die-casting aluminum
	Data IN/Out	3-pin XLR or 5-pin XLR
	Power In/Out	Seetronic Powerkon IP65
	Art-Net	Seetronic etherCON IP65
Features	16xRGB/8 x CW/LEM LED zones with individual control	
	Outstanding color mixing effect	
Dimensions	52x16x38cm	
Weight	16.5kg	

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

4.1 Main Functions

◆ 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. 4
To return to a higher level in the menu structure without making a change,
press the [MENU] button, or wait 30 seconds.

> The screen will be automatically locked if there is no operation for a long
> time, and can be unlocked by long-pressing the [MENU]

MENU	SUBMENU	OPTIONS	
DMX SETUP	001-512		
Channel	31/71/75/81CH		
Personality	Dim Curve	Linear	
		Square	
		Inv SQ	
		S-Curve	
	Dim Mode	Speed 0	
		Speed 1	
		Speed 2	
		…	
		Speed 7	
	No Data	Hold	
		Blackout	
	M/S mode	Slave	
		Master	
	Display	Rotate	
		Intensity	
		Temp. Unit	

		Language	
		Lock	On/Off
Fixture Test	All test	Testing	
	Effect Test	Dimmer	
		Red	
		Green	
		Blue	
		White	
DMX LIVE	00		
Manual	Tilt	0-255	
	Tilt fine	0-255	
	Dimmer	0-255	
	Strobe	0-255	
	Red	0-255	
	Green	0-255	
	Blue	0-255	
	White	0-255	
	Strobe	0-255	
	Effect	0-255	
	Effect speed	0-255	
	Macro	0-255	
	M-Dim	0-255	
Program	Program 1	0-255	
	Program 2	0-255	
	Program 3	0-255	
	Program 4	0-255	
Information	On time	xxxxxH	
	Version	xxxx	
	Temperature	`C	
	RDM UID		

DMX Setting

Enter the control menu and select DMX Setting, press ENTER. Use the UP/DOWN button to select DMX Address, Ethernet Setup or Connect Option.

DMX Address

Select **DMX Address**, press ENTER.

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

CHANNEL MODE	DMX ADDRESS
31 Channel	1-482
71 Channel	1-441
75 Channel	1-438
81 Channel	1-432

To exit the menu,press Menu.

Connect Option

Select Connect Option, press ENTER.

Use UP/DOWN button to select Auto, DMX , confirm your selection with ENTER.

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

Channel Mode

Select Channel Mode, press ENTER.

Use UP/DOWN button to select between 13 Channel , 17 Channel , 20 Channel, 27 Channel, 70 Channel, 72 Channel,73 Channel,confirm your selection with ENTER.
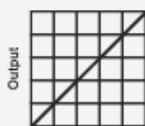
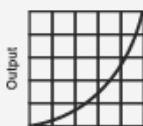To exit the menu, press MENU, or wait 30 seconds.

Dimmer Curve

Select Dimmer Curve, press ENTER.

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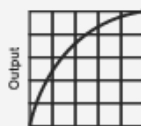

Dimmer Modes

Optically Linear   Square Law   Inverse Square Law   S-curve
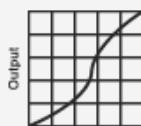
To exit the menu, press MENU, or wait 30 seconds.

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.

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.

Manual Test

Select Manual Test, press ENTER.

Use UP/DOWN button to select Red, Green, Blue, White, Intensity, Duration or Rate, confirm your selection with ENTER.

Use UP/DOWN button to select a value between 0 and 255, confirm your selection with ENTER.

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

Program

Select Program, 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.

Temperature

Select Temperature, press ENTER.

The device temperature is displayed.

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

On Time

Select On Time, press ENTER.

The operating hours 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.

Software Version

Select Software Version, press ENTER.

The firmware version is displayed.

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

Factory Reset

Select Factory Reset, 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.

5.1 DMX512 Connection

1. At last unit, the DMX cable has to be terminated with a terminator. Solder a 120-ohm 1/4W resistor between pin 2(DMX-) and pin 3(DMX+) into a 3-pin XLR-plug and plug it in the DMX-output of the last unit.

2. Connect the unit together in a "daisy chain" by XLR plug cable from the output of the unit to the input of the next unit. The cable can only be used in series and cannot be connected in parallel. DMX 512 is a very high-speed signal. Inadequate or damaged cables, soldered joints or corroded connectors can easily distort the signal and shut down the system.

3. The DMX output and input connectors are pass-through to maintain the DMX circuit, when one of the units' power is disconnected.

4. Each lighting unit needs to have a DMX address to receive the data by the controller. The address number is between 1-512.

5. The end of the DMX 512 system should be terminated to reduce signal errors.

6. 3 pin XLR connectors are more popular than 5 pins XLR.

     3 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+)

     5 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+), Pin4, Pin5 not used.

5.2 DMX512 Configuration

Please control the fixture by referring to the configurations below.

Attentions:
- ◆ The unit will maintain the last condition until reset if you cut-off the DMX signal.
- ◆ For the channel Function, keep the value for about 3 seconds, then the corresponding function will take into effect.

31Channels:

CHANNEL	VALUE	FUNCTION
1	000-255	Tilt
2	000-255	Fine tilt
3	000-255	Tilt movement speed from fast to slow
4	000-255	RGB(Lens) Dimming from 0 – 100%
5	000-255	RGB(Lens) fine dimming from 0 – 100%
6	000-255	Red(Lens) 0 – 100%
7	000-255	Green(Lens) 0 – 100%
8	000-255	Blue(Lens) 0 – 100%
9	000-255	RGB(Lens) strobe duration
10	000-255	RGB(Lens)strobe rate from slow to fast
11	000-255	RGB(Lens) strobe effect
12	000-255	RGB(Lens) special effect
13	000-255	RGB(Lens) speed of effect
14	000-255	RGB(Lens)background color
15	000-255	CW/Lime dimming from 0 – 100%
16	000-255	CW/Lime fine dimming from 0–100%
17	000-255	Cool white 0 – 100%
18	000-255	Lime 0 – 100%

CHANNEL	VALUE	FUNCTION
19	000-255	CW/Lime strobe duration
20	000-255	CW/Lime strobe rate from slow to fast
21	000-255	CW/Lime strobe effect
22	000-255	CW/Lime special effect
23	000-255	CW/Lime speed of effect
24	000-255	RGB(Background) dimming from 0-100%
25	000-255	RGB(Background) strobe
26	000-255	Red(Background) 0 – 100%
27	000-255	Green(Background) 0 – 100%
28	000-255	Blue(Background) 0 – 100%
29	000-255	RGB(Background) special effect
30	000-255	RGB(background) speed of effect
31	000-255	Frost

71Channels:

CHANNEL	VALUE	FUNCTION
1	000-255	Tilt
2	000-255	Fine tilt
3	000-255	Tilt movement speed from fast to slow
4	000-255	Master dimmer 0 – 100%
5	000-255	Red(Lens) 1 dimming from 0 – 100%
6	000-255	Green(Lens) 1 dimming from 0 – 100%
7	000-255	Blue(Lens) 1 dimming from 0 – 100%
…	000-255	…
49	000-255	Red(Lens) 16 dimming from 0 – 100%
50	000-255	Green(Lens) 16 dimming from 0 – 100%
51	000-255	Blue(Lens) 16 dimming from 0 – 100%
52	000-255	Cool white 1 dimming from 0 -100%
53	000-255	Lime 1 dimming from 0 – 100%
…	000-255	…

CHANNEL	VALUE	FUNCTION
66	000-255	Cool white 8 dimming from 0 -100%
67	000-255	Lime 8 dimming from 0 – 100%
68	000-255	Red(Background) dimming from 0 – 100%
69	000-255	Green(Background) dimming from 0 – 100%
70	000-255	Blue(Background) dimming from 0 – 100%
71	000-255	Frost

75Channels:

CHANNEL	VALUE	FUNCTION
1	000-255	Tilt
2	000-255	Fine tilt
3	000-255	Tilt movement speed from fast to slow
4	000-255	Red(Lens) 1 dimming from 0 – 100%
5	000-255	Green(Lens) 1 dimming from 0 – 100%
6	000-255	Blue(Lens) 1 dimming from 0 – 100%
…	000-255	…
49	000-255	Red(Lens) 16 dimming from 0 – 100%
50	000-255	Green(Lens) 16 dimming from 0 – 100%
51	000-255	Blue(Lens) 16 dimming from 0 – 100%
52	000-255	Cool white 1 dimming from 0 -100%
53	000-255	Lime 1 dimming from 0 – 100%
…	000-255	…
66	000-255	Cool white 8 dimming from 0 -100%
67	000-255	Lime 8 dimming from 0 – 100%
68	000-255	RGB(Background) dimming from 0 – 100%
69	000-255	RGB(Background) strobe from slow to fast
70	000-255	Red(background) 0 – 100%
71	000-255	Green(Background) 0 – 100%
72	000-255	Blue(Background) 0 – 100%

73	000-255	RGB(background) special effect
74	000-255	RGB(background) speed of effect
75	000-255	Frost

81Channels:

CHANNEL	VALUE	FUNCTION
1	000-255	Tilt
2	000-255	Fine tilt
3	000-255	Tilt movement speed from fast to slow
4	000-255	Red(Lens) 1 dimming from 0 – 100%
5	000-255	Green(Lens) 1 dimming from 0 – 100%
6	000-255	Blue(Lens) 1 dimming from 0 – 100%
…	000-255	…
49	000-255	Red(Lens) 16 dimming from 0 – 100%
50	000-255	Green(Lens) 16 dimming from 0 – 100%
51	000-255	Blue(Lens) 16 dimming from 0 – 100%
52	000-255	Cool white 1 dimming from 0 -100%
53	000-255	Lime 1 dimming from 0 – 100%
…	000-255	…
66	000-255	Cool white 8 dimming from 0 -100%
67	000-255	Lime 8 dimming from 0 – 100%
68	000-255	RGB(Lens) dimming from 0 – 100%
69	000-255	RGB(Lens)fine dimming from 0 – 100%
70	000-255	CW/Lime dimming from 0 – 100%
71	000-255	CW/Lime fine dimming from 0 – 100%
72	000-255	RGB(Lens) strobe from slow to fast
73	000-255	CW/Lime strobe from slow to fast
74	000-255	RGB(background) dimming from 0 – 100%
75	000-255	RGB(background) strobe from slow to fast
76	000-255	Red(background) 0 – 100%

77	000-255	Green(Background) 0 – 100%
78	000-255	Blue(Background) 0 – 100%
79	000-255	RGB(background) special effect
80	000-255	RGB(background) speed of effect
81	000-255	Frost

LED PIXEL ZONES:
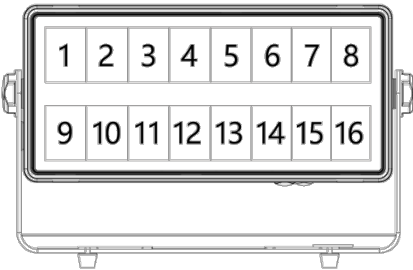
RGB   **WHITE**

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

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.

Fan 1/2/3/4 Error

Check whether the fan is not running.
Check whether the fan leads are installed in place or disconnected. Check whether the fan is damaged.
Check whether there are obstacles in the fan operating range.
Check whether the fan circuit on the motherboard breaks down.
Check whether the component is damaged.
Check whether the fan is out of order.

07/ Troubleshooting

Following are a few common problems that may occur during operation. Here are some suggestions for troubleshooting:

A. The unit does not work, no light and the fan does not work

➤ Check the connected power.

➤ Measure the voltage.

➤ Check the power indicator to see whether it can be lit up or not.

B. Not responding to the DMX controller

➤ Check whether the DMX connectors and the DMX cables are connected correctly.

➤ Check whether the DMX address is correctly set.

➤ If the intermittent DMX signal problem occurs, check whether the XLR socket and the signal cable are well connected.

➤ Try it with another DMX controller.

➤ Check whether the DMX cables run near or alongside to the high-voltage cables, which may damage or interfere with the signal circuit.

08/ Fixture Cleaning

It is absolutely essential that the fixture is kept clean to ensure the maximum light-output and allow the fixture to function reliably throughout its life. The fixture must be cleaned regularly to avoid dust, dirt and smoke-fluid residues building up on or within the fixture. The cleaning frequency depends on the application environment. Clean the fixture immediately if the dust enters it to avoid damage to the optical lens due to excessive dust.

➤ A soft lint-free cloth moistened with any good glass cleaning fluid is recommended, under no circumstances should solvents be used.

➤ Always dry the parts carefully.

➤ Clean the external optical lens at least every 20 days.