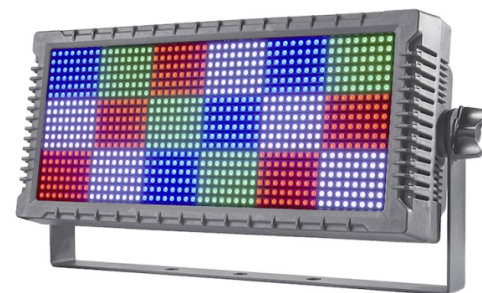


ST-1200-RGB



USER MANUAL

Table Of Contents

- 1. Safety instruction
- 2. Introduction
- 3. Fixture overview
- 4. How to set the unit
 - 4.1 Control panel
 - 4.2 Main function
- 5. Control by DMX
 - 5.1 DMX512 connection
 - 5.2 Addressing setting
 - 5.3 DMX protocol
- 6. Maintenance
 - 6.1 Cleaning
 - 6.2 LED performance
- 7. Technical Specification

MAINTENANCE

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

- A. The unit does not work, no light and the fan does not work
 - 1. Check the connection of power and main fuse.
 - 2. Measure the mains voltage on the main connector.
 - 3. Check the power on LED.
- B. Not responding to DMX controller
 - 1. DMX LED should be on. If not, check DMX connectors and cables to see if link properly.
 - 2. If the DMX LED is on and no response to the channel, check the address settings and DMX polarity.
 - 3. If you have intermittent DMX signal problems, check the pins on connectors or on PCB of the unit or the previous one.
 - 4. Try to use another DMX controller.
 - 5. Check if the DMX cables run near or run alongside to high voltage cables that may cause damage or interference to DMX interface circuit.
- C. One of the channels is not working well
 - 1. The stepper motor might be damaged or the cable connected to the PCB is broken.

TECHNICAL SPECIFICATION

Control mode: DMX 512/Manual/Master&Slave

DMX Channel:5/13/54CH

Lighting source: 864pcs 0.4W RGB 3 in 1 LEDs

Power:350W

Beam angle:120 degree

Color system: RGB mixing color

Control Panel:LCD display + Button

Flashing Rate: reaching at 10KHz PWM rating.

0-100% smooth linear dimming,20 kinds of internal programs

Dimension:460*124*230mm

Weight:4.3Kg

28	000-255	Red 0-100%	LED Group 10
29	000-255	Green 0-100%	
30	000-255	Blue 0-100%	
31	000-255	Red 0-100%	LED Group 11
32	000-255	Green 0-100%	
33	000-255	Blue 0-100%	
34	000-255	Red 0-100%	LED Group 12
35	000-255	Green 0-100%	
36	000-255	Blue 0-100%	
37	000-255	Red 0-100%	LED Group 13
38	000-255	Green 0-100%	
39	000-255	Blue 0-100%	
40	000-255	Red 0-100%	LED Group 14
41	000-255	Green 0-100%	
42	000-255	Blue 0-100%	
43	000-255	Red 0-100%	LED Group 15
44	000-255	Green 0-100%	
45	000-255	Blue 0-100%	
46	000-255	Red 0-100%	LED Group 16
47	000-255	Green 0-100%	
48	000-255	Blue 0-100%	
49	000-255	Red 0-100%	LED Group 17
50	000-255	Green 0-100%	
51	000-255	Blue 0-100%	
52	000-255	Red 0-100%	LED Group 18
53	000-255	Green 0-100%	
54	000-255	Blue 0-100%	

Safety instruction



Warning!



Warning!



Warning!

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

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

1. Unpack and check carefully there is no transportation damage before using the unit.
2. Before operating, ensure that the voltage and frequency of power supply match the power requirements of the unit.
3. It's important to ground the yellow/green conductor to earth in order to avoid electric shock.
4. The unit is for indoor use only. Use only in a dry location.
5. The unit must be installed in a location with adequate ventilation, at least 50cm from adjacent surfaces. Be sure that no ventilation slots are blocked.
6. Disconnect main power before replacement or servicing.
7. Make sure there are no flammable materials close to the unit while operating as it is fire hazard.
8. Use safety cables when fixing this unit. DO NOT handle the unit by its head only, always carry by its base.
9. Maximum ambient temperature is Ta: 40 degrees C. DO NOT operate it where the temperature is higher than this.
10. Unit surface temperature may reach up to 75 degrees C. DO NOT touch the housing with bare-hands during its operation. Turn off the power and allow about 15 minutes for the unit to cool down before replacing or serving.
11. In the event of a serious operating problem, stop using the unit immediately. Never try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction.

12. Please contact the nearest authorized technical assistance center. Always use the same type spare parts.

13. DO NOT touch any wire during operation as high voltage may cause electric shock.

Warning:

1. To prevent or reduce the risk of electrical shock or fire, do not expose the unit to rain or moisture.

2. The housing and lenses must be replaced if they are visibly damaged.

Caution:

There are no user serviceable parts inside the unit. Do not open the housing or attempt any repairs yourself. In the unlikely event your unit may require service, please contact your nearest dealer.

Installation:

The fixture should be mounted via its Omega Quick Release Clamp bracket. Always ensure that the unit is firmly fixed to avoid vibration and slipping while operating and make sure that the structure to which you are attaching the unit is secure and is able to support a weight of 10 times of the fixtures weight. Always use a safety cable that can hold 12 times of the weight of the fixture when installing.

The equipment must be installed by professionals. It must be installed in a place where is out of the reach of people and no one can pass by or under it.

54-channel mode

Channel	Value	Function	
1	000-255	Red 0-100%	LED Group 1
2	000-255	Green 0-100%	
3	000-255	Blue 0-100%	
4	000-255	Red 0-100%	LED Group 2
5	000-255	Green 0-100%	
6	000-255	Blue 0-100%	
7	000-255	Red 0-100%	LED Group 3
8	000-255	Green 0-100%	
9	000-255	Blue 0-100%	
10	000-255	Red 0-100%	LED Group 4
11	000-255	Green 0-100%	
12	000-255	Blue 0-100%	
13	000-255	Red 0-100%	LED Group 5
14	000-255	Green 0-100%	
15	000-255	Blue 0-100%	
16	000-255	Red 0-100%	LED Group 6
17	000-255	Green 0-100%	
18	000-255	Blue 0-100%	
19	000-255	Red 0-100%	LED Group 7
20	000-255	Green 0-100%	
21	000-255	Blue 0-100%	
22	000-255	Red 0-100%	LED Group 8
23	000-255	Green 0-100%	
24	000-255	Blue 0-100%	
25	000-255	Red 0-100%	LED Group 9
26	000-255	Green 0-100%	
27	000-255	Blue 0-100%	

DMX CHART

5-channel mode

Channel	Value	Function
1	000-255	Red 0-100%
2	000-255	Green 0-100%
3	000-255	Blue 0-100%
4	000-255	Master Dimmer
5	000-255	Strobe with increasing speed 0-100%

13-channel mode

Channel	Value	Function
1	000-255	Master dimmer
2	000-255	Yellow 0-100%
3	000-255	Red 0-100%
4	000-255	Green 0-100%
5	000-255	Blue 0-100%
6	000-255	Strobe effect
7	000-255	Strobe with increasing speed 0-100%
8	000-255	Strobe duration
9	000-255	RGB internal programs
10	000-255	Increasing speed(0-100%) of RGB running
11	000-255	Auto run color change
12	000-255	Color presets(RGB mixing)
13	000-255	Auto Run direction(L-R/R-L)

Introduction

Thank you for selecting the STORMY 1200 RGB product. This versatile product can be used for a wide variety of effects:

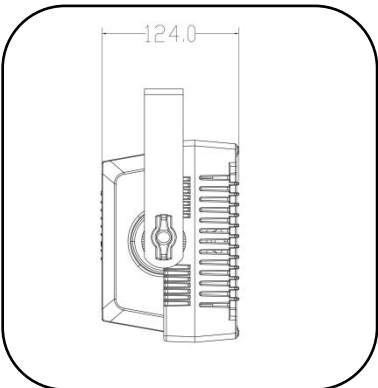
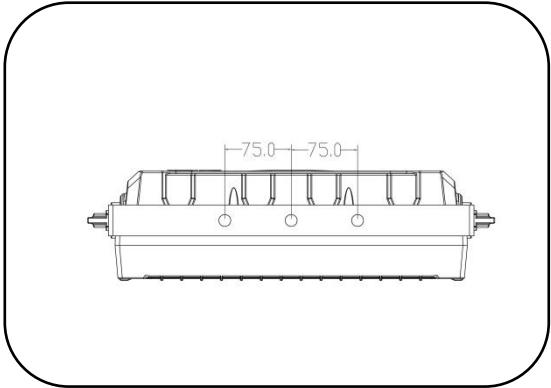
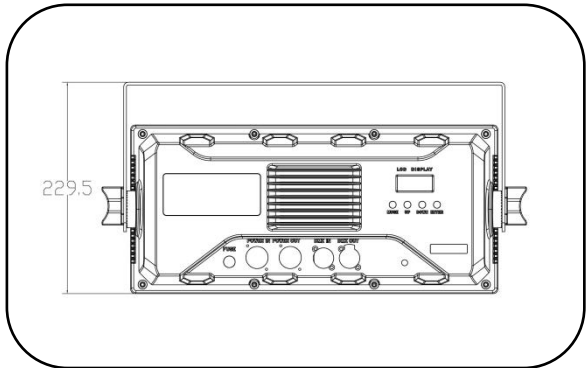
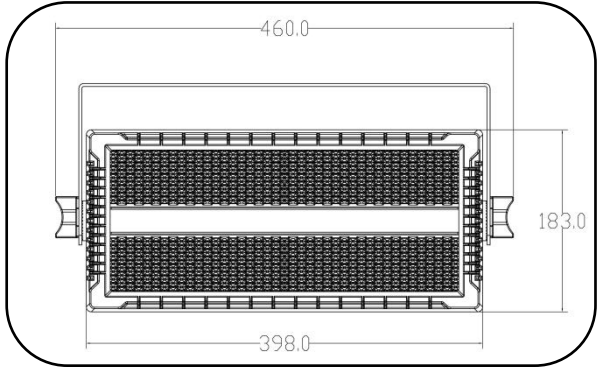
- Compact strobe fixture
- Compact blinder fixture
- Compact video pixel with 18 sections of individual control

As the fixture is IP20-rated, it is suitable for indoor applications, such as nightclub, church, concerts..

Before using the product for the first time

1. Read 'Safety information' before installing, operating or servicing the fixture.
2. Unpack and ensure that there is no transportation damage before using the fixture. Do not attempt to operate a damaged fixture.
3. Before operating, ensure that the voltage and frequency of the power supply match the power requirements of the fixture.
4. Obtain a power cable fitted with IP20 powerCON connector.
5. Obtain a DMX cable fitted with IP20 connector.

Fixture Overview

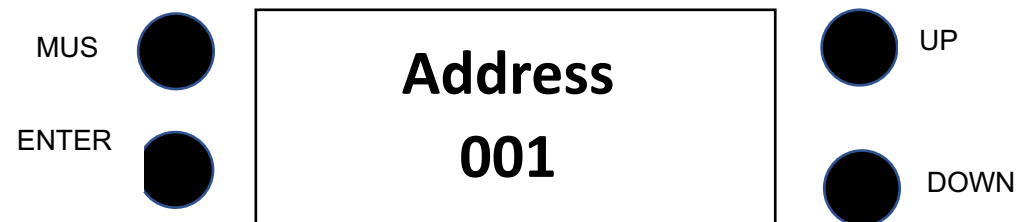


		Red (50-255)	
		Green (50-255)	
		Blue (50-255)	
		white (50-255)	
7	Manual	Dimmer	0-255
		Strobe	0-255
		Red	0-255
		Green	0-255
		Blue	0-255
		white	0-255
8	Info	Run Time	0000-9999
		Temperature	XXX
		Dev Version	Vx.xx

MENU

MENU			
1	Programmin g	Menu item	Description
2	Dmx Addresss	A000-A512	
3	Run Mode	D512	DMX
		Auto	Auto 0-20
			Speed 01 - 99
4	Chan Mode	5ch	
		13ch	
		54ch	
5	Display	Light off	light
			1Min
			2Min
			3Min
		Menu Back	light
			1Min
			2Min
			3Min
		Light Flash	Off
			On
6	Balance		Off/on

How to set unit



Function display:

Shows the various menus and the selected functions

Button:

MUSE	To select the programming functions
ENTER	To go forward to the selected functions
UP	To the previous functions
DOWN	To the next functions

MAINS IN:

Powercon connection from main power supply

DMX IN:

DMX512 link,use 3pin/5pin XLR cable to link the unit and DMX controller

DMX OUT:

DMX512 link,use 3pin/5pin XLR cable to link the next unit and output DMX signal.

MAIN FUNCTION

To select any of the given functions, press the MUSE button until the required function is showing on the display. Select the function by pressing the ENTER button again and the display will blink. Use the DOWN/UP buttons to change the mode.

Once the required mode has been selected, press the ENTER button to setup, to go back to the functions without any change press the MUSE button.

The main functions are shown overleaf:

DMX Functions

Enter MUSE mode, select DMX Functions, press the ENTER button to confirm, use the UP/DOWN button to select DMX Address, DMX Channel Mode or View DMX Value.

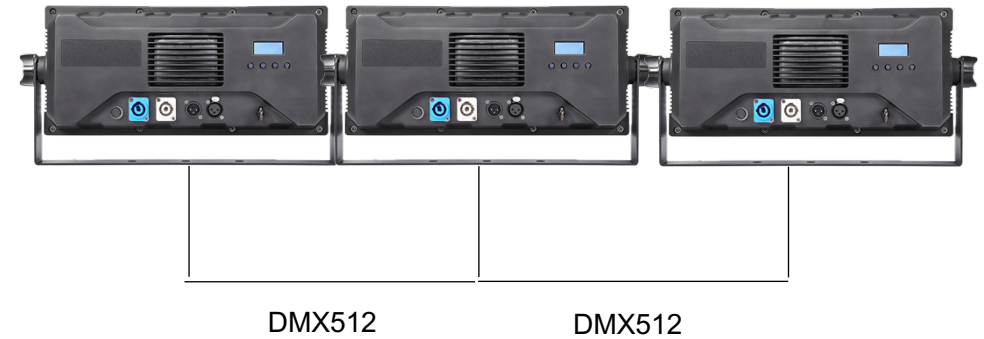
DMX Address

To select DMX Address, press the MUSE button to show the DMX ADDRESS on the display. Use the UP/DOWN button to adjust the address from 001 to 512, press the button to setup. Press the MUSE button back to the last menu or let the unit idle one minute to exit menu mode.

DMX Channel Mode

To select DMX Channel Mode, press the ENTER button to show the DMX CHANNEL MODE on the display. Use the UP/DOWN button to select different channels, and press the ENTER button to setup. Press the MUSE button back to the last menu or let the unit idle one minute to exit menu mode.

CONTROL BY DMX



1. If you using a controller with 5 pins DMX output, you need to use a 5 to 3 pin adapter-cable.
 2. The last units DMX cable has to be terminated with a 120 ohm 1/4W resistor between pin 2(DMX-) and pin 3(DMX+) of a 3-pin XLR-plug and plug it in the DMX-output of the last unit.
 3. Connect the unit together in a `daisy chain` by XLR plug from the output of the unit to the input of the next unit. The cable can not branched or split to a `Y` cable. 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.
 4. The DMX output and input connectors are pass-through to maintain the DMX circuit, when one of the units' power is disconnected.
 5. Each fixture unit needs to have an address set to receive the data sent by the controller. The address number is between 1-512.
 6. The end of the DMX 512 system should be terminated to reduce signal errors.
 7. 3 pin XLR connectors are more popular than 5 pin 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 (+),
Pin 4/Pin 5: Not used.