

PROFESSIONAL LED WASH FIXTURE

AL3715WZ

37 x 15 W LED WASH MOVING HEAD

USER MANUAL

English Edition | Professionally edited from the supplied manual



37 x 15 W RGBW LEDs | 5-60 degree motorized zoom | Pixel-area effects

Application	Maximum Power	Input	DMX Modes
Indoor	600 W	AC 90-240 V, 50/60 Hz	14 / 17 / 20 / 26 / 48 CH

IMPORTANT Read this manual completely before installing, powering, operating, or servicing the fixture. Retain it for future reference.

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EDITORIAL NOTE Grammar, terminology, menu labels, and channel descriptions have been standardized for professional lighting use. Source values are retained; repeated RGBW area blocks are expanded for clear programming.

1 Product Information & Safety

1.1 Intended Use

The AL3715WZ is a professional indoor RGBW wash moving head with 37 individually lensed 15 W four-color LEDs, motorized zoom, built-in effects, and selectable pixel-area control. It supports DMX512, automatic programs, sound-active operation, and master/slave operation. Typical applications include live productions, theatres, studios, clubs, and entertainment venues.

Inspect the fixture and accessories immediately after unpacking. Do not operate a product that appears damaged in transit.

1.2 Package Contents

Item	Quantity
AL3715WZ fixture	1
Power cable	1
3-pin DMX cable	1
Safety cable	1
Omega bracket	2
User manual	1

1.3 Safety Instructions

- Installation, operation, and service must be performed by qualified personnel familiar with professional entertainment lighting.
- Connect only to the rated AC supply and a properly grounded Protection Class I circuit.
- Disconnect mains power before cleaning, servicing, or when the fixture is not in use. Pull the plug, never the cable.

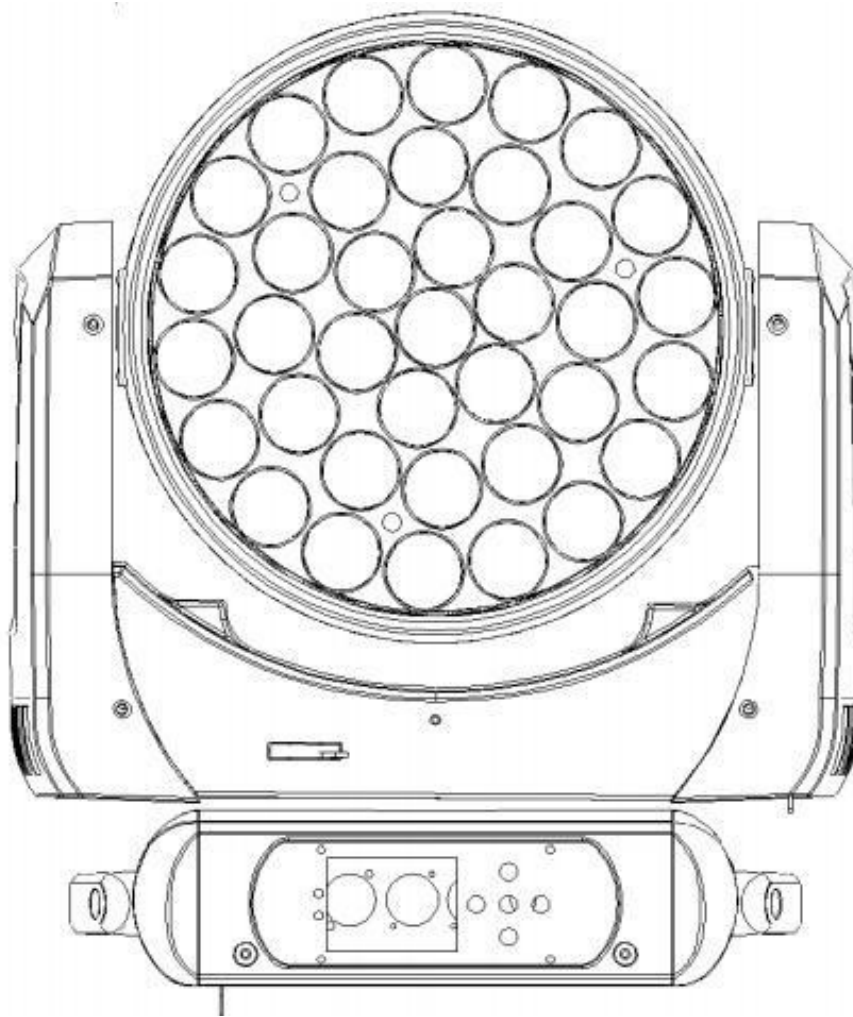
- After a severe temperature change, allow the fixture to reach room temperature before applying power so condensation can evaporate.
- Do not operate the fixture if the power cable, housing, lens, bracket, or safety attachment is damaged.
- Keep ventilation openings unobstructed and maintain at least 0.5 m clearance from walls or objects that restrict airflow.
- Keep illuminated objects at least 0.2 m from the light output and never project the beam onto combustible materials.
- Do not lift or carry the fixture by the moving head. Protect it from impact, excessive vibration, moisture, and heavy dust.
- Strobe lighting may trigger photosensitive seizures. Follow venue and local warning requirements.

THERMAL LIMITATION The supplied manual instructs operators not to run all RGBW emitters at full output continuously for more than 10 minutes. Observe this limitation and ensure unrestricted cooling airflow.

1.4 Technical Specifications

Parameter	Specification
Input voltage	AC 90-240 V, 50/60 Hz
Maximum power	600 W
Light source	37 x 15 W high-brightness RGBW 4-in-1 LEDs
Color system	RGBW additive color mixing
Zoom range	5-60 degrees, motorized
Pan / Tilt	Pan: 540 degrees; Tilt: 270 degrees; 16-bit fine control
Dimming	0-100% continuous linear dimming
Strobe	1-25 Hz; synchronized, pulse, lightning, and random modes
Control modes	DMX512, master/slave, auto programs, sound-active
DMX personalities	14 CH / 17 CH / 20 CH / 26 CH / 48 CH
Display	LCD control display
Rated LED life	Average 50,000 hours
Application	Indoor use
Listed fixture dimensions	386 x 423 x 263 mm
Dimension drawing	Approx. 385.88 x 462.84 x 263.04 mm maximum envelope
Net / gross weight	13.5 kg / 15 kg
Protection	Fan-assisted cooling with automatic temperature control

DIMENSION NOTE The source specification and supplied dimension drawing show different overall heights. Both values are recorded above; use the dimension drawing when checking installation clearance.



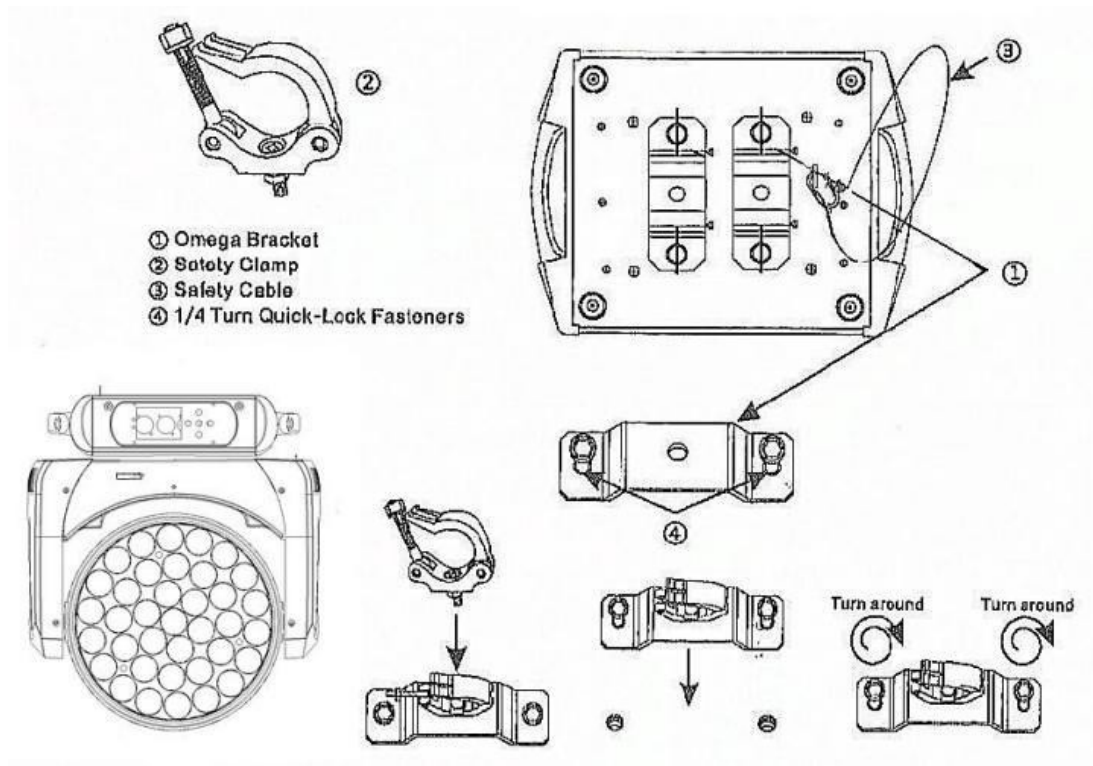
Supplied dimension drawing. Values are in millimetres.

2 Installation & DMX Connections

2.1 Rigging

Before mounting, verify that the supporting structure and all rigging hardware can support at least ten times the fixture weight. Fit appropriately rated clamps to both omega brackets with suitable M10 fasteners. Complete all rigging before connecting mains power.

- Install the fixture outside normal walking and seating areas and beyond unauthorized reach.
- Use both omega brackets for overhead suspension and fully engage every quarter-turn fastener.
- Attach at least one correctly rated safety cable to a designated safety point on the base.
- Never attach the safety cable to a carrying handle.
- Inspect clamps, fasteners, brackets, safety cables, and the supporting structure before every use.



Rigging arrangement shown in the supplied manual.

2.2 DMX512 Data Connection

Connect the controller DMX output to the fixture DMX input with a shielded twisted-pair DMX cable. Connect each fixture output to the next fixture input. The supplied diagram uses 3-pin XLR connectors; 5-pin wiring follows the same DMX512 data principles when fitted.

3-pin XLR	Signal
Pin 1	Ground / shield
Pin 2	Data -
Pin 3	Data +

TERMINATION For long cable runs or electrically noisy environments, install a 120 ohm resistor between pins 2 and 3 in a male XLR plug and connect it to the DMX output of the final fixture.

3 Display Menu & Operation

3.1 Menu Map

Menu	Option	Range / Function
DMX	DMX Address	001-512
DMX	Run Mode	DMX / Auto 1 / Auto 2 / Sound Control

Menu	Option	Range / Function
DMX	Channel Mode	14 / 17 / 20 / 26 / 48 CH
DMX	Pan Invert	No / Yes
DMX	Tilt Invert	No / Yes
DMX	Hall Sensor Correction	No / Yes
DMX	Encoder Correction	No / Yes
DMX	Hold on DMX Loss	No / Yes
Display	Screen Saver	No / Yes
Display	Display Orientation	Auto / Normal / Inverted
System	Update Slave	No / Yes
Display	Language	Chinese / English
System	Restore Settings	Confirm / Cancel
Manual	Pan / Tilt	001-255
Calibration	Focus (Zoom) / Rotation	001-255
Calibration	Red / Green / Blue / White Balance	001-255
Calibration	LED Power	010-255
Sound	Microphone Sensitivity	001-255
System Reset	Password / Effect / Movement / All	Select and confirm
Information	DMX Data / Sensors / Software	View status information

FIRMWARE NOTE Menu wording and available items may vary slightly with installed firmware. “Focus” in the source menu refers to zoom calibration.

4 DMX512 Control

Set a unique DMX start address for each independently controlled fixture. The highest usable start address depends on the selected personality. Reset requires the specified value to be held for 3 seconds.

PROGRAMMING NOTE The source charts do not provide sub-ranges for color, static, dynamic, or background effect macros. These channels are therefore documented as continuous 000-255 selectors without invented boundaries.

4.1 14 CH Mode

Channel	DMX Value	Function
1	000-255	Pan, 0-540 degrees
2	000-255	Pan Fine (16-bit)
3	000-255	Tilt, 0-270 degrees
4	000-255	Tilt Fine (16-bit)
5	000-255	Pan/Tilt Speed, fast to slow
6	000-255	Motorized Zoom, 5-60 degrees
7	000-255	Master Dimmer, 0-100%
8	000-255	Strobe; see 4.7
9	000-255	Red, 0-100%
10	000-255	Green, 0-100%
11	000-255	Blue, 0-100%
12	000-255	White, 0-100%
13	000-255	Auto Program; see 4.7
14	000-255	Reset; see 4.7

4.2 17 CH Mode

Channel	DMX Value	Function
1	000-255	Pan, 0-540 degrees
2	000-255	Pan Fine (16-bit)
3	000-255	Tilt, 0-270 degrees
4	000-255	Tilt Fine (16-bit)
5	000-255	Pan/Tilt Speed, fast to slow
6	000-255	Motorized Zoom, 5-60 degrees
7	000-255	Master Dimmer, 0-100%
8	000-255	Strobe; see 4.7
9	000-255	Red, 0-100%
10	000-255	Green, 0-100%
11	000-255	Blue, 0-100%
12	000-255	White, 0-100%
13	000-255	Auto Program; see 4.7
14	000-255	Color Temperature; see 4.7
15	000-255	Static Effect Macro
16	000-255	Dynamic Effect Macro
17	000-255	Reset; see 4.7

4.3 20 CH Mode

Channel	DMX Value	Function
1	000-255	Pan, 0-540 degrees
2	000-255	Pan Fine (16-bit)
3	000-255	Tilt, 0-270 degrees
4	000-255	Tilt Fine (16-bit)
5	000-255	Pan/Tilt Speed, fast to slow
6	000-255	Motorized Zoom, 5-60 degrees
7	000-255	Master Dimmer, 0-100%
8	000-255	Strobe; see 4.7
9	000-255	Red, 0-100%
10	000-255	Green, 0-100%
11	000-255	Blue, 0-100%
12	000-255	White, 0-100%
13	000-255	Color Temperature; see 4.7
14	000-255	Color Macro
15	000-255	Static Effect Macro
16	000-255	Dynamic Effect Macro
17	000-255	Background Effect
18	000-255	Effect Speed
19	000-255	Auto Program; see 4.7
20	000-255	Reset; see 4.7

4.4 26 CH - Four-Area RGBW Mode

Channel	DMX Value	Function
1	000-255	Pan, 0-540 degrees
2	000-255	Pan Fine (16-bit)
3	000-255	Tilt, 0-270 degrees
4	000-255	Tilt Fine (16-bit)
5	000-255	Pan/Tilt Speed, fast to slow
6	000-255	Motorized Zoom, 5-60 degrees
7	000-255	Master Dimmer, 0-100%
8	000-255	Strobe; see 4.7
9	000-255	Area 1 Red, 0-100%
10	000-255	Area 1 Green, 0-100%
11	000-255	Area 1 Blue, 0-100%
12	000-255	Area 1 White, 0-100%
13	000-255	Area 2 Red, 0-100%
14	000-255	Area 2 Green, 0-100%
15	000-255	Area 2 Blue, 0-100%
16	000-255	Area 2 White, 0-100%
17	000-255	Area 3 Red, 0-100%
18	000-255	Area 3 Green, 0-100%
19	000-255	Area 3 Blue, 0-100%
20	000-255	Area 3 White, 0-100%
21	000-255	Area 4 Red, 0-100%
22	000-255	Area 4 Green, 0-100%
23	000-255	Area 4 Blue, 0-100%
24	000-255	Area 4 White, 0-100%
25	000-255	Auto Program; see 4.7
26	000-255	Reset; see 4.7

AREA MAPPING Channels 9-24 form four consecutive RGBW control blocks: Area 1 = 9-12, Area 2 = 13-16, Area 3 = 17-20, and Area 4 = 21-24.

4.5 48 CH - Seven-Area RGBW Effect Mode

Channel	DMX Value	Function
1	000-255	Pan, 0-540 degrees
2	000-255	Pan Fine (16-bit)
3	000-255	Tilt, 0-270 degrees
4	000-255	Tilt Fine (16-bit)
5	000-255	Pan/Tilt Speed, fast to slow
6	000-255	Motorized Zoom, 5-60 degrees
7	000-255	Master Dimmer, 0-100%
8	000-255	Strobe; see 4.7
9	000-255	Area 1 Red, 0-100%
10	000-255	Area 1 Green, 0-100%
11	000-255	Area 1 Blue, 0-100%
12	000-255	Area 1 White, 0-100%
13	000-255	Area 2 Red, 0-100%
14	000-255	Area 2 Green, 0-100%
15	000-255	Area 2 Blue, 0-100%
16	000-255	Area 2 White, 0-100%
17	000-255	Area 3 Red, 0-100%
18	000-255	Area 3 Green, 0-100%
19	000-255	Area 3 Blue, 0-100%
20	000-255	Area 3 White, 0-100%
21	000-255	Area 4 Red, 0-100%
22	000-255	Area 4 Green, 0-100%
23	000-255	Area 4 Blue, 0-100%
24	000-255	Area 4 White, 0-100%
25	000-255	Area 5 Red, 0-100%
26	000-255	Area 5 Green, 0-100%
27	000-255	Area 5 Blue, 0-100%
28	000-255	Area 5 White, 0-100%
29	000-255	Area 6 Red, 0-100%
30	000-255	Area 6 Green, 0-100%
31	000-255	Area 6 Blue, 0-100%
32	000-255	Area 6 White, 0-100%
33	000-255	Area 7 Red, 0-100%
34	000-255	Area 7 Green, 0-100%
35	000-255	Area 7 Blue, 0-100%
36	000-255	Area 7 White, 0-100%
37	000-255	Color Temperature; see 4.7
38	000-255	Color Macro
39	000-255	Static Effect Macro
40	000-255	Dynamic Effect Macro
41	000-255	Background Red, 0-100%
42	000-255	Background Green, 0-100%
43	000-255	Background Blue, 0-100%
44	000-255	Background White, 0-100%

Channel	DMX Value	Function
45	000-127	Effect Direction: forward
45	128-255	Effect Direction: reverse
46	000-255	Effect Speed
47	000-255	Auto Program; see 4.7
48	000-255	Reset; see 4.7

BACKGROUND COLOR Use channels 41-44 with the Dynamic Effect Macro on channel 40. The source chart labels these as background-color channels.

4.6 Personality Summary

Mode	Control Resolution
14 CH	Basic movement, zoom, master dimmer/strobe, RGBW mixing, auto program, and reset.
17 CH	Adds color-temperature, static-effect, and dynamic-effect macro controls.
20 CH	Adds color macro, background effect, and effect-speed controls.
26 CH	Four independent RGBW areas, plus shared movement, zoom, dimmer/strobe, auto program, and reset.
48 CH	Seven independent RGBW areas, effect macros, background RGBW, effect direction/speed, auto program, and reset.

SOURCE CONSISTENCY NOTE The source feature list mentions 10 controllable areas, but the documented DMX personalities define four RGBW areas in 26 CH and seven RGBW areas in 48 CH. This manual follows the channel charts and does not invent undocumented channels.

4.7 Shared Channel Behavior

Parameter	DMX Value	Function
Strobe	000-063	Synchronized Strobe
Strobe	064-126	Pulse Strobe
Strobe	127-189	Lightning Strobe
Strobe	190-255	Random Strobe
Color Temperature	000-009	No color-temperature correction
Color Temperature	010-255	Variable color temperature, approximately 2500-10 000 K
Auto Program	000-009	No Function
Auto Program	010-255	Auto Program selection / run
Reset	000-239	No Function
Reset	240-250	Reset; hold for 3 seconds
Reset	251-255	No Function

STROBE NOTE The supplied channel charts identify four strobe types but do not define a separate open or blackout range. Values are retained exactly as supplied.

5 Inspection, Maintenance & Cleaning

Disconnect mains power and allow the fixture to cool before inspection or cleaning. There are no user-serviceable parts inside the fixture. Internal service must be performed by qualified personnel using genuine replacement parts.

5.1 Inspection

- Confirm that all installation screws and fasteners are tight and free from corrosion.
- Check the housing, lenses, brackets, suspension points, and rigging hardware for deformation, cracks, or damage.
- Check moving parts for excessive wear, imbalance, abnormal noise, or restricted travel.
- Inspect power and data cables for cuts, crushing, heat damage, material fatigue, or contamination.
- Correct every safety issue before returning the fixture to service.

5.2 Cleaning

- Clean inner and outer lens surfaces regularly to prevent output loss caused by dust accumulation.
- Remove dust from fans and ventilation openings regularly. Cleaning frequency depends on the environment.
- Use a soft, lint-free cloth lightly moistened with water. Do not use alcohol, solvents, abrasives, or pressurized liquid.
- Arrange a detailed electrical inspection by a qualified technician at least every three months, or more often in demanding environments.

END OF MANUAL Retain this manual with the fixture. Before operation, verify the product label, local electrical code, rigging requirements, and venue safety procedures.