10 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.

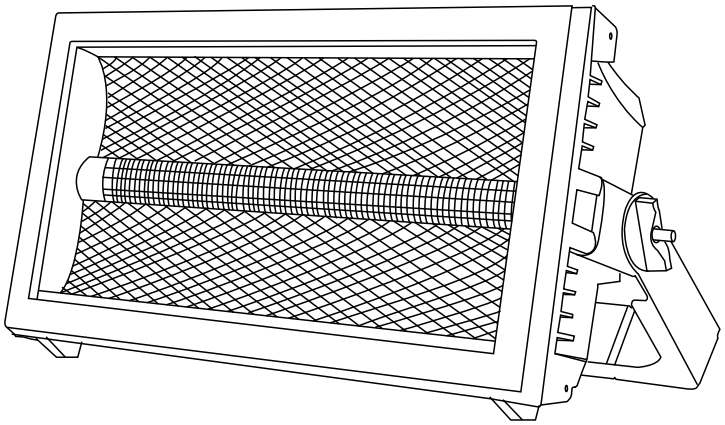
CAUTION
Disconnect from mains before starting maintenance operation.

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.

STECHNICS

STROBE 230



IP20 t_a 40℃ t_c 150℃

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.

	Strobe behavior = Xenon (menu override, setting unaffected by power offon)	60	
	No function	61–255	
6	**FX Select** Effect Select （See Appendix FX, "preprogrammed effect.""）	0–255	
7	**FX adjustment** Synchronous speed adjust, zero to maximum	0–255	
8	No function	0–255	

4-DMX channel mode

CH	Function	Value	Introductions
1	**Beam flash intensity**		Snap
	blackout	0	
	Minimum to maximum intensity	1–255	
2	**Beam flash duration**		Snap
	7→650 ms	0–255	
3	**Beam flash rate**		Snap
	0.289→16.67 Hz	0–255	
4	Beam effect		Snap
	No effect	0–5	
	Ramp up	6–42	
	Ramp down	43–85	
	Ramp up, Ramp down	86–128	
	Random	129–171	
	Lightning	172–214	
	Spikes (flash over low light)	215–255	

3-DMX channel mode

3 CH	Function	Value	Introductions
1	**Beam flash intensity**		Snap
	blackout	0	
	Minimum to maximum intensity	1–255	
2	**Beam flash duration**		Snap
	7→650 ms	0–255	
3	**Beam flash rate**		Snap
	0.289→16.67 Hz	0–255	

9 DMX CHANNELS

14-DMX Model (Extend)

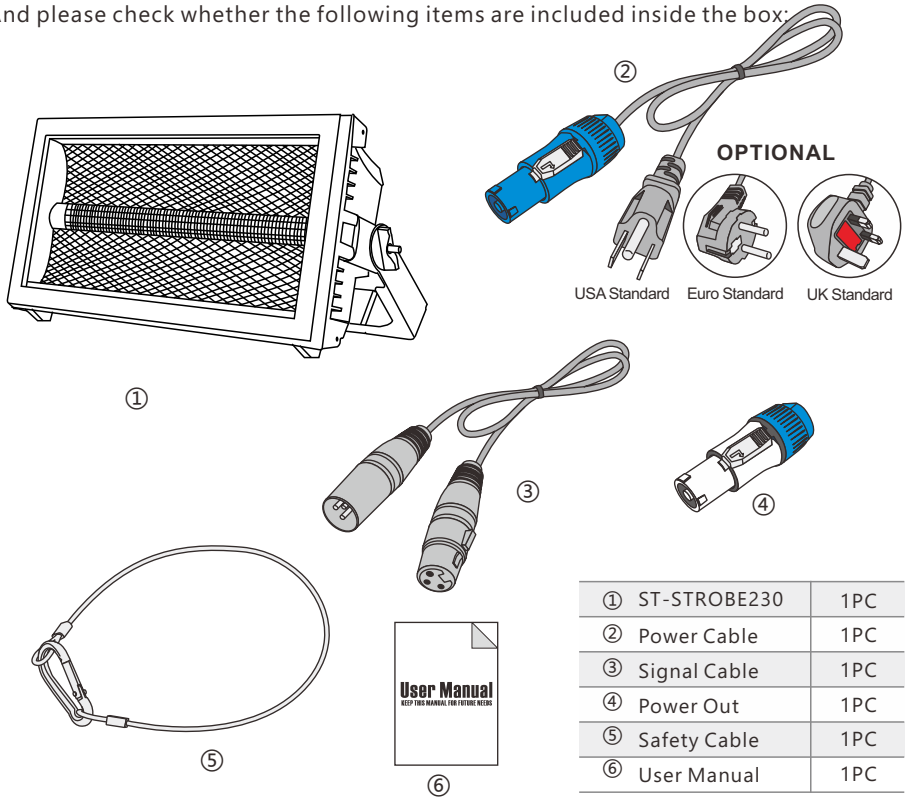
CH	Function	Value	Introductions
1	**Beam flash intensity**		
	blackout	0	
	Minimum to maximum intensity	1-255	
2	**Beam flash duration**		
	7→650 ms	0-255	
3	**Beam flash rate**		
	0hz	0-5	Snap
	0.289→16.67 Hz	6-255	Snap
4	**Beam effect**		
	No effect	0-5	
	Ramp up	6-42	
	Ramp down	43-85	Premise: 3 dmx channels
	Ramp up, Ramp down	86-128	greater than 5 dmx channels
	Random	129-171	
	Lightning	172-214	
	Spikes (flash over low light)	215-255	
5	**Control / setting**		
	No function	0-9	
	Reset the entire fixture - 5 seconds	10-14	
	No function	15-22	
	Linear dimming curve - 1 sec. (menu override, setting unaffected by power off/on)	23	
	Square law dimming curve - 1 sec. (menu override, factory default setting, setting unaffected by power off/on)	24	
	Inverse square law dimming curve - 1 sec. (menu override, setting unaffected by power off/on)	25	
	S-curve dimming curve - 1 sec. (menu override, setting unaffected by power off/on)	26	
	No function	27-51	
	Turn on control panel display - 1 sec.	52	
	Turn off control panel display - 1 sec	53	
	Regulated fans speed, fixed light output intensity = full (default setting, menu override, setting unaffected by power off/on)	54	
	Fixed fan speed = full, regulated light output intensity (menu override, setting unaffected by power off/on)	55	
	Fixed fan speed = medium, regulated light output intensity (menu override, setting unaffected by power off/on)	56	
	Fixed fan speed = low, regulated light output intensity (menu override, setting unaffected by power off/on)	57	
	Fixed fan speed = ultra low, regulated light output intensity (menu override, setting unaffected by power off/on)	58	
	Strobe behavior = LED (menu override, setting unaffected by power off/on)	59	

2 UNPACKING

Thank you for choosing our ST-STROBE230. For your own safety, please read this manual before installing the device. This manual covers the important information on installation and applications. Please install and operate the fixture with following instructions. Meanwhile, please keep this manual well for future needs.

The ST-STROBE230 is made of a new type of high temperature strength of engineering plastics and cast aluminum casing with nice outlook. The fixture is designed and
manufactured strictly following CE standards, complying with international standard DMX512 protocol. It's available independently controlled and linkable with each other for operation. And it is applicable for large-scale live performances, theater, studio, nightclubs and discos.

The ST-STROBE230 adopts 228*3W cold white LEDs and 64*0.6W 3-in-1 RGB LEDs, 5700K, which features high brightness and stability. Please carefully unpack it when you receive the fixture and check whether it is damaged during the transportation. And please check whether the following items are included inside the box:



①	ST-STROBE230	1PC
②	Power Cable	1PC
③	Signal Cable	1PC
④	Power Out	1PC
⑤	Safety Cable	1PC
⑥	User Manual	1PC

3 FEATURES & SPECIFICATIONS

Features

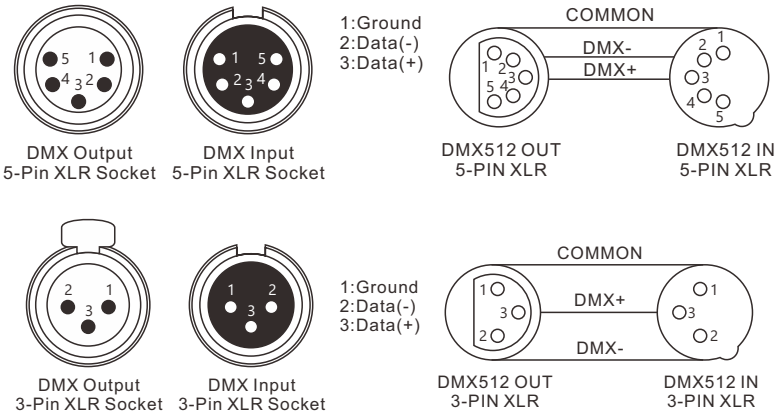
- 228*3W cold white LEDs, 5700K
- 64*0.6W 3-in-1 RGB LEDs
- 50,000 hours lifespan and low power consumption
- Classic reflector for backlight
- Variable speed multi directional shutter/strobe effect
- Strobe intensity adjustable 0-100%
- Strobe duration adjustable 7-650ms
- Strobe rate adjustable 0.289-16.67Hz
- 0-100% Linear LED dimmer
- Flicker free
- 4 Dimmer curves available (linear, square law, inverse square law, S-curve)
- Built-in pre-programmed effects including beam effect, backlight effect
- and combination effect
- Multi backlight control options (strobe, dimming, preset colors, color
- rotation, random colors)
- 3/4/14 DMX channel modes USITT DMX-512
- RDM, DMX512, master-slave and sound activated controllable or auto
- operation
- LCD display with 4 control buttons
- Powercon IN/OUT
- 3-Pin&5-Pin XLR connectors IN/OUT
- Forced air cooling system with user definable fan settings
- -25°C -45°C ambient temperature
- Adjustable high tension metal bracket with two 1/4 turn fastener points
- and a M12 holes
- Another two 1/4 turn fastener points available on the body
- Ip20 protection rate

Specifications

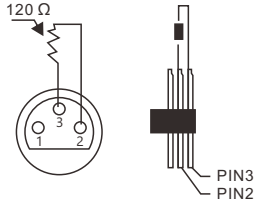
Input Voltage:	AC100-240V 50/60Hz
LED Quantities:	228*3W cold white LEDs / 64*0.6W 3-in-1 RGB LEDs
Control Signal:	DMX512, RDM, master-slave and sound activated or auto operation
Control Channel:	3/4/14 DMX channel modes
Power Consumption:	740W
Dimensions:	245(D)*425(W)*240(H)mm
Packing Dimensions:	230(D)*490(W)*320(H)mm
Net Weight:	6.96kg
Gross Weight:	8.28kg

8 MENU OPERATIONS

MENU	DMX ADDRESS	001-512	
	CONTROL MODE	EXTENDED	
		3 CHANNEL	
		4 CHANNEL	
	PERSONALITY	DIMMER CURVE	INV SQUARE LAW
			SQVARE LAW
			S-CURVE
		VIDEO TRACKING	LED
			XENON
		COOL MODE	REGULATE FANS
			CONSTANT FAN HIGH
			CONSTANT FAN MID
			CONSTANT FAN LOW
			CONSTANT FAN ULOW
		DMX RESET	OFF
			ON
		DISPLAY	DISPLAY SLEEP
			DISPLAY NO SLEEP
		ERROR MODE	SILENT
			NORMAL
		ART NET	OFF
			ON
		LANGUAGE	ENGLISH
	DEFAULT SETTINGS	FACTORY DEFALT	LOAD
	INFORMATION	POWER ON TIME	
		SW VERSION	T08IA-STI-L006
		RDM UID	04D8:05DDFF38
		FAN SPEEDS	BASE FAN 1RPM 4500
			BASE FAN 2RPM 4500
			BASE FAN 3RPM 4500
			BASE FAN 4RPM 4500
		TEMPERATURES	LED Tempstate
	DMX LIVE		
	TEST	LEDS	
	MANUAL CONTROL		
	SERVICE	ERROR LIST	NO ERROR
		FAN CLEAN	ON
			OFF

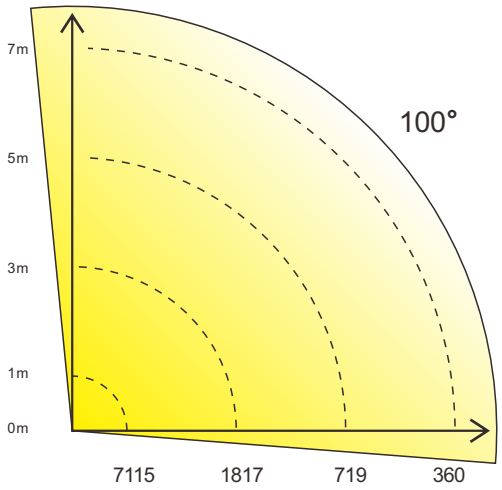


For installations where the DMX cable has to run a long distance or is in an electrically noisy environment, such as in a discotheque, it is recommended to use a DMX terminator. This helps in preventing corruption of the digital control signal by electrical noise. The DMX terminator is simply an XLR 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.



4 PHOTOMETRIC DATA

Photometric Beam Angle Data *100° Beam Angle LUX× 0.0929=FC*



5 OPERATION INSTRUCTIONS

- The ST-STROBE230 is for on-site decoration purpose.
- 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.

6 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 ST-STROBE230 provides a unique mounting bracket assembly, 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 handle using a M10 screw fitted through the center hole of the handle. As an added

safety measure be sure to attached at least one properly rated safety cable to the fixture using on of the safety cable rigging point.

Regardless of the rigging option you choose for your ST-STROBE230, 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.

7 DMX-512 CONTROL CONNECTIONS

Connect the provided XLR cable to the female 3/5-pin XLR output of your controller and the other side to the male 3-pin XLR input of the strobe. You can chain multiple Strobe 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