

M1-50W RGB MOVING HEAD LASER LIGHT

PROFESSIONAL EDITION

M1-50W RGB Moving Head Laser Light is a professional stage-effect platform combining 50 W RGB / Pan 540 degrees; tilt 270 degrees with DMX512 / auto / sound active operation.

50 W RGB

LASER OUTPUT

26CH

DMX CONTROL

DT40K

SCAN SYSTEM



Product Positioning

Professional positioning and core value for M1-50W RGB Moving Head Laser Light

- 01

Professional laser effects
M1-50W RGB Moving Head Laser Light is designed for stages, venues, events and rental systems.
- 02

Flexible output platform
50 W RGB.
- 03

Core effect engine
50 W RGB / Pan 540 degrees; tilt 270 degrees / 128 built-in beam and animation programs; PRG/ILD playback workflow / 26CH delivered library mode.
- 04

Professional control
DMX512 / auto / sound active / master/slave / ILDA / SD-card playback / PC control.

CORE VALUE

50 W RGB, 26CH DMX512 and flexible operation.



Key Performance

Core performance and system configuration



M1-50W RGB MOVING HEAD LASER LIGHT

50 W RGB

LASER OUTPUT

26CH

DMX CONTROL

**DT40K
galvanometer**

SCAN SYSTEM

**Pan 540
degrees;**

MOVEMENT

AC 110-250 V

INPUT VOLTAGE

50 W RGB

CORE EFFECT

BUILT FOR PROFESSIONAL LASER PROGRAMMING

50 W RGB / Pan 540 degrees; tilt 270 degrees / 128 built-in beam and animation programs; PRG/ILD playback workflow / 26CH delivered library mode, supported by DMX512 / auto / sound active / master/slave / ILDA / SD-card playback / PC control for flexible show programming.

AC 110-250 V, 50/60 Hz / +/-30 degrees (60-degree total)

Optical & Function Architecture

Professional exterior, optical and control hardware



01 **FRONT OPTICAL STRUCTURE**

Product aperture, guarded faceplate and mounting structure.



02 **ENCLOSURE & COOLING**

Product enclosure, ventilation and bracket architecture.



03 **CONTROL & CONNECTIONS**

Product display, control and connection panel.

LASER OUTPUT

50 W RGB

DMX CONTROL

26CH

SCAN SYSTEM

DT40K galvanometer

MOVEMENT

Pan 540 degrees;

INPUT VOLTAGE

AC 110-250 V

CORE EFFECT

50 W RGB

OPTICAL OUTPUT & MOVING-HEAD ARCHITECTURE

Professional optical, enclosure and control architecture



01 **OPTICAL OUTPUT**

Product aperture and optical architecture.

OPTICAL ARCHITECTURE

02 **ENCLOSURE & COOLING**

Product enclosure, ventilation and mounting architecture.

ENCLOSURE ARCHITECTURE

03 **CONTROL SYSTEM**

Product display, DMX and professional control architecture.

CONTROL ARCHITECTURE

PRODUCT HARDWARE & OPTICAL ARCHITECTURE

Control & Integration

26CH DMX512 and multiple operating modes



DISPLAY / CONTROL / INTERFACE ARCHITECTURE

**Pan 540
degrees;**

MOVEMENT

**DT40K
galvanometer**

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-card playback / PC control supports flexible deployment.

03 **Effect management**

50 W RGB / Pan 540 degrees; tilt 270 degrees / 128 built-in beam and animation programs; PRG/ILD playback workflow / 26CH delivered library mode supports professional show programming.

CONTROL MODES

DMX512 / AUTO / SOUND ACTIVE / MASTER/SLAVE / ILDA / SD-CARD
PLAYBACK / PC CONTROL

Product Views

Product views at a consistent visual scale



FRONT / OPTICAL OUTPUT



THREE-QUARTER / ENCLOSURE



SIDE OR REAR / MOUNTING



REAR / CONTROL & CONNECTIONS

Technical Specifications

Laser, movement, power and control data



MODEL	M1-50W
LASER OUTPUT	50 W RGB
RGB ALLOCATION	R 638 nm / 15 W; G 520 nm / 15 W; B 445 nm / 20 W
INPUT VOLTAGE	AC 110-250 V, 50/60 Hz
MAX INPUT POWER	<= 1000 W
SCAN SYSTEM	DT40K galvanometer
SCAN ANGLE	+/-30 degrees (60-degree total)
BEAM DIVERGENCE	< 1.6 mrad full angle

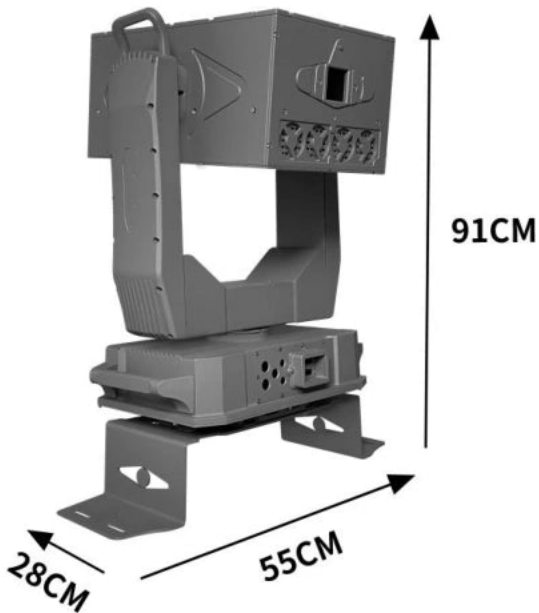
NET WEIGHT	60 kg
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APERTURE SPOT	<= 6.5 mm at the aperture
MODULATION	<= 100 kHz
MOVEMENT	Pan 540 degrees; tilt 270 degrees
DMX MODE	26CH delivered library mode
CONTROL MODES	DMX512, auto, sound active, master/slave, ILDA, SD-card playback and PC control
SOFTWARE SUPPORT	Pangolin FB3 / FB4 workflow
PROGRAM STORAGE	128 built-in beam and animation programs; PRG/ILD playback workflow
PRODUCT SIZE	550 x 280 x 910 mm

Dimensions, Packing & Product Data

Dimensions, packing and transport information

PRODUCT DATA



产品净重:60KG

550 x 280 x 910 mm

PRODUCT SIZE

60 kg

NET WEIGHT

M1-50W RGB LASER

PRODUCT DATA

M1-50W RGB Moving Head Laser Light

PRODUCT DATA

PROFESSIONAL CONFIGURATION

Configured for professional stage installation and transport.

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 & DMX Connection

Protective earth and screened DMX signal distribution



AC 110-250 V

INPUT VOLTAGE

50/60 Hz

FREQUENCY / SIGNAL

<= 1000 W

MAX INPUT POWER

26CH

DMX MODE

POWER / DMX / CONTROL CONNECTIONS

01 **Shielded DMX cable**

Use purpose-built shielded twisted-pair DMX cable.

02 **Address planning**

Assign non-overlapping start addresses for 26CH mode.

03 **Separate power and signal**

Route mains and signal wiring separately where practical.

04 **Line management**

Apply professional termination practice on long or unstable DMX lines.

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 delivered library mode / DISPLAY / MENU 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-card playback / PC control.

04

Assign address

Set the DMX start address for 26CH mode.

05

Test at low output

Check 50 W RGB / Pan 540 degrees; tilt 270 degrees / 128 built-in beam and animation programs; PRG/ILD playback workflow / 26CH delivered library mode.

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

REAL APPLICATION PHOTOGRAPHY ILLUSTRATES SUITABLE VENUE TYPES

Product Summary

M1-50W RGB Moving Head Laser Light



50 W RGB

LASER OUTPUT

26CH

DMX CONTROL

**DT40K
galvanometer**

SCAN SYSTEM

**Pan 540
degrees;**

MOVEMENT

AC 110-250 V

INPUT VOLTAGE

50 W RGB

CORE EFFECT

PROFESSIONAL LASER OUTPUT. FLEXIBLE CONTROL.

M1-50W RGB Moving Head Laser Light is a professional stage-effect platform combining 50 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.