

RGB Strobe Moving Head Light (Waterproof)



User Manual

Note: This manual include important information on how to install and use it safely. Please read it carefully before install and operate as required. At the same time, please keep this manual properly for emergencies.

1 SAFETY INSTRUCTIONS



WARNING: READ THE SAFETY PRECAUTIONS IN THIS SECTION BEFORE INSTALLING, POWERING, OPERATING OR SERVING THIS PRODUCT.

warn! Shaking head strobe product according to the risk level of EN 62471. Do not view the light output with optical instruments or any equipment that may concentrate the beam.

This light fixture is for professional use only - not for home use. Fixtures must be installed by a qualified technician. Installation safety is the responsibility of the installer. There is a risk of serious injury or risk to the light fixture due to fire, electric shock and falling. This luminaire produces a powerful, concentrated light that can create a fire hazard or cause eye injury

If the following safety precautions are not followed.

When installing, operating or servicing lamps, please comply with all applicable local laws, rules and regulations

Electric shock protection

- Before performing any installation or maintenance work, disconnect from AC power when the fixture is not in use.



- Make sure the light fixture is electrically connected to ground (ground).
- Connect AC power to the luminaire only at 100 - 240 VAC, 50/60 Hz.
- Use only AC power that complies with local building and electrical codes, with overload and ground fault (ground fault) protection.
- Before using the luminaire, check that all power distribution equipment and cables are in good condition and evaluate the current requirements of all connected equipment.



- If the power cord, power plug or any seals, housing or other parts are damaged, damaged, deformed, wet or showing signs of overheating, immediately disconnect the power source. Do not reuse the power supply until repairs are complete, and replace any defective parts with new ones.
- Cables used to connect the product to AC power must be a minimum wire size of 14 AWG or 1.5 mm² and have a minimum heat resistance of 90°C (194°F). It must have three conductors with an outer cable diameter of 5 - 15 mm (0.2 - 0.6 in). In the U.S. and Canada, cables must be UL/CSA certified,

using strict, type SJT or equivalent. In the EU, the cable must be type H05VV-F or equivalent.

- Only connect cables with Neutrik PowerCON TRUE1 NAC3FX-W female connectors to the light's power input socket.

Prevent burns and fires



- Do not operate the light fixture if the ambient temperature (T_a) exceeds 40°C (104°F).
- The exterior of the luminaire becomes hot during use. After 5 minutes of operation, the expected surface temperature is 70°C (158°F) and the maximum steady state is 80°C (176°F). Avoid contact with people and materials. Allow the fixture to cool for at least 10 minutes before handling.
- Keep all combustible materials (eg: cloth, wood, paper) at least 20 cm (8 inches) away from light fixtures.
- Keep flammable materials (eg volatile liquids, pyrotechnics, fuels of any type) away from fixtures.
- Make sure there is unobstructed airflow around the fixture.
- Do not illuminate surfaces within 1 meter (3 feet 4 inches) of the shaking head strobe.
- Do not expose the front glass to sunlight or other strong light from any angle. The lens can focus the sun's rays inside the luminaire, creating a potential fire hazard.
- Do not attempt to bypass thermostat switches or fuses.
- Do not attach filters, masks or other materials to any lenses or other optical components.

prevent eye injury



- Do not view the LEDs with magnifying glasses, telescopes, binoculars or similar optical instruments in order to concentrate the light output.
- Do not operate the luminaire with missing or damaged covers, shields or any optics.
- To reduce the risk of eye irritation or injury, do not always disconnect the light fixture when not in use, and provide well-lit conditions to reduce the pupil diameter of those working on or near the light fixture.

protect from harm

- When in use, securely fasten the luminaire to a fixed surface or rigging structure. The luminaire cannot be moved during installation.
- Block the work area under the work area and work from a stable platform when installing, servicing or moving light fixtures.
- Ensure that all fasteners used to install the clamps are grade 8.8 minimum. Use unworn self-locking nuts on bolts and machine screws.
- When hanging light fixtures, make sure that the support structure and all hardware used can withstand at least 10 times the weight of the equipment being supported.
- In all truss mounted installations where the clamps are not suspended vertically in "free hanging mode", use rigging clamps that completely surround the truss chords and use grade 8.8 strength bolts to screw the clamps directly to the clamp's mounting brackets, since lock nut. Do not use any type of clamp that does not completely surround the truss chords, nor do you use omega brackets or any other intermediate rigging hardware.
- If installing the luminaire in a location that could cause injury or a fall, secure the safety cable to the fixed anchor points and to the safety cable anchorage points on the fixture and noted in this manual so that the safety cable is at the main connection Grab the fixture when it fails. Do not use other parts of the luminaire as safety cable connection points.
- Check that all exterior covers and rigging hardware are securely fastened.

First time use:

warn! Read "Safety Information" before installing, supplying power, operating or servicing

important! A moving head strobe is a solid fixture, but it must be protected from the environment

Factors such as physical shock and vibration during transportation and storage.

Before powering up,

- Read the "Safety Information" carefully
- Check that the local AC power source is within the power supply voltage and frequency range of the luminaire.
- Check that the power input cable is "shock proof"

alternating current



warn! Please read the Safety Information before connecting the strobe to AC power.

Warning ! To prevent electric shock, the shaking head strobe must be grounded (grounded). This distribution circuit must be equipped with fuses or circuit breakers and ground fault (earth fault) protection.

warn! The socket or external power switch is used to power the moving head strobe and must be located near the light fixture so that the light fixture can be easily disconnected from the power source.



important! Therefore, do not use an external dimming system to power the moving head strobe, it may cause damage to the light fixture not covered by the product warranty.

voltage



Warning! Check the voltage range specified on the luminaire serial number label

Match the local AC mains voltage before energizing the luminaire.

The moving head strobe has an auto-regulated power supply that accepts a nominal mains power supply of 100-240 VAC, 50/60Hz. Do not apply AC power of any other voltage or frequency to the fixture. During normal use, shaking head strobes can generate significant peak currents. To avoid overloading, allow a 16 or 20 amp branch circuit per fixture to run at full power. Two lamps may be placed on a 16 amp branch circuit, but the type of MCB (miniature circuit breaker) must also be considered: 16 Type C meets most needs (IEC 60898 / UL489 / CSA C22.2 No. 5).

physical installation



warn! Read "Safety Information" before installing, supplying power, operating or servicing

Warning ! Check that all surfaces to be illuminated are at least 1 m (3 ft 4 in) away from light fixtures. Combustible materials (wood, fabric, paper, etc.) are at least 20 cm (8 in.) away from light fixtures. There is free airflow around fixtures and no flammable items nearby.

warn! Do not expose the front glass to sunlight or other strong light.

If light from the sun or other fixtures hits the front glass directly or at an angle, a Fire hazard and damage to the interior of the luminaire or the edge of the front glass. Strong sunlight can

Damage in seconds! Cover the front glass before the fixture is exposed to sunlight or strong light

Or point the light fixture in the opposite direction of the light source.

Tilt adjustment

The moving head strobe mounting bracket can adjust and lock the tilt angle of the light fixture. To adjust tilt:

1. Loosen the two tilt adjustment wheels until the teeth are tilted

The adjustment locking mechanism disengages and you are free to tilt the light fixture. If you can feel resistance, you may not be loosening the wheel enough when you try to tilt the clamp, and you may damage the teeth in the adjustment mechanism.

2. Adjust the aiming, then retighten both wheels by hand. Tighten but do not use a tool to tighten, or damage may occur. The first few times you adjust the tilt, small particles of paint or metal rubbing may become visible. This is not a malfunction and will not cause any problems.

Fix the light fixture on a flat surface

The shaking head strobe can be fixed on the stage or other flat surface.

warn! The support surface must be hard and flat, otherwise the ventilation holes in the base may become blocked, which can lead to overheating. Secure the light fixture securely. Do not place it on a surface or where it may move or tip over.



Fix the shaking head strobe on a flat surface

1. Check that the surface can withstand at least 10 times the weight of all fixtures and equipment mounted on it.
2. Use at least one grade 8.8 M12 bolt to fasten the fixture's mounting bracket to the surface.
3. If the main attachment fails, it may fall and cause injury or damage, please attach an approved attachment.

Mount the clamp on the truss

The shaking head strobe can be clamped to a truss or similar rigging structure in any direction. When mounted on a truss:

- Check that the rigging structure can support at least 10 times the weight of all fixtures and equipment installed on it.
- Check that all rigging hardware is intact and determined by weight.
- Block access under the work area.
- Work from a stable platform.
- Use approved safety cables to prevent spreader hardware failure.

Depending on the orientation of the clamps, you can install the clamps on the truss using one of the following methods.

Truss mounted in any orientation

Fixtures to hang from rigging structures such as trusses in any orientation:

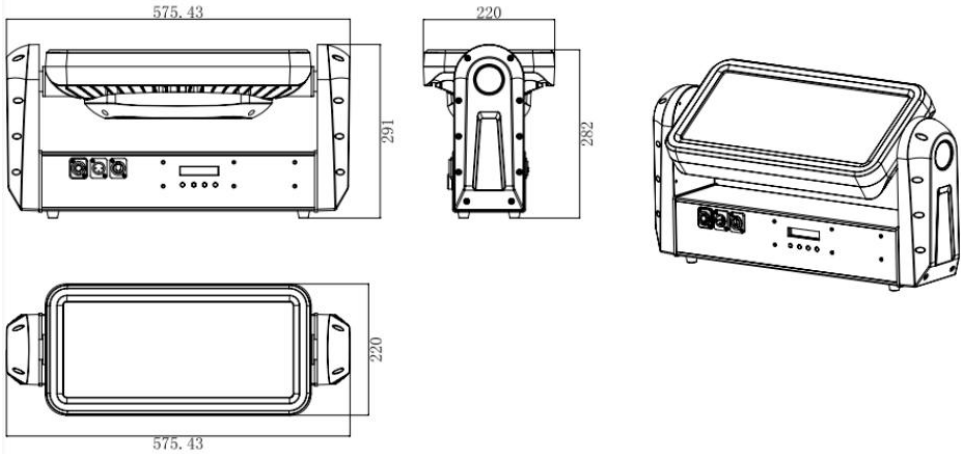
1. Attach a half-coupler rigging clamp that completely surrounds the truss chord directly to the truss's mounting bracket of the clamp with M12 grade 8.8 bolts through the holes in the mounting bracket and secure with unworn self-locking nuts. Do not use omega brackets.
2. Block access under the work area. From a stable job hang the spreader on the truss and fasten the half coupler clamps on the truss chord.
3. If the primary accessory fails and could fall and cause injury or damage, please attach an approved accessory safety cable to the safety anchor and one of the safety cable attachment points on the fixture
4. If necessary, adjust the orientation of the clamp by loosening the tilt adjustment wheel, adjust the target of the clamp and retighten the tilt adjustment wheel. Apply strong pressure by hand only - do not use tools to tighten the tilt adjustment wheel. Truss Mounted Vertical Hanging in "Free Hanging Mode"

It is possible to install a vertically suspended shaking head strobe, down from the truss, and then set it to the desired inclination

Use the tilt adjustment wheel in the mounting bracket. To hang the spreader on a rigging structure such as a truss, it can only be hung vertically in "Free Hanging" mode.

2

LAMP APPEARANCE



3

FUNCTION SETTING

Menu	Value	
DMX Address Set	1-512	DMX setting
Work Mode Set	DMX512	DMX512
	Slave	Slave mode
	Slow	Slow mode
	Fast	Fast mode
	Sound	Sound
	NETWORK	New work
	WIRELESS	Wireless
Invert TILT	Yes	Motor reverse control
	No	motor control normally
MOTOR FBACK	Yes	Sensor error
	No	Sensor error
Display Set	Yes	Backlight delay off
	NO	Backlight on

Channel Mode Set	6 CH Mode	6CH
	18 CH Mode	18CH
	39 CH Mode	39CH
	443 CH Mode	443CH
	NET Mode	Net mode
Net Mode Set	IP Address Set	IP setting
	Netmask Set	Netmask set
	Gateway Set	Gateway set
	MAC Address	MAC add
Restore Factory Setting	Yes	reset
Reset		Reset

4 **DMX CHANNEL**

6channel

6channel	DMX value	Function Description
Ch1	0-255	Pan rotation
Ch2	2-25	No function
	80-84	reset
Ch3	0-255	Strobe dim,linear dimmer from dark to bright
Ch4	0-255	Red dim,linear dimmer from dark to bright
Ch5	0-255	Green dim,linear dimmer from dark to bright
Ch6	0-255	Blue dim,linear dimmer from dark to bright

19channel

19channel	DMX value	Function Description
Ch1	0-255	Pan
Ch2	0-255	Pan fine
Ch3	2-25	No function
	80-84	reset
Ch4	0-255	Total dimmer (0-100%)
Ch5	0-24	Strobe on
	25-255	Strobe, from slow to fast
Ch6	0-4	No effect
	5-255	select symbol, 3 values one character
Ch7	0-4	No effect
	5-255	select symbol, 3 values one character
Ch8	0-4	No effect
	5-255	Select color, 4 values one color
Ch9	0-4	No effect
	5-255	Select color, 4 values one color
Ch10	0-127	Normal
	128-255	reverse display
Ch11	0-4	No effect
	5-255	Select effect, 3 values one effect
Ch12	0-255	Auto effect, from slow to fast
Ch13	0-255	Led pixel, red color full control
Ch14	0-255	Led pixel, green color full control
Ch15	0-255	Led pixel, blue color full control
Ch16	0-255	Strobe, dimmer 0-100%
Ch17	0-24	Strobe open
	25-255	Strobe, from slow to fast
Ch18	0-5	No function
	5-255	Strobe auto effect, from slow to fast
Ch19	0-255	The speed of Auto effect, from slow to fast

40 channels

40channel	DMX value	Function Description
Ch1	0-255	Pan
Ch2	0-255	Pan fine
Ch3	2-25	No function
	80-84	reset
Ch4	0-255	Total dimmer (0-100%)
Ch5	0-24	Strobe on
	25-255	Strobe, from slow to fast
Ch6	0-4	No effect
	5-255	select symbol, 3 values one character
Ch7	0-4	No effect
	5-255	select symbol, 3 values one character
Ch8	0-4	No effect
	5-255	Select color, 4 values one color
Ch9	0-4	No effect
	5-255	Select color, 4 values one color
Ch10	0-127	Normal
	128-255	reverse display
Ch11	0-4	No effect
	5-255	Select effect, 3 values one effect
Ch12	0-255	Auto effect, from slow to fast
Ch13	0-255	Strobe, dimmer 0-100%
Ch14	0-24	Strobe open
	25-255	Strobe, from slow to fast
Ch15	0-5	No function
	5-255	Strobe auto effect, from slow to fast
Ch16	0-255	The speed of Auto effect, from slow to fast
Ch17-40	0-255	Led pixel control, red color part control
	0-255	Led pixel control, green color part control
	0-255	Led pixel control, blue color part control

433channel

433channel	DMX value	Function Description
Ch1	0-255	Pan
Ch2	0-255	Pan fine
Ch3	2-25	No function
	80-84	reset
Ch4-11	0-255	8 strobe control,dimmer 0-100%
Ch12-443	0-255	Led pixel control, red color 144 part control
	0-255	Led pixel control, green color 144 part control
	0-255	Led pixel control, blue color 144 part control

5 TECHNICAL PARAMETER

- Power:AC100-240V50/60Hz 3000W
- Light Source:864pcs 0.5W RGB LEDs&160pcs 10W white LEDs,8 segments white LED controlled independently no ultraviolet radiation864 segments RGB
- Life Time:Over 20000 hours for the LED light source
- Output:70,000 lm@3 meter distance
- Beam Angle:120 degrees
- Tilt angle:190 degrees
- Control mode:DMX512, automatic, master-slave, Art-Net, with RDM function
- DMX Mode :6/19/39/443/DMX channels
- Dimmer:32 bit dimmer
- Operating Mode:DMX /Master-Slave/Pixel
- Over Heat Protect With temperature sensor to extend the lamp's life
- LED Scan Rate: 9000 Hz LED scan rate,Flick-Free
- Waterproof Rating :Real IP65
- Weight:18KG

Effect:

- Beam is a high-intensity array that provides powerful stroboscopic and masking effects

Strobe effect

Moving head strobe provides variable flash frequency, flash duration and strobe effect intensity of the beam. It also provides the following pre-programmed effects:

- Raise/lower the intensity modulation effect
- Random strobe
- Spikes - low intensity light output of high intensity flashes.

masking effect

For a continuous shading effect, set the flash duration to a longer value and the flash frequency to a higher frequency

The value flashes "overlap" and merge into a continuous light output.

Service and Repair:



Warning ! Disconnect light fixture from AC power and allow to cool for at least 10 minutes before handling. If connected to power, be prepared for a sudden lighting of the light fixture.



Warning ! Refer any service operations to a qualified service technician. important! Excessive dust, smoke and accumulated particles can reduce performance, cause overheating and damage the light fixture. Damage due to improper cleaning or maintenance is not covered by the product warranty.

The user needs to clean up the shaking head strobe regularly, and the user can also update the software of the lamp.

LEDs are subject to wear and tear over the life of the product, resulting in gradual changes in color and overall brightness over thousands of hours of use. The degree of wear and tear is highly

dependent on operating conditions and environment, so it is impossible to specify precisely whether and to what extent LED performance is affected. However, after prolonged use, if its characteristics are affected by wear and tear, and the fixture needs to perform with very precise optical and color parameters, you may eventually need to replace the LED. Manufacturer's LED lifetime data is based on performance under manufacturer's test conditions. As compared to all LEDs, the gradual decrease in luminous output will be accelerated when LEDs are used in fixtures, and the conditions in this case are much more difficult than the manufacturer's test. To maximize the life of the LEDs, keep the ambient temperature as low as possible and drive the LEDs as little as possible and not for too long.

Cleaning:

Warning ! Disconnect power and allow to cool before cleaning.

Cleaning schedules for lighting fixtures vary widely depending on the operating environment. It is therefore not possible to specify an exact cleaning interval for the shaking head strobe. Environmental factors that can cause frequent cleanings include:

- Use a fog machine.
- High air velocities (eg near air conditioning vents).
- Presence of cigarette smoke.
- Airborne dust (eg stage effects, building structures and fittings or the natural environment of outdoor events).

If one or more of these factors are present, inspect the light fixture within the first 100 hours of operation to see if it needs cleaning. Check again frequently. This program will allow you to assess your cleaning requirements in a specific situation.

Use gentle pressure only when cleaning and work in a clean, well-lit area. Do not use products containing solvents or abrasives, which may cause surface damage.