

Y-40W RGB LASER LIGHT

PROFESSIONAL EDITION

Y-40W RGB Laser Light is a professional stage-effect platform combining 40 W RGB / AT40K galvanometer with DMX512 / auto / sound active operation.

40 W RGB

LASER OUTPUT

21CH

DMX CONTROL

**AT40K
GALVO**

SCAN SYSTEM



Product Positioning

Professional positioning and core value for Y-40W RGB Laser Light

01 Professional laser effects
Y-40W RGB Laser Light is designed for stages, venues, events and rental systems.

02 Flexible output platform
40 W RGB.

03 Core effect engine
40 W RGB / AT40K galvanometer / SD-card program editing with more than 128 beam/animation programs.

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

CORE VALUE
40 W RGB, 21CH DMX512 and flexible operation.



THREE-QUARTER VIEW

Key Performance

Core performance and system configuration



Y-40W RGB LASER LIGHT

40 W RGB

LASER OUTPUT

21CH

DMX CONTROL

AT40K GALVO

SCAN SYSTEM

AC 110-250 V

INPUT VOLTAGE

40 W RGB

CORE EFFECT

ANIMATION

CORE FEATURE

BUILT FOR PROFESSIONAL LASER PROGRAMMING

40 W RGB / AT40K galvanometer / SD-card program editing with more than 128 beam/animation programs, supported by DMX512 / auto / sound active / master/slave / ILDA / SD-card playback for flexible show programming.

AC 110-250 V, 50/60 Hz / +/-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

40 W RGB

DMX CONTROL

21CH

SCAN SYSTEM

AT40K GALVO

INPUT VOLTAGE

AC 110-250 V

CORE EFFECT

40 W RGB

FEATURE

ANIMATION

OPTICAL OUTPUT & SAFETY 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

21CH DMX512 and multiple operating modes



DMX / ILDA / DISPLAY / POWER

AT40K GALVO

SCAN SYSTEM

+/-30 degrees

SCAN ANGLE

21CH

DMX MODE

01 **21CH DMX mode**

Integrate the fixture through its 21CH DMX512 mode.

02 **Standalone operation**

DMX512 / auto / sound active / master/slave / ILDA / SD-card playback supports flexible deployment.

03 **Effect management**

40 W RGB / AT40K galvanometer / SD-card program editing with more than 128 beam/animation programs supports professional show programming.

CONTROL MODES

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

Product Views

Product views at a consistent visual scale



THREE-QUARTER / APERTURE SIDE



FRONT / OPTICAL APERTURE



SIDE / COOLING & BRACKET



REAR / CONTROL & POWER

Technical Specifications

Laser, movement, power and control data



MODEL	Y-40W
LASER OUTPUT	40 W RGB
INPUT VOLTAGE	AC 110-250 V, 50/60 Hz
MAX INPUT POWER	<= 800 W
SCAN SYSTEM	AT40K galvanometer
SCAN ANGLE	+/-30 degrees (60-degree total)
BEAM DIVERGENCE	< 1.6 mrad full angle
APERTURE SPOT	<= 6.5 mm at the aperture

PRO CONTROL	Professional stage-lighting system
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MODULATION	<= 100 kHz
DMX MODE	21CH delivered library mode
PROGRAM STORAGE	SD-card program editing with more than 128 beam/animation programs
PRODUCT SIZE	450 mm chassis dimension; 250 mm body height; 520 mm overall height including bracket
NET WEIGHT	22.5 kg
REAR PANEL	DMX IN/OUT, ILDA DB25 IN/OUT, function display, key control, power switch and locking power input/output
SAFETY SYSTEM	Delayed start, scan-failure protection, adjustable beam mask and key-controlled activation
CONTROL MODES	DMX512 / auto / sound active / master/slave / ILDA / SD-card playback

Dimensions, Packing & Product Data

Dimensions, weight and packing data for project planning

PRODUCT DATA



产品净重: 22.5kg

450 mm chassis dimension; 250 mm body height; 520 mm overall height including bracket

PRODUCT SIZE

22.5 kg

NET WEIGHT

Y-40W RGB Laser Light

PRODUCT DATA

Y-40W RGB Laser Light

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 & DMX Connection

Protective earth and screened DMX signal distribution



AC 110-250 V / DMX / ILDA / POWER

AC 110-250 V

INPUT VOLTAGE

50/60 Hz

FREQUENCY / SIGNAL

≤ 800 W

MAX INPUT POWER

21CH

DMX MODE

01 **Shielded DMX cable**

Use purpose-built shielded twisted-pair DMX cable.

02 **Address planning**

Assign non-overlapping start addresses for 21CH 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



21CH DMX & ILDA 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.

04

Assign address

Set the DMX start address for 21CH mode.

05

Test at low output

Check 40 W RGB / AT40K galvanometer / SD-card program editing with more than 128 beam/animation programs.

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 21CH 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

Y-40W RGB Laser Light



40 W RGB

LASER OUTPUT

21CH

DMX CONTROL

AT40K GALVO

SCANS SYSTEM

AC 110-250 V

INPUT VOLTAGE

40 W RGB

CORE EFFECT

ANIMATION

CORE FEATURE

PROFESSIONAL LASER OUTPUT. FLEXIBLE CONTROL.

Y-40W RGB Laser Light is a professional stage-effect platform combining 40 W RGB / AT40K galvanometer with DMX512 / auto / sound active operation.

YL AUDIO & LIGHTING

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YL AUDIO & LIGHTING

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