BARSHOW 1240RGBW

CE 🔻 ⏚ **IP20** t$_a$ 40°C t$_c$ 150°C

User Manual
KEEP THIS MANUAL FOR FUTURE NEEDS

1   *SAFETY INSTRUCTIONS*

> ⚠ **CAUTION**
> Becareful with your operations.With a dangerous voltage you cansuffer a dangerous electric shock when touching wires!

This device has left the factory in perfect condition. In order to maintain this condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this user 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.

If the device has been exposed to temperature changes due to environmental changes, do not switch it on immediately. The arising condensation could damage the device. Leave the device switched off until it has reached room temperature.

This device falls under protection-class I. Therefore it is essential that the device be earthed.

The electric connection must carry out by qualified person.

The device shall only be used with rate voltage and frequency.

Make sure that the available voltage is not higher than stated at the end of this manual.

Make sure the power cord is never crimped or damaged by sharp edges. If this would be the case, replacement of the cable must be done by an authorized dealer.

Always disconnect from the mains, when the device is not in use or before cleaning it. Only handle the power cord by the plug. Never pull out the plug by tugging the power cord.

During initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective, it should decrease gradually.

Please don't project the beam onto combustible substances.

Fixtures cannot be installed on combustible substances, keep more than 50cm distance with wall for smooth air flow, so there should be no shelter for fans and ventilation for heat radiation.

If the external flexible cable or cord of this luminaire is damaged, it shall be exclusively replaced by the manufacturer or his service agent or a similar qualified person in order to avoid a hazard.

9   *MAINTENANCE AND CLEANING*

The following points have to be considered during the inspection:

1) All screws for installing the devices or parts of the device have to be tightly connected and must not be corroded.

2) There must not be any deformations on the housing, color lenses, fixations and installation spots (ceiling, suspension, trussing).

3) Mechanically moved parts must not show any traces of wearing and must not rotate with unbalances.

4) The electric power supply cables must not show any damage, material fatigue or sediments.

Further instructions depending on the installation spot and usage have to be adhered by a skilled installer and any safety problems have to be removed.

> ⚠ **CAUTION**
> Disconnect from mains before starting maintenance operation

In order to make the lights in good condition and extend the life time, we suggest a regular cleaning to the lights.

1) Clean the inside and outside lens each week to avoid the weakness of the lights due to accumulation of dust.

2) Clean the fan each week.

3) A detailed electric check by approved electrical engineer each three month, make sure that the circuit contacts are in good condition, prevent the poor contact of circuit from overheating.

We recommend a frequent cleaning of the device. Please use a moist, lint- free cloth. Never use alcohol or solvents.

There are no serviceable parts inside the device. Please refer to the instructions under "Installation instructions".
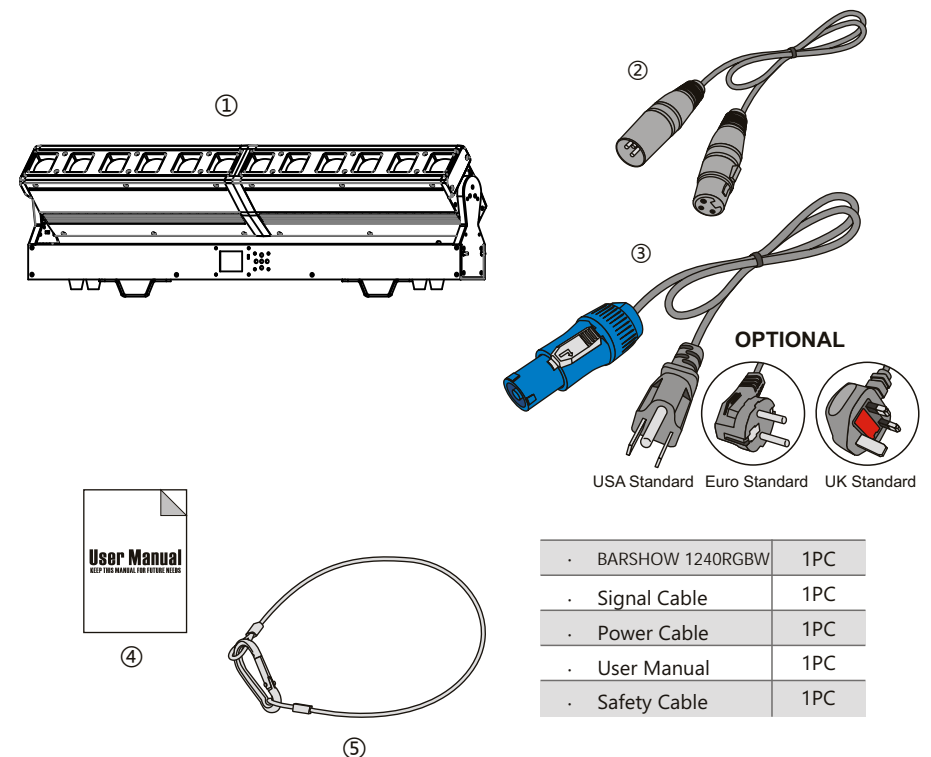
Should you need any spare parts, please order genuine parts from your local dealer.

(60CH)	Function	value
1	Tilt	0 - 255
2	TiltFine	0 - 255
3	Tilt-Speed	0 - 255
4	Zoom1	0 - 255
5	Zoom2	0 - 255
6	Dimmer	0 - 255
7	Strobe	0 - 255
8	LED1 Red	0 - 255
9	LED1 Green	0 - 255
10	LED1 Blue	0 - 255
11	LED1 White	0 - 255
12	LED2 Red	0 - 255
13	LED2 Green	0 - 255
14	LED2 Blue	0 - 255
15	LED2 White	0 - 255
... ...	... ...	... ...
52	LED12 Red	0 - 255
53	LED12 Green	0 - 255
54	LED12 Blue	0 - 255
55	LED12 White	0 - 255
56	Mode	0 - 255
57	Speed	0 - 255
58	BackColor	0 - 255
59	BackColor Dimmer	0 - 255
60	Reset　When the parameter value is 250-255, the whole machine is reset. The parameter value of the console must be pulled below 10 first, and then pushed to 150-255 to be useful. The parameter value of 000-149 is useless and cannot be reset.	0 - 255

2 UNPACKING

The BARSHOW 1240RGBW is an ultra high power LED based moving head beam bar with smart and compact stylish fireproof housing with a smooth, fast and quiet TILT movement. The zoom angle is 4°-40°(two parts zoomable individually) for each LED with sharp beam effect and pure even coverage. It features 12*40W OSRAM 4-IN-1 RGBW LED sources with pixel mapping capability which not only allows you to create an endless range of color variations, but also to use each LED of the array as a pixel in order to draw all kinds of graphic images that change dynamically both in shape and color. It provides variable speed shutter/strobe effect, virtual color macro effect, dynamic patterns, static patterns to it's users for easy operation. The 2*1/4 turn fastening omega clamps. The fixture supports DMX, RDM (Remote Device Management). Two fixtures can be joined together seamlessly with the specific parts.

The fixture is tuned with proper LED refresh rate for flicker free operation for TV and FILM. It's a perfect option for large scale live concerts, TV productions, road shows, clubs/bars, weddings, etc.

①

②

③

OPTIONAL

USA Standard　Euro Standard　UK Standard

User Manual
KEEP THIS MANUAL FOR FUTURE NEEDS

④

⑤

·	BARSHOW 1240RGBW	1PC
·	Signal Cable	1PC
·	Power Cable	1PC
·	User Manual	1PC
·	Safety Cable	1PC

3 FEATURES & SPECIFICATIONS

Features

12*OSRAM LE RTDUW S2WN 40W LED

12PCS high efficiency acrylic lens

4°-40°zoom angle

Two parts zoomable individually

TILT movement: 230°(8/16 bit)

Fast, quiet, smooth and precise 3-phase motors

Smooth, fast and precise resolution for TILT movement with low noise operation

Scan position memory, auto reposition after unexpected movement

Pixel mapping capability with each LEDs controllable individually

Sophisticated 4 colors RGBW mixed

Sharp beam effect

Preset 20 static patterns

Preset 40 dynamic patterns with variable speed

Preset 11 dynamic color macro with variable speed

Preset foreground color options for PATTERNs

Preset background color options for PATTERNs, with 0-100% linear dimmer

LED mirror effect

1-25T/sec high speed shutter/strobe effect with variable speed

Preset pulse strobe effect with variable speed

Random strobe effect with fast/mid/slow speed

0-100% Smooth linear LED dimming with fine control

16/60 DMX channels USITT DMX-512

DMX512, master-slave, sound activated or auto operation

DMX recorder and edit function integrated

RDM available (Remote Device Management)

Shielded input signal protection for stable signal without interference

3-Pin XLR connectors IN/OUT

1.8" TFT LCD display

English/Chinese menu

5 Control buttons

180°Reversible for LCD display

Display auto OFF

Advanced cooling system integrated aluminum and copper with liquid

Constant temperature readout and management function

Over temperature protection management

DMX CHANNELS

(16CH)	Function	value
1	Tilt	0 - 255
2	TiltFine	0 - 255
3	Tilt-Speed	0 - 255
4	Zoom1	0 - 255
5	Zoom2	0 - 255
6	Dimmer	0 - 255
7	Strobe	0 - 255
8	Red	0 - 255
9	Green	0 - 255
10	Blue	0 - 255
11	White	0 - 255
12	Mode	0 - 255
13	Speed	0 - 255
14	BackColor	0 - 255
15	BackColor Dimmer	0 - 255
16	Reset When the parameter value is 150-255, the whole machine is reset. The parameter value of the console must be pulled below 10 first, and then pushed to 150-255 to be useful. The parameter value of 000-149 is useless and cannot be reset.	0 - 255

Factory setting	Show Please enter password! Modify up or down to 138 , and then press the enter key to enter the factory settings.	X-axis calibration	Modify the parameter up or down (range 000-255), press the ENTER key to save, the default is 128.
		Y-axis calibration	Modify the parameter up or down (range 000-255), press the ENTER key to save, the default is 128.
		Focus calibration	Modify the parameter up or down (range 000-255), press the ENTER key to save, the default is 128.
		Red	Modify the red lamp bead current up or down (032-255), press the ENTER key to save, the default is 220.
		Green	Modify the green LED current (032-255) up or down, press the ENTER key to save, the default is 220.
		Blue	Modify the blue LED current (032-255) up or down, press the ENTER key to save, the default is 220.
		White	Modify the white lamp bead current up or down (032-255), press ENTER to save, the default is 220.
		Logo	Select 000 / 001 up or down, press ENTER to save, the default is 000.
		Temperature	Modify the temperature parameter up or down (range 40-70), press the ENTER key to save, the default is 065.
		Temperature-fan	Select to turn off/on the temperature-fan control up or down, and press the ENTER key to save, and it is turned on by default.

Electronic supply with active PFC

AC100-240V 50/60Hz

PowerCON IN/OUT with swtich and fuse

500W Power consumption

Operating positions: all (device on floor or fixed to a support)

-25℃ to 45℃ ambient temperature

IP20 protection rating

N.W.: 14.3kg

G.W.: 16.4kg

Product Dimensions: 100(D)*1008(W)*266(H)mm

Packing Dimensions: 185(D)*1195(W)*360(H)mm
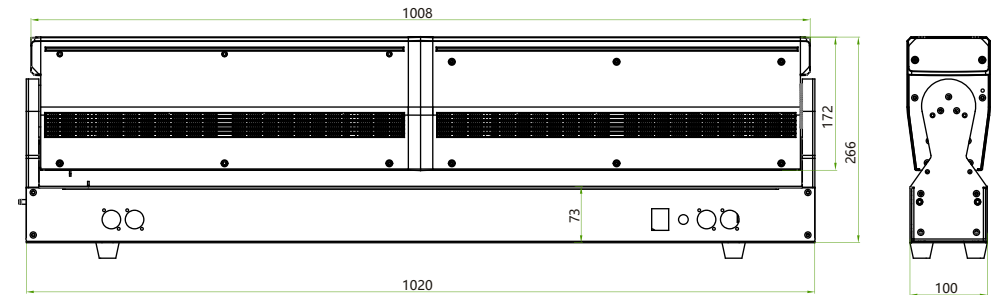
4 OPERATION INSTRUCTIONS

· The BARSHOW 1240RGBW is an ultra high power LED based moving head beam bar.
· Don't turn on the fixture if it's been through severe temperature difference like after transportation because it might damage the light due to the environment changes. So make sure to operate the fixture until it is in normal temperature.
· This light should be keep away from strong shaking during any transportation or movement.
· Don't pull up the light by only the head, or it might cause damages to the mechanical parts.
· Don't expose the fixture in overheat, moisture or environment with too much dust when installing it. And don't lay any power cables on the floor. Or it might cause electronic shock to the people.
· Make sure the installation place is in good safety condition before installing the fixture.
· Make sure to put the safety chain and check whether the screws are screwed properly when installing the fixture.
· Make sure the lens are in good condition. It's recommended to replace the units if there are any damages or severe scratch.
· Make sure the fixture is operated by qualified personnel who knows the fixture before using.
· Keep the original packages if any second shipment is needed.
· Don't try to change the fixtures without any instruction by the manufacturer or the appointed repairing agencies.
· It is not in warranty range if there are any malfunctions from not following the user manual to operate or any illegal operation, like shock short circuit, electronic shock, lamp broke, etc.

main menu	Secondary menu	Menu function description
System settings	DMX address	Modify the DMX address code up or down (the address code can be selected in the range of 001-512), and the ENTER key is saved, the default is 001.
	Encoder	Up or down to modify the encoder on/off, ENTER key to save, the default is on.
	X reverse	Modify X up or down to turn on/off, ENTER key to save, default off.
	Y reverse	Modify Y up or down to turn on/off, ENTER key to save, default off.
Operating mode	operating mode	Up or down to select the operation mode DMX/Voice/Auto, the ENTER key to save, the default DMX.
	Channel selection	Select channel 16A/58B up or down, press ENTER to save, the default is 16A.
Manual control	X	Modify the X motor running parameter value up or down (adjustable range 000-255), press the ENTER key to save, the default is 000.
	Y	Modify the Y motor running parameter value up or down (adjustable range 000-255), press the ENTER key to save, the default is 128.
	Focusing	Modify the operating parameter value of the focusing motor up or down (adjustable range 000-255), press the ENTER key to save, the default is 255.
	Mode	Modify the value of the mode parameter up or down (adjustable range 000-255), press the ENTER key to save, the default is 000.
	Strobe	Modify the strobe parameter value up or down (adjustable range 000-255), press the ENTER key to save, the default is 000.
	Speed	Modify the speed parameter value up or down (adjustable range 000-255), press the ENTER key to save, the default is 000.
	Red	Modify the brightness of the red lamp beads up or down (adjustable range 000-255), press the ENTER key to save, the default is 255.
	Green	Modify the brightness of the green lamp beads up or down (adjustable range 000-255), press the ENTER key to save, the default is 255.
	Blue	Modify the brightness of the blue lamp beads up or down (adjustable range 000-255), press the ENTER key to save, the default is 255.
	White	Modify the brightness of the white lamp beads up or down (adjustable range 000-255), press the ENTER key to save, the default is 255.
Display setting	Language selection	Select Chinese/EN (English) up or down, press ENTER to save, the default is Chinese.
	Inverted settings	Select up or down to turn off/on the inverted display setting, press the ENTER key to save, and the default is off.
	Screen protector	Select to turn off/on the screen saver up or down, press the ENTER key to save, and it is turned on by default.
	Software version	03VA program identification code, which cannot be modified.

DMX Output
3-Pin XLR Socket

DMX Input
3-Pin XLR Socket

1:Ground
2:Data(-)
3:Data(+)

COMMON

DMX+

DMX-

DMX512 OUT
3-PIN XLR

DMX512 IN
3-PIN XLR

For installations where the DMX cable has to run a long distance or is in an electrically noisy environment, such as in a discotheque, it is recommended to use a DMX terminator. This helps in preventing corruption of the digital control signal by electrical noise. The DMX terminator is simply an XLR plug with a 120 Ω resistor connected between pins 2 and 3,which is then plugged into the output XLR socket of the last fixture in the chain. Please see illustrations below.

120 Ω

PIN3
PIN2

7 MENU OPERATIONS

USB

LED DISPLAY

UP

INVERT

ENTER

DOWN

ESC

5 INSTALLATIONS

Cautions: For added protection mount the fixtures in areas outside walking paths, seating areas, or in areas were the fixture might be reached by unauthorized personnel.

Before mounting the fixture to any surface, make sure that the installation area can hold a minimum point load of 10 times the device's weight.

Fixture installation must always be secured with a secondary safety attachment, such as an appropriate safety cable.

Never stand directly below the device when mounting, removing, or servicing the fixture.
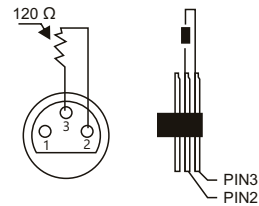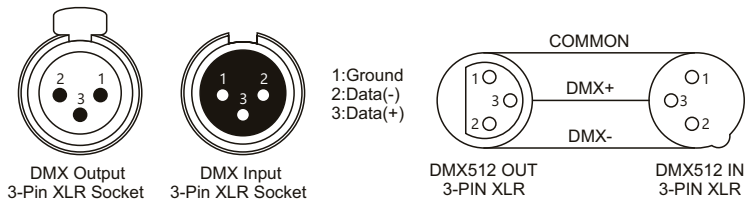
from a ceiling, or set on a flat level surface (see illustration below). Be sure this fixture is kept at least 0.5m (1.5 ft) away from any flammable materials (decoration etc.).

Always use and install the supplied safety cable as a safety measure to prevent accidental damage and/or injury in the event the clamp fails.

Mounting points: Overhead mounting requires extensive experience, including amongst others calculating working load limits, a fine knowledge of the installation material being used, and periodic safety inspection of all installation material and the fixture. If you lack these qualifications, do not attempt the installation yourself. Improper installation can result in bodily injury.
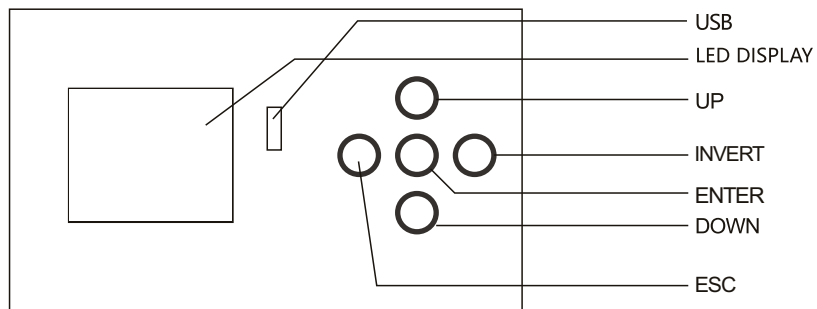
Be sure to complete all rigging and installation procedures before connecting the main power cord to the appropriate wall outlet.
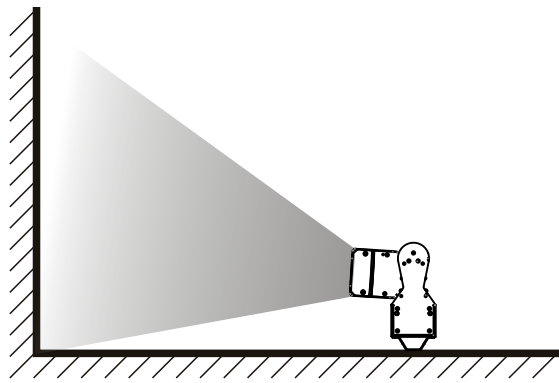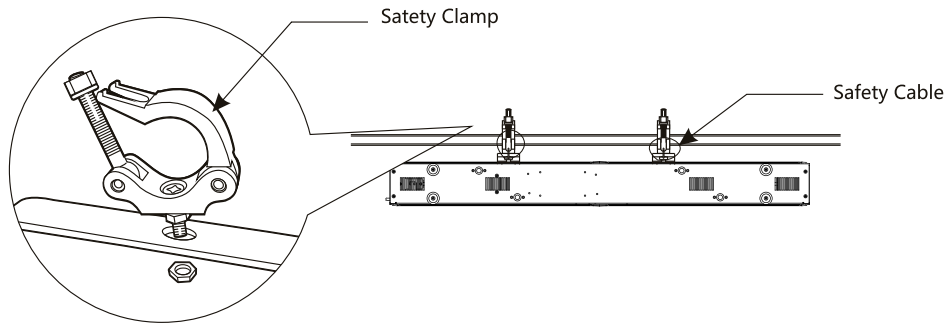
Clamp Mounting: The BARSHOW 1240RGBW provides a unique mounting bracket assembly that integrates the bottom of the base, and the safety cable rigging point in one unit (see the illustration below). When mounting this fixture to truss be sure to secure an appropriately rated clamp to the included omega bracket using a M10 screw fitted through the center hole of the "omega bracket". As an added safety measure be sure to attached at least one properly rated safety cable to the fixture using on of the fixture using on of the safety cable rigging point.

Satety Clamp

Safety Cable

Floor projection

Regardless of the rigging option you choose for your BARSHOW 1240RGBW , always be sure to secure your fixture with a safety cable. The fixture provides a built-in rigging point for a safety cable on the hanging bracket as illustrated above. Be sure to only use the designated rigging point for the safety cable and never secure a safety cable to a carrying handle.

6 DMX-512 CONTROL CONNECTIONS

Connect the provided XLR cable to the female 3-pin XLR output of your controller and the other side to the male 3-pin XLR input of the moving head. You can chain multiple

Moving head together through serial linking. The cable needed should be two core, screened cable with XLR input and output connectors. Please refer to the diagram below.

DMX-512 connection with DMX terminator

ON

DMX IN   DMX OUT   OFF   FUSE/5A   POWER IN
AC100-240V 50/60Hz   POWER OUT

DMX IN   POWER IN