

M1-80W RGB MOVING HEAD LASER

PROFESSIONAL EDITION

M1-80W RGB Moving Head Laser is a professional stage-effect platform combining 80 W RGB / Pan 540 degrees / tilt 270 degrees with DMX512 / auto / sound active operation.

80 W RGB

LASER OUTPUT

26CH

DMX CONTROL

**DT40K
GALVO**

SCAN SYSTEM



Product Positioning

Professional positioning and core value for M1-80W RGB Moving Head Laser

01 Professional laser effects
M1-80W RGB Moving Head Laser is designed for stages, venues, events and rental systems.

02 Flexible output platform
80 W RGB.

03 Core effect engine
80 W RGB / Pan 540 degrees / tilt 270 degrees / DT40K galvanometer.

04 Professional control
DMX512 / auto / sound active / master/slave / ILDA / SD playback / Pangolin FB3/FB4 PC control.

CORE VALUE
80 W RGB, 26CH DMX512 and flexible operation.



THREE-QUARTER VIEW

Key Performance

Core performance and system configuration



M1-80W RGB MOVING HEAD LASER

80 W RGB

LASER OUTPUT

26CH

DMX CONTROL

DT40K GALVO

SCAN SYSTEM

Pan 540
degrees /

MOVEMENT

AC 100-240 V

INPUT VOLTAGE

80 W RGB

CORE EFFECT

BUILT FOR PROFESSIONAL LASER PROGRAMMING

80 W RGB / Pan 540 degrees / tilt 270 degrees / DT40K galvanometer, supported by DMX512 / auto / sound active / master/slave / ILDA / SD playback / Pangolin FB3/FB4 PC control for flexible show programming.

AC 100-240 V, 50/60 Hz; actual unit nameplate governs installation / +/-30 degrees (60-degree total)

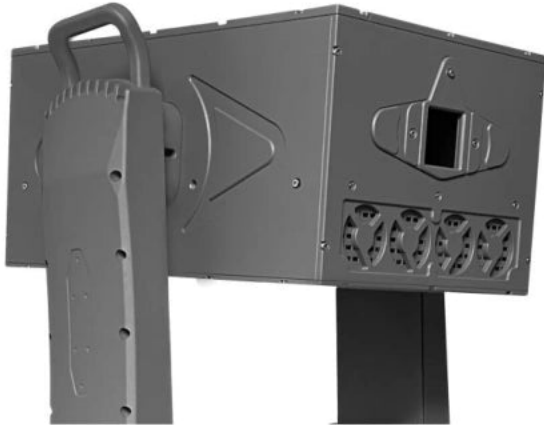
Optical & Function Architecture

Product exterior, optical and control hardware



01 **FRONT OPTICAL STRUCTURE**

Aperture, guarded faceplate and mounting structure.



02 **ENCLOSURE & COOLING**

Enclosure, ventilation and bracket architecture.



03 **CONTROL & CONNECTIONS**

Display, control and connection panel.

LASER OUTPUT

80 W RGB

DMX CONTROL

26CH

SCAN SYSTEM

DT40K GALVO

MOVEMENT

Pan 540 degrees /

INPUT VOLTAGE

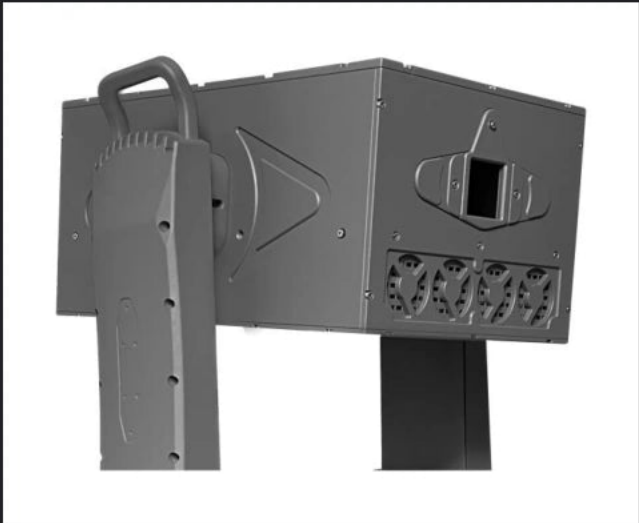
AC 100-240 V

CORE EFFECT

80 W RGB

OPTICAL OUTPUT & HARDWARE ARCHITECTURE

Optical output, enclosure and control-system architecture



01

OPTICAL OUTPUT

Aperture and optical-output architecture.

PRODUCT HARDWARE



02

ENCLOSURE & COOLING

Enclosure, ventilation and mounting architecture.

PRODUCT HARDWARE



03

CONTROL SYSTEM

Display, DMX and professional control architecture.

PRODUCT HARDWARE

PRODUCT HARDWARE & OPTICAL ARCHITECTURE

Control & Integration

26CH DMX512 and multiple operating modes



APERTURE / COOLING ARCHITECTURE

Pan 540
degrees

MOVEMENT

DT40K GALVO

SCAN SYSTEM

+/-30 degrees

SCAN ANGLE

01 **26CH DMX mode**

Integrate the fixture through its 26CH DMX512 mode.

02 **Standalone operation**

DMX512 / auto / sound active / master/slave / ILDA / SD playback / Pangolin FB3/FB4 PC control supports flexible deployment.

03 **Effect management**

80 W RGB / Pan 540 degrees / tilt 270 degrees / DT40K galvanometer supports professional show programming.

CONTROL MODES

DMX512 / AUTO / SOUND ACTIVE / MASTER/SLAVE / ILDA / SD PLAYBACK /
PANGOLIN FB3/FB4 PC CONTROL

Product Views

Product views at a consistent visual scale



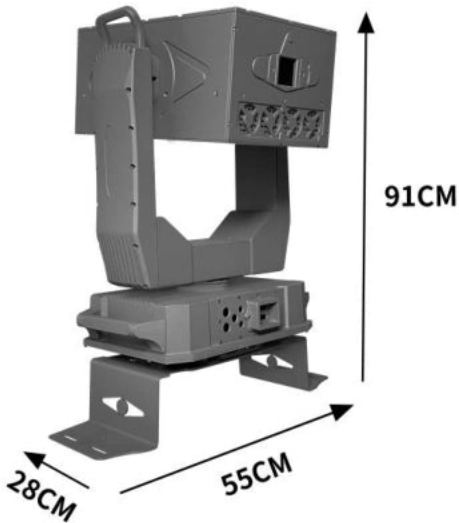
THREE-QUARTER / APERTURE SIDE



OPPOSITE ANGLE / YOKE



STRAIGHT-ON / COOLING



DIMENSIONS

Technical Specifications

Laser, movement, power and control data



MODEL	M1-80W
LASER OUTPUT	80 W RGB
RGB ALLOCATION	R 638 nm / 20 W; G 520 nm / 30 W; B 445 nm / 30 W
MAX INPUT POWER	<= 1200 W
INPUT VOLTAGE	AC 100-240 V, 50/60 Hz; actual unit nameplate governs installation
SCAN SYSTEM	DT40K galvanometer
SCAN ANGLE	+/-30 degrees (60-degree total)
BEAM DIVERGENCE	< 1.6 mrad full angle

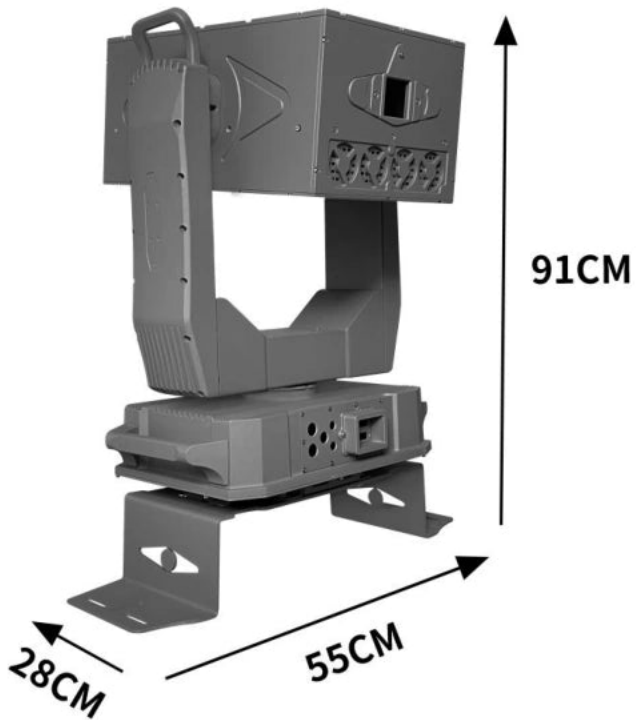
PRO CONTROL	Professional stage-lighting system
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APERTURE SPOT	<= 6.5 mm at the aperture
MODULATION	<= 100 kHz
MOVEMENT	Pan 540 degrees / tilt 270 degrees
DMX MODE	26CH delivered library mode
PRODUCT SIZE	550 x 280 x 910 mm
FLIGHT CASE	110 x 76 x 52 cm, including 14 cm wheels
OUTDOOR ARCHITECTURE	Outdoor-oriented sealed enclosure architecture
CONTROL MODES	DMX512 / auto / sound active / master/slave / ILDA / SD playback / Pangolin FB3/FB4 PC control

Dimensions, Packing & Product Data

Dimensions, weight and packing data for project planning

PRODUCT DATA



550 x 280 x 910 mm

PRODUCT SIZE

110 x 76 x 52 cm,
including 14 cm
wheels

M1-80W RGB
Moving Head Laser

PRODUCT DATA

M1-80W RGB Moving Head Laser

PRODUCT DATA

PROJECT PLANNING REFERENCE

Product and packing information supports transport, storage and venue planning.

Laser Safety & Installation

Professional installation and controlled laser projection



PRODUCT BODY / SAFE INSTALLATION

01

Trained personnel

Installation, commissioning and internal service require trained personnel.

02

Controlled laser zone

Keep the aperture and scanned effects away from eyes, skin and uncontrolled audience zones.

03

Secure mounting

Use a structure rated for the product load and verify every fastener.

04

Clear work zone

Keep the area below clear during installation, testing and service.

05

Environment management

Maintain ventilation and avoid unsuitable moisture, heat and dust exposure.

Power & Installation Safety

Protective earth, mounting structure and supply safety



AC 100-240 V

INPUT VOLTAGE

50/60 Hz

FREQUENCY / SIGNAL

$\leq 1200\text{ W}$

MAX INPUT POWER

26CH

DMX MODE

INSTALLATION / POWER SAFETY

01 **Rated mounting hardware**

Use rated clamps, brackets and independent safety retention.

02 **Protective earth**

Verify protective earth and the final unit nameplate before energizing.

03 **Circuit and clearance**

Keep ventilation and cable paths clear; size the supply correctly.

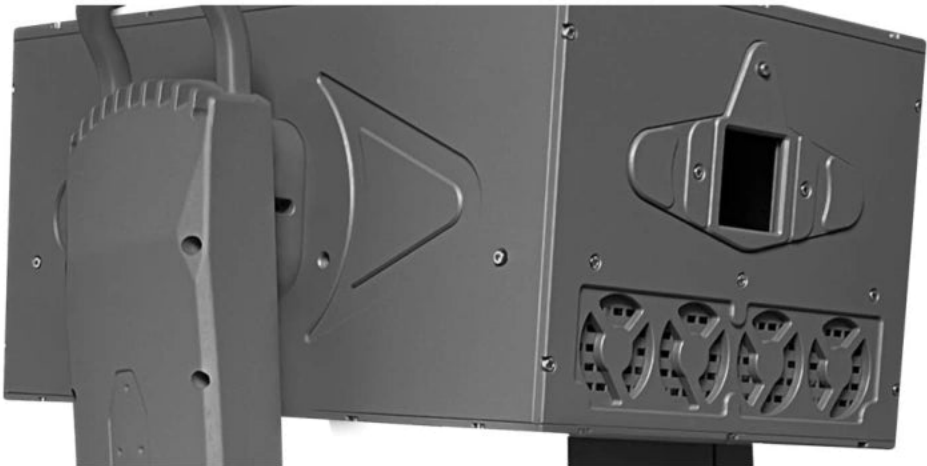
04 **Pre-operation inspection**

Confirm fasteners, safety points and movement clearance before operation.

POWER SAFETY: use protective earth and size the supply circuit to the final product nameplate and local electrical rules.

Operating Workflow

A controlled sequence for DMX or standalone operation



26CH DMX CONTROL

01

Rig and inspect

Secure the fixture and confirm safety hardware, aperture zone and clearance.

02

Connect power and DMX

Verify voltage, grounding, circuit capacity and signal cabling.

03

Select control mode

Choose DMX512 / auto / sound active / master/slave / ILDA / SD playback / Pangolin FB3/FB4 PC control.

04

Assign address

Set the DMX start address for 26CH mode.

05

Test at low output

Check 80 W RGB / Pan 540 degrees / tilt 270 degrees / DT40K galvanometer.

06

Run and monitor

Maintain a controlled projection zone and monitor operating status.

Maintenance & Care

Preventive inspection protects optics and ventilation



PRODUCT BODY / APERTURE / VENTILATION / CONNECTIONS

01

Disconnect and cool

Remove power and allow the fixture to cool before cleaning or inspection.

02

Clean optical surfaces

Keep the aperture window clean using suitable non-abrasive methods.

03

Maintain ventilation

Remove dust around vents and fans without opening energized equipment.

04

Inspect mounting

Check brackets, clamps, fasteners and safety hardware.

05

Inspect cables

Check mains and DMX cables, connectors and strain relief.

06

Qualified internal service

Internal laser, power and control systems require trained service personnel.

Troubleshooting Guide

First-line checks before qualified technical service



01	No power or display	Check supply voltage, protective earth, switch position and circuit capacity.
02	No DMX response	Check 26CH mode, start address, cable and signal endpoint.
03	No laser output	Check the selected mode, program, dimmer, strobe and blackout state.
04	Abnormal output	Stop operation, inspect ventilation and supply stability, then cool before retest.
05	Intermittent control	Separate mains and signal wiring and inspect shielding and connections.
06	Problem remains	Disconnect power and refer the unit to qualified technical personnel.

SAFETY FIRST: disconnect power before inspection or maintenance.

Recommended Applications

Recommended professional stage, show, event and venue applications



CONCERT STAGES

Large performance stages and controlled projection zones

PROFESSIONAL SHOW PROGRAMMING



FESTIVALS & EVENTS

Festivals, brand events and public performances

DMX / PROFESSIONAL CONTROL



CLUBS & VENUES

Entertainment and hospitality installations

IMMERSIVE SHOW PROGRAMMING

RECOMMENDED FOR CONTROLLED PROFESSIONAL STAGE
APPLICATIONS

CONCERTS / FESTIVALS / CLUBS / PROFESSIONAL EVENTS

Product Summary

M1-80W RGB Moving Head Laser



80 W RGB

LASER OUTPUT

26CH

DMX CONTROL

DT40K GALVO

SCANS SYSTEM

**Pan 540
degrees /**

MOVEMENT

AC 100-240 V

INPUT VOLTAGE

80 W RGB

CORE EFFECT

PROFESSIONAL LASER OUTPUT. FLEXIBLE CONTROL.

M1-80W RGB Moving Head Laser is a professional stage-effect platform combining 80 W RGB / Pan 540 degrees / tilt 270 degrees with DMX512 / auto / sound active operation.

YL AUDIO & LIGHTING

ylaudiolight.com



YL AUDIO & LIGHTING

Product details, fixture profiles and technical support are available on request.