

C08

19 x 15 W LED Wash Moving Head Eco

RGBW 4-IN-1 - MOTORIZED ZOOM - USER MANUAL

Compact beam and wash moving head with three-zone color control



READ BEFORE USE Keep this manual with the fixture. Installation, operation and service must be performed by qualified personnel.

English Edition - Specifications subject to change without notice

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MODEL IDENTIFICATION This manual is for model C08. Confirm the model, voltage rating and firmware shown on the actual fixture before installation or programming.

1 Safety Information

DANGER Disconnect AC power and allow the fixture to cool before opening, cleaning, inspection or service.

- This professional fixture must be installed, operated and serviced by qualified personnel.
- Use only AC 90-240 V, 50/60 Hz as specified by the source and product label. Connect to a protected, properly grounded Class I supply.
- Do not operate the fixture with a damaged housing, lens, connector, mounting point or cable.
- After a large temperature change, leave the fixture disconnected until it reaches ambient temperature and all condensation has evaporated.
- Do not look directly into the LEDs at close range. Flashing light may trigger seizures in susceptible people; follow local restrictions.
- Keep the fixture at least 0.5 m from combustible materials and maintain unobstructed ventilation around all fans and air openings.
- For overhead installation, use rated clamps and an independently rated safety cable attached to the designated point.
- Carry the fixture by its handles or fixed base only. Do not lift it by the moving head.

INDOOR USE The source identifies this as an indoor fixture. Protect it from rain, splashing water, condensation and excessive dust. Do not use outdoors without a correctly rated enclosure.

2 Product Overview

The C08 is a compact RGBW moving-head fixture with nineteen 15 W four-in-one LEDs, motorized zoom and two DMX personalities. It provides beam, wash, color-mixing, macro and three-zone pixel effects for stages, theatres, studios, clubs, mobile productions and rental applications.

2.1 Technical Specifications

Parameter	Specification
Input voltage	AC 90-240 V, 50/60 Hz
Maximum power	250 W
Light source	19 x 15 W RGBW 4-in-1 LEDs
Expected LED life	50,000 hours (source specification)
Control	DMX512 / Master-Slave / Auto / Sound-active
DMX personalities	16CH / 24CH
Pan	540°, 16-bit
Tilt	270°, 16-bit
Zoom / beam angle	8°-50° motorized zoom
Dimming	0-100% linear dimming
Strobe	1-25 Hz electronic strobe
Color / effects	RGBW color mixing, blackout, rainbow and built-in macro effects
Display	Blue LCD; Chinese / English menus; 180° inversion
Data connection	3-pin XLR DMX input/output
Ingress protection	IP20 / indoor use
Net / gross weight	6.3 kg / 8 kg
Packing dimensions	360 x 260 x 460 mm

2.2 Main Functions

- High-output RGBW beam and wash with continuously variable 8°-50° zoom.
- Three independently controlled RGBW zones in the 24-channel personality.
- Smooth 16-bit pan and tilt with position memory and automatic correction.
- Linear dimming, electronic strobe, color-temperature control and built-in macro effects.
- Automatic, sound-active, master-slave and DMX512 operation.

3 Setup and Installation

3.1 AC Power

Before connecting power, verify that the product-label voltage and frequency match the local supply. Complete all mounting and data connections before applying power. Disconnect by holding the plug, not by pulling the cable.

3.2 Rigging

STRUCTURAL RATING The mounting point and every attachment must be rated for at least ten times the fixture load or the higher factor required by local regulations. Keep people clear of the area below during installation and service.

1. Inspect the fixture, omega brackets, clamps, fasteners, mounting points, safety cable and support structure.
2. Attach correctly rated clamps to the supplied omega brackets using suitable M10 hardware.
3. Lock the brackets into the base and attach an independently rated safety cable to the designated safety point.
4. Confirm clearance for the complete 540° pan, 270° tilt and zoom range.
5. Recheck every attachment before applying power.

3.3 DMX512 Connection

Use shielded, twisted-pair cable intended for RS-485/DMX512. Connect the controller to DMX IN, then link DMX OUT to the next fixture. Assign a unique start address to every independently controlled fixture.

3-pin XLR	Signal
Pin 1	Shield / signal common
Pin 2	Data -
Pin 3	Data +

TERMINATION At the last fixture in a long or electrically noisy DMX chain, install a 120 ohm resistor between pins 2 and 3 of a male XLR plug and insert it into DMX OUT.

4 Control Panel and Menu

Use the confirmation key to open or save a setting, UP/DOWN to select or change a value, and the return key to exit. Menu labels may vary slightly with firmware revision.

Main Menu	Item	Option / Range	Operation
System Settings	DMX Address	001-512	Set the fixture start address.
System Settings	Encoder	Off / On	Enable or disable encoder feedback.
System Settings	Pan Reverse	Off / On	Reverse the pan direction.
System Settings	Tilt Reverse	Off / On	Reverse the tilt direction.
Run Mode	Operating Mode	DMX / Auto / Sound	Select controller, automatic or sound-active operation.
Run Mode	Channel Mode	16CH / 24CH	Select the DMX personality.
Display	Language	Chinese / English	Select the menu language.
Display	Display Reverse	Off / On	Rotate the display by 180°.
Factory	Password	138	Open protected calibration settings.
Factory	Pan Calibration	Default 128	Adjust the pan home offset.
Factory	Tilt Calibration	Default 128	Adjust the tilt home offset.
Factory	Zoom Calibration	Default 128	Adjust the zoom home offset.
Factory	RGBW Calibration	Default 220 per color	Adjust maximum red, green, blue and white output.
Factory	Logo	Default 000	Select the startup logo where supported.

PROTECTED SETTINGS Factory calibration is service-only. Record every original value before editing; incorrect calibration can cause positioning or output errors.

5 DMX512 Channel Reference

Select the same personality on the fixture and controller. Values increase from 000 to 255 unless a narrower range is shown.

5.1 16-Channel Personality

Channel	Function	DMX Value	Description
1	Pan	000-255	0-540°
2	Pan Fine	000-255	16-bit fine adjustment
3	Tilt	000-255	0-270°
4	Tilt Fine	000-255	16-bit fine adjustment
5	Pan / Tilt Speed	000-255	Fast to slow
6	Master Dimmer	000-255	0-100%
7	Strobe	000-255	Electronic strobe
8	Red	000-255	0-100%
9	Green	000-255	0-100%
10	Blue	000-255	0-100%
11	White	000-255	0-100%
12	Zoom	000-255	8°-50°
13	Macro Effect	000-255	Built-in macro selection
14	Macro Speed	000-255	Fast to slow
15	Color Temperature	000-255	Linear color-temperature adjustment
16	Reset	000-249 / 250-255	No function / Reset; hold for 5 seconds

5.2 24-Channel Personality

Channel	Function	DMX Value	Description
1	Pan	000-255	0-540°
2	Pan Fine	000-255	16-bit fine adjustment
3	Tilt	000-255	0-270°
4	Tilt Fine	000-255	16-bit fine adjustment
5	Pan / Tilt Speed	000-255	Fast to slow
6	Zoom	000-255	8°-50°
7	Master Dimmer	000-255	0-100%
8	Strobe	000-255	Electronic strobe
9	Zone 1 Red	000-255	0-100%
10	Zone 1 Green	000-255	0-100%
11	Zone 1 Blue	000-255	0-100%
12	Zone 1 White	000-255	0-100%
13	Zone 2 Red	000-255	0-100%
14	Zone 2 Green	000-255	0-100%
15	Zone 2 Blue	000-255	0-100%
16	Zone 2 White	000-255	0-100%
17	Zone 3 Red	000-255	0-100%
18	Zone 3 Green	000-255	0-100%
19	Zone 3 Blue	000-255	0-100%
20	Zone 3 White	000-255	0-100%
21	Macro Effect	000-255	Built-in macro selection
22	Macro Speed	000-255	Fast to slow
23	Color Temperature	000-255	Linear color-temperature adjustment
24	Reset	000-249 / 250-255	No function / Reset; hold for 5 seconds

6 Photometric Data

Illuminance values below are copied from the source test data. Actual output varies with production tolerance, optical condition, mains voltage and measurement method.

6.1 8° Beam

Color	2 m	4 m	6 m	8 m
Red	7,200 lux	1,900 lux	1,000 lux	620 lux
Green	14,800 lux	3,900 lux	1,900 lux	1,200 lux
Blue	14,800 lux	3,950 lux	1,950 lux	1,200 lux
White	15,200 lux	3,850 lux	1,950 lux	1,200 lux
RGBW	41,100 lux	10,000 lux	4,600 lux	2,550 lux

6.2 50° Wash

Color	2 m	4 m	6 m	8 m
Red	1,150 lux	310 lux	200 lux	110 lux
Green	2,450 lux	100 lux	350 lux	180 lux
Blue	2,450 lux	710 lux	350 lux	200 lux
White	2,350 lux	700 lux	320 lux	200 lux
RGBW	6,600 lux	2,000 lux	1,200 lux	700 lux

SOURCE VALUE The green 50° reading at 4 m is listed as 100 lux in both supplied source editions and is reproduced without alteration.

7 Routine Maintenance

ATTENTION Disconnect AC power and allow the fixture to cool completely before inspection or cleaning.

- Inspect all screws, brackets and rigging components for tightness, corrosion and deformation.
- Inspect the housing, lenses, mounting points and support structure for damage or deformation.
- Inspect pan, tilt and zoom movement for wear, imbalance, resistance or abnormal noise.
- Inspect the power cable and connectors for cuts, fatigue, exposed conductors or heat damage.
- Clean internal and external optical surfaces weekly in dusty service conditions using a soft, lint-free cloth.
- Clean fans and ventilation openings weekly and have the electrical system inspected by a qualified technician every three months.
- Do not use alcohol, solvents or abrasive materials on optical or plastic parts.

8 Troubleshooting and Service

Symptom	Check
No light output	Verify supply voltage, power connection, circuit protection, dimmer/strobe values and controller output.
No DMX response after reset	Confirm DMX mode, start address, selected 16/24CH personality, controller patch, cable polarity and connectors.
Intermittent or unstable DMX	Use shielded twisted-pair cable, inspect connectors, separate signal and high-voltage cables, and terminate the final fixture with 120 ohms.
Fixture does not start	Check supply rating, circuit protection, transport damage and loose connections. Refer internal inspection to qualified service.
Abnormal pan, tilt or zoom	Remove obstructions, check reverse/calibration settings, run reset and refer encoders or mechanisms to qualified service.
Reduced or unstable output	Check ventilation, fan operation, optical cleanliness, supply quality, temperature and color calibration.

SERVICE There are no user-serviceable high-voltage parts inside. Refer internal repair, LED-module replacement, motor service and calibration to the manufacturer, its service agent or similarly qualified personnel.

8.1 Warranty and Support

Damage caused by misuse, ignored warnings, unauthorized repair, incorrect installation or operation outside the specified conditions may be excluded from warranty coverage. Include the model, serial number, active personality and a clear fault description when requesting support.

End of manual