

MaxiGOBO

Projector



QUAD

Projector

IP65 | CE | RoHS | 4x80W LED | IK07

Please read this manual carefully before use

- This product has been carefully inspected and securely packaged prior to shipment.
 - Operate the fixture strictly in accordance with this user manual.
 - Damage or malfunction resulting from improper use, modification, or other human factors is **not covered under warranty**.
 - Installation and wiring must be performed by a qualified electrician.
 - Always disconnect from mains power before servicing or replacing gobos.
 - Keep this manual for future reference.
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■ SAFETY GUIDELINES

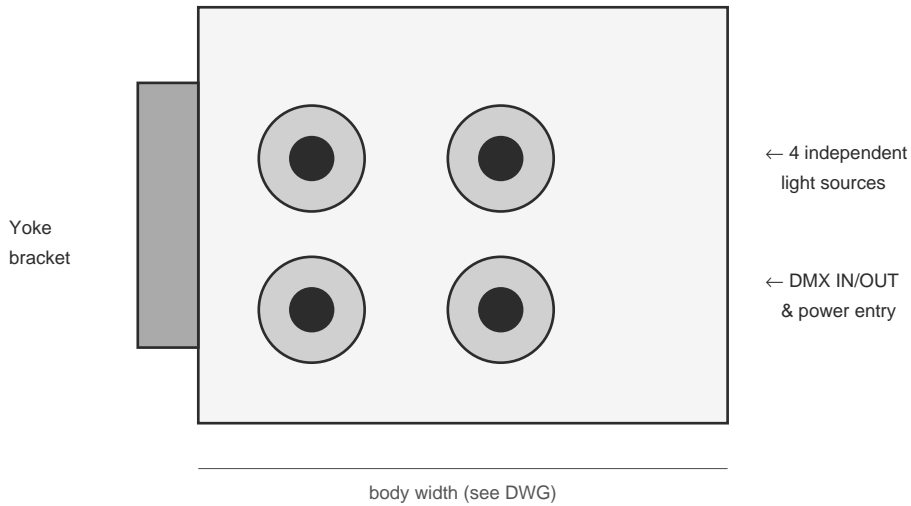
- Before using the product, carefully inspect it to ensure there is no damage caused during transportation.
- Install the fixture in a well-ventilated location with at least 50 cm clearance from nearby surfaces.
- Ensure the ventilation openings are unobstructed to prevent overheating during operation.
- Confirm that the power supply voltage matches the voltage requirements of the product before operation.
- This is a Class I luminaire — always connect and maintain the protective earth (PE) conductor.
- Do not operate the product in environments below -25 °C or above 45 °C.
- Before turning on the fixture, check the power cable for damage. If damaged, replace it immediately.
- The surface temperature of the fixture may become high during operation; do not touch with bare hands.
- Avoid touching the internal wires while the fixture is running to prevent electric shock.
- The fixture contains no user-serviceable LED components; do not attempt to open the LED modules.
- If a malfunction occurs, stop using the equipment immediately and disconnect the power for inspection.
- Only qualified professionals should attempt repairs.
- Do not aim any of the four beams directly at people's eyes. Minimum safe projection distance: 1 m.
- Use only gobos of the correct specification (OD 37.5 mm · ID 24 mm · thickness 2.2 mm).
- Always attach a rated safety cable when mounting overhead.

☰ TECHNICAL PARAMETERS

Parameter	Specification
Voltage	AC 100-240 V, 50/60 Hz
Power Consumption	4 × 80 W (320 W total, single driver)
Light Sources	4 × independent high-power LED modules
Colour Temperature	6500 K
Beam Angle per Source	10° / 20° / 30° / 45° / 60° (manually selectable per source)
Luminous Efficacy	>= 30 lm/W per source
LED Life (L70)	> 40,000 hours
Control Protocol	DMX-512 / Simple Controller / Auto-run
DMX Channels	4 (one per light source)
Factory Focus Distance	8 m (individual on-site refocus required for other distances)
Projection Distance	3 m – 15 m (recommended)
Gobo Size	OD 37.5 mm · ID 24 mm · Thickness 2.2 mm
Dimensions (L × W × H)	Contact MaxiLED Lighting for dimensional drawing
Weight	Contact MaxiLED Lighting
Housing	Die-cast Aluminium, Black Anodised (RAL on request)
IP Rating	IP65
Impact Protection	IK07
Electrical Class	Class I (Earthed)
Operating Temperature	-25 °C to +45 °C
Storage Temperature	-40 °C to +70 °C
Certifications	CE, RoHS
Listino EUR (partner -40%)	EUR 2,700 (partner price on application)

REFERENCE DRAWING

Contact MaxiLED Lighting for certified dimensional drawings. Views below are indicative only. All dimensions in millimetres.



All dimensions in millimetres. Views are indicative — contact MaxiLED Lighting for certified dimensional drawings.

MOUNTING

No	Step	Details
1	Surface Preparation	Choose a structurally sound surface capable of supporting at least 4x the fixture weight.
2	Bracket Attachment	Secure the yoke bracket with M8 bolts (not supplied). Ensure all fasteners are torqued correctly.
3	Safety Cable	Attach a rated safety cable (min. load 40 kg) through the safety eye on the fixture body when mounting overhead.
4	Beam Aiming	Loosen yoke locking knobs, tilt to desired angle, re-tighten firmly. Fixture tilts +/-180° and rotates 360°.
5	Beam Angle (per source)	Unscrew the current lens optic anti-clockwise and remove. Select the desired lens (10°, 20°, 30°, 45° or 60°) and screw in clockwise until firmly seated. Each of the 4 sources can carry a different optic.
6	Focus Adjustment	Factory focus is set at 8 m. For any other projection distance, each of the 4 sources must be individually refocused on-site by rotating the focus ring.
7	Cable Routing	Route power and DMX cables through the IP65-rated cable gland at the rear. Tighten gland firmly against the cable jacket.

ELECTRICAL CONNECTIONS

All electrical connections must be made by a qualified electrician in accordance with applicable local regulations.

Power Connection

Terminal	Conductor Colour	Function
L	Brown	Line (Live)
N	Blue	Neutral
PE	Green / Yellow	Protective Earth — MANDATORY

Minimum cable cross-section: 3x1.5 mm². Maximum cable OD for gland: 14 mm.

DMX512 Signal Connection

Terminal	Signal	Description
DATA+	DMX+	Non-inverting data line
DATA-	DMX-	Inverting data line
COMMON	GND / Shield	Signal common / cable shield

DMX cable: 2-core shielded, 0.34 mm² conductors, 110 ohm impedance. Max. run: 300 m. Terminate the last fixture with a 110 ohm termination plug. Cable spec: Power min. 3x1.5 mm² | DMX: 2x0.34 mm² shielded, 110 ohm.

OPERATING MODES

The QUAD Projector supports three operating modes. The active mode and DMX start address are programmed via the fixture's onboard interface. Contact MaxiLED Lighting for the specific programming procedure for your unit.

Mode	Description
DMX-512	Full DMX control over all 4 sources independently. The fixture responds to 4 consecutive DMX channels starting at the programmed start address (range 1–512). Sequences and parameters are stored in the unit's internal memory and are retained after the controller is disconnected.
Simple Controller	Remote control mode (catalogue accessory, not a DMX controller). Allows activation of each gobo individually, triggering of the animation sequence, and speed adjustment — but only while physically connected. Once unplugged, the unit holds its last state. No programming, no memory.
Auto-Run	Standalone mode. The fixture cycles through its built-in auto programme continuously — no external controller required.

DMX CHANNEL ALLOCATION

The QUAD Projector operates on **8 DMX channels**. Channels 3-6 control the 4 individual gobo sources independently. Channels 1, 2, 7 and 8 provide global strobe, dimming, colour effect and speed control. Set the start address as described in the Operating Modes section.

Channel	Function	Value	Description
CH1	Strobe	0-9	Light off
		10-255	Strobe: slow to fast
CH2	Dimming	0-255	0-100% dimming
CH3	Gobo 1	0-255	Source 1 - from dark to bright
CH4	Gobo 2	0-255	Source 2 - from dark to bright
CH5	Gobo 3	0-255	Source 3 - from dark to bright
CH6	Gobo 4	0-255	Source 4 - from dark to bright
CH7	Colour Effect	0-5	No function
		6-84	Colour fade
		85-169	Colour pulse
		170-255	Colour step change
CH8	Speed	0-255	Effect speed: slow to fast

Note: CH3-CH6 are the primary channels, each controlling one of the 4 independent light sources. CH7 and CH8 apply a global colour effect and speed across all active sources. Request the full channel protocol sheet from MaxiLED Lighting when ordering.

≡ DISPLAY & CONTROL INTERFACE

The QUAD Projector features an onboard display panel for programming and status monitoring. All operating modes, DMX addressing and scene settings are configured through this interface.

Panel Unlock

When the unlock screen appears, touch the four panel buttons clockwise starting from the FUNC key (top-left) to unlock the control panel.

DMX Address

Parameter	Range	Procedure
DMX Address	1-512	Use UP/DOWN to select the address field, press ENTER to enter edit mode. Use UP/DOWN to set the address (001-512). Press ENTER again to confirm and exit.

Run Mode

Selects the current operating state of the fixture.

Option	Description
DMX Ctrl	Fixture enters DMX console control mode.
Auto Run	Fixture runs its built-in automatic programme continuously.
Sound Ctrl	Fixture enters sound-activated mode.
Scene Mode	Scene mode. Run a single scene or cycle through up to 10 scenes automatically.
M/S Choose	Set this unit as Master (transmits DMX) or Slave (receives signal from master).

Display Settings

Option	Description
Language	Select panel display language: English or Chinese.
Screen Saver	Select the screen saver type shown when idle.
Screen Rot	Select normal or inverted screen orientation.
Lock Screen	Enable or disable panel lock.

Scene Programming

Use UP/DOWN to select Scene Select, then press the FUNC key (bottom-left) to switch scenes. Scene Time sets the duration of each scene - maximum 25.5 seconds (minimum recommended: 3 seconds). After setting values, press the bottom-left key to confirm and the top-left key to exit. In Run Mode, select Scene Mode to choose either a single scene or Auto (all scenes cycling).

Status Information

Option	Description
Error Logging	Fault log - view recorded errors.
Fixture Status	View the current detailed operating status of the fixture.
Version	Firmware version number.
Light Time	Total hours the light source has been illuminated.
Total Time	Total hours the fixture has been powered.

GOBO INSTALLATION & REPLACEMENT

Gobo Specifications

Parameter	Specification
Outer Diameter (OD)	37.5 mm
Inner Diameter (ID)	24.0 mm
Thickness	2.2 mm
Material	Glass (borosilicate)

Replacement Procedure

Repeat the procedure for each of the 4 sources as required. Each source has an independent gobo holder accessible from the front of the fixture.

No	Step	Details
1	Isolate power	Disconnect from mains. Allow to cool for at least 10 minutes.
2	Access lens	Unscrew the front lens retaining ring (anti-clockwise) or release quarter-turn fasteners on the relevant source.
3	Remove gobo	Slide the existing gobo out of the holder slot. Use a flat tool to release the spring clip.
4	Inspect holder	Check the gobo holder for heat damage or debris. Clean if necessary with a soft cloth.
5	Insert new gobo	Slide new gobo in with the coated/etched side facing the LED. Ensure spring clip engages.
6	Reassemble	Replace the lens retaining ring and tighten finger-tight. Do not overtighten.
7	Test	Reconnect power and verify the gobo image is sharp. Adjust focus by rotating the focus ring. Refocus all 4 sources individually.

■ Always use gobos of the correct specification (OD 37.5 mm · ID 24 mm · thickness 2.2 mm). Incorrect gobos may cause overheating or permanent damage.

MAINTENANCE & CARE

Task	Frequency	Procedure
Lens cleaning (x4)	Monthly	Clean each of the 4 front lenses with a soft lint-free cloth. Use isopropyl alcohol for stubborn deposits.
Housing check	Monthly	Check for physical damage, corrosion, or degraded IP gaskets. Replace gaskets if cracked.
Mounting hardware	Before each overhead use	Verify all bracket bolts, safety cables, and locking mechanisms are secure.
Cable inspection	Quarterly	Check power and DMX cables for chafing, cuts, or loose connections.
Gobo check (x4)	Quarterly	Inspect all 4 gobos for warping or heat discolouration. Replace if projection quality degrades.
LED modules	Service only	Not field-replaceable. Contact MaxiLED Lighting for authorised service.

Troubleshooting

Symptom	Possible Cause	Remedy
No output on one or more sources	No mains power / blown fuse	Check supply, fuses, and all connections
Dim output	Dirty lens / wrong beam angle	Clean lens; check installed lens optic on affected source
Gobo not sharp	Focus out of adjustment	Rotate focus ring on lens body of affected source
No DMX response	Wrong address or bad cable	Verify programmed DMX address; check cable and 110 ohm terminator
Fixture flashes	Over-temperature protection	Allow to cool; check ambient temp and ventilation clearance
Gobo image skewed	Gobo fitted incorrectly	Remove and refit gobo; check correct orientation
Sources not animating in sequence	Simple Controller connected but no DMX	For sequenced multi-optic configurations a DMX controller is mandatory. See Section 12.

★ ADVANCED CONFIGURATION & FIELD NOTES

This section consolidates critical technical clarifications for specifiers and installers. Read in full before commissioning any QUAD installation.

12.1 Four Independent Light Sources

The QUAD features 4 fully independent light sources, each individually controllable via DMX. This means gobo selection, rotation speed, timing, and pause durations can be programmed separately for each source, enabling complex dynamic projection effects from a single fixture.

12.2 Simple Controller — Capabilities and Limitations

The Simple Controller (available as a catalogue accessory) is a remote control device, not a DMX controller. It allows the operator to:

- Activate each gobo individually.
- Trigger the animation sequence.
- Adjust animation speed.

■ **The Simple Controller only functions while physically connected. Once unplugged, the fixture holds its last active state and cannot be further controlled. No programming, no memory. For any installation requiring stored sequences or unattended operation, a DMX controller is required.**

12.3 DMX Controller — Programming and Memory

With a DMX controller, sequences and all operating parameters are programmed and stored in the fixture's internal memory. The QUAD retains the full programming even after the DMX controller is disconnected. This makes DMX the only viable solution for:

- Installations requiring automated unattended operation.
- Mixed optics configurations (see Section 12.5).
- Any configuration where each of the 4 sources requires independently timed sequences.

12.4 Pre-Programmed Units — Focus Is Never Plug-and-Play

Some QUAD units are shipped pre-programmed (e.g. with bird gobos) and ready to run sequences immediately on power-up. However, pre-programmed does not mean plug-and-play from a projection distance perspective.

■ **FACTORY FOCUS IS SET AT 8 METRES. Any projection distance other than 8 m requires individual on-site refocusing of each of the 4 sources. This step is mandatory and cannot be skipped, even on pre-programmed units. Plan for on-site access to each source during installation.**

12.5 Mixed Optics Configuration

Each of the 4 sources can be fitted with a different lens optic, producing projections of different sizes and projection depths simultaneously. This enables visually complex and dynamic multi-layer effects. Mixed optics configurations require two things to be planned in advance:

#	Requirement	Detail
1	DMX controller is mandatory	It is the only way to independently program timing, duration, and pauses for each source when different optics are used. The Simple Controller cannot deliver this.

#	Requirement	Detail
2	Gobo artwork must be optic-specific	Each gobo must be designed with dimensions matched to the specific optic assigned to that source. A single universal gobo design will not work across different optics. This must be addressed at the artwork stage, before anything is manufactured.

**KEY
TAKEAWAY**

Regardless of how the unit is shipped, always plan for on-site individual focus adjustment on each of the 4 sources. If you are specifying a mixed optics configuration, involve MaxiLED Lighting early — before gobo artwork is finalised.

CE WARRANTY & COMPLIANCE

Warranty

MaxiLED Lighting provides a 3-year warranty against defects in materials and workmanship under normal use. Warranty is voided by unauthorised modification, incorrect installation, use outside specified parameters, or physical damage. Return Material Authorisation (RMA) required before returning goods.

CE Declaration of Conformity

This product complies with: Low Voltage Directive 2014/35/EU; EMC Directive 2014/30/EU; RoHS Directive 2011/65/EU (as amended by 2015/863/EU). Full Declaration of Conformity available on request.

WEEE Directive

Do not dispose of as unsorted municipal waste. Subject to WEEE Directive 2012/19/EU. Dispose through authorised collection and recycling schemes.

i CONTACT & TECHNICAL SUPPORT

Company	Unit 2, Farrington Place Rossendale Road Industrial Estate Burnley, Lancashire BB11 5TY UK
Telephone	+44 (0)1282 448086
	sales@maxiledlighting.com
Web	www.maxiledlighting.com

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