

H-40W RGB LASER LIGHT

PROFESSIONAL EDITION

H-40W RGB Laser Light is a professional stage-effect platform combining 40 W RGB / More than 128 built-in beam and animation programs with DMX512 / auto / sound active operation.

40 W RGB

LASER OUTPUT

21CH

DMX CONTROL

DT40K
galvanomet
SCAN SYSTEM
er



Product Positioning

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

01 Professional laser effects
H-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 / More than 128 built-in beam and animation programs / 21CH delivered library mode.

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

CORE VALUE

40 W RGB, 21CH DMX512 and flexible operation.



Key Performance

Core performance and system configuration



H-40W RGB LASER LIGHT

40 W RGB

LASER OUTPUT

21CH

DMX CONTROL

DT40K
galvanometer

SCAN SYSTEM

AC 90-250 V

INPUT VOLTAGE

40 W RGB

CORE EFFECT

PRO FEATURE

CORE FEATURE

BUILT FOR PROFESSIONAL LASER PROGRAMMING

40 W RGB / More than 128 built-in beam and animation programs / 21CH delivered library mode, supported by DMX512 / auto / sound active / master/slave / ILDA / SD-card playback for flexible show programming.

AC 90-250 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

40 W RGB

DMX CONTROL

21CH

SCAN SYSTEM

DT40K galvanometer

INPUT VOLTAGE

AC 90-250 V

CORE EFFECT

40 W RGB

FEATURE

PRO FEATURE

OPTICAL OUTPUT & HARDWARE 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

21CH DMX512 and multiple operating modes



DISPLAY / CONTROL / INTERFACE ARCHITECTURE

DT40K galvanometer

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 / More than 128 built-in beam and animation programs / 21CH delivered library mode 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



FRONT / OPTICAL OUTPUT



THREE-QUARTER / ENCLOSURE



SIDE OR REAR / MOUNTING



REAR / CONTROL & CONNECTIONS

Technical Specifications

Laser, movement, power and control data



MODEL	H-40W
LASER OUTPUT	40 W RGB
RGB ALLOCATION	R 638 nm / 10 W; G 520 nm / 15 W; B 445 nm / 15 W
INPUT VOLTAGE	AC 90-250 V, 50/60 Hz
MAX INPUT POWER	<= 550 W
SCAN SYSTEM	DT40K galvanometer
SCAN ANGLE	+/-30 degrees (60-degree total)
BEAM DIVERGENCE	< 1.6 mrad full angle

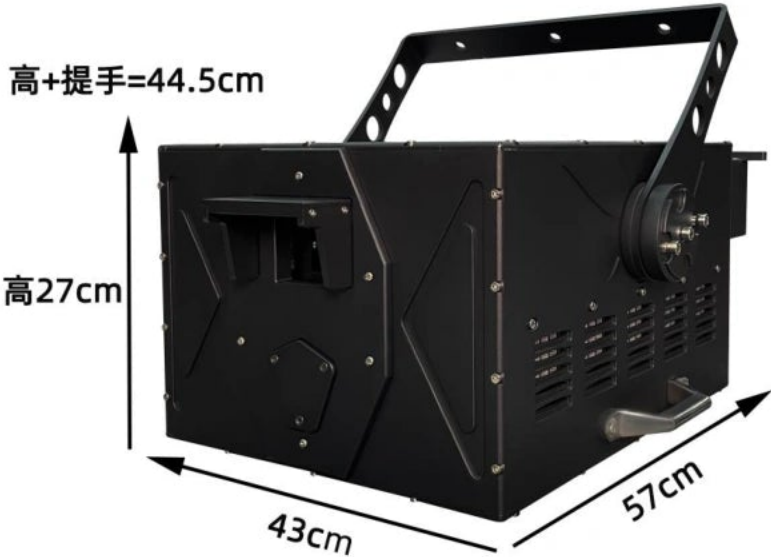
SAFETY SYSTEM	Delayed start, scan-failure protection, adjustable beam mask and key-controlled activation
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APERTURE SPOT	<= 6.5 mm at the aperture
MODULATION	<= 100 kHz
DMX MODE	21CH delivered library mode
CONTROL MODES	DMX512, auto, sound active, master/slave, ILDA and SD-card playback
PROGRAM STORAGE	More than 128 built-in beam and animation programs
PRODUCT SIZE	430 x 570 x 270 mm; 445 mm overall height including handle
NET WEIGHT	38 kg
FLIGHT CASE	690 x 470 x 360 mm; 480 mm overall height including wheels; 15.05 kg

Dimensions, Packing & Product Data

Dimensions, packing and transport information

PRODUCT DATA



产品净重：38KG

430 x 570 x 270 mm; 445 mm overall height including handle

PRODUCT SIZE

38 kg

NET WEIGHT

**690 x 470 x 360 mm
/ 15.05 kg**

FLIGHT CASE

H-40W RGB 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 90-250 V

INPUT VOLTAGE

50/60 Hz

FREQUENCY / SIGNAL

<= 550 W

MAX INPUT POWER

21CH

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 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 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.

04

Assign address

Set the DMX start address for 21CH mode.

05

Test at low output

Check 40 W RGB / More than 128 built-in beam and animation programs / 21CH 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 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

REAL APPLICATION PHOTOGRAPHY ILLUSTRATES SUITABLE VENUE TYPES

Product Summary

H-40W RGB Laser Light



40 W RGB

LASER OUTPUT

21CH

DMX CONTROL

**DT40K
galvanometer**

SCAN SYSTEM

AC 90-250 V

INPUT VOLTAGE

40 W RGB

CORE EFFECT

PRO FEATURE

CORE FEATURE

PROFESSIONAL LASER OUTPUT. FLEXIBLE CONTROL.

H-40W RGB Laser Light is a professional stage-effect platform combining 40 W RGB / More than 128 built-in beam and animation programs 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.