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LEDBeam 400™

With its lightning-fast movement and dramatically boosted output, LEDBeam 400™ takes everything that made the series so popular and supercharges it with a significantly more powerful LED engine - without compromising the compact size and portability that users love.



Light source
12x 55W RGBL multichips

Light output
52.000 lx @ 5m

Zoom range
3.8°-60°

Effects
Zone control, virtual colour wheel, tungsten lamp effect, ScreenPix™ display screen mapping

Harnessing 12× 55W RGBLime multichips, LEDBeam 400™ delivers an impressive 52.000 lx at 5 m from its compact 10,6 kg frame, with a power draw of just 550 W. The result - outstanding output efficiency, vibrant colours, and powerful illumination, all packed into the legendary small footprint of the LEDBeam series.

Using either RGBL or CMY colour control, a variable white CCT range from 1.800K to 10.000K delivers excellent colour reproduction with a CRI of up to 86. Combined with lamp-selectable tungsten emulation and the onboard virtual DataSwatch™ colour library, it enables precise colour creation, from delicate pastels to richly saturated hues.

The noise-dampened 16:1 optical system provides a standard LEDBeam zoom range of 3,8° to 60°, allowing rapid transitions from razor-sharp aerial beams to wide, smooth washes.

Two individually controllable segments create eye-catching effects, while ScreenPix™ enhances visual impact with multizone RGB control across the fixture display. Intuitive macro access unlocks a distinctive range of creative possibilities.

The LEDBeam 400™ features 18-bit L3™ Low Light Linearity dimming software, delivering ultra-smooth fades and transitions. For added theatricality, an FW (Fresnel Wash) version includes a 2° diffuser for beautifully softened tight beam edges.

Aiding fast fixture exchange within the LEDBeam family, a Series Mode provides a common fixture personality, enabling seamless swapping of fixtures without repatching or reprogramming the show.

An optional Epass™ Ethernet pass-through switch to maintain network integrity when powered down, along with optional CRMX wireless DMX control.

Protecting your investment, Robe's RLCT™ lens coating protects the optics by resisting scratches, repelling dust through its anti-static properties, and keeping lenses cleaner for longer, extending periods between maintenance.

LEDBeam 400™ – Pack more, punch stronger!

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Technical Specification

Source

Light source type: 12x 55W RGBL multichips

LED life expectancy: min. 50.000 hours

Typical lumen maintenance: L70/B50 @ 50.000 hours

Optical system

Robe's proprietary optical design

High-efficiency zoom optical system, ratio 16:1

Zoom range: 3,8°-60°

Fixture total lumen output:

- 12.500 lm (integrating sphere)
- 10.100 lm (goniphotometer)

Illuminance: 52.000 lx @ 5 m

RLCT™ Innovative lens coating technology

Dynamic Effects and Features

Colour mixing mode RGBL or CMY

2 individually controllable segments (1 outer ring and 4 middle pixel)

White light: Variable CCT 1.800K–10.000K

DataSwatch™ filters: pre-programmed 66 colours and tones including most used whites 2.700K, 3.200K, 4.200K, 5.600K and 8.000K
Motorised zoom

Tungsten lamp effect: 750W, 1.000W, 1.200W, 2.000W, 2.500W lamp emulation for whites from 2.700K to 4.200K (red shift and thermal delay)
Pre-programmed random strobe & pulse effects

High resolution electronic dimming: 0–100 %

L3™ - (Low Light Linearity) Imperceptible 18 bit dimming for ultra smooth fade to black

Cpulse™ special flicker-free management for HD and UHD cameras, ready for 8K and 16K

ScreenPix™ - Elevates visual impact with multi-zone RGB control across each fixture display screen - all with intuitive macro control

Control and programming

Setting & Addressing: ROBE Navigation System 3 (RNS3)

Display: QVGA Robe screen with battery backup, gravitation sensor for auto screen positioning, operation memory service log with RTC, built-in analyser for easy fault finding
Epass™: Ethernet pass through switch which sustains Ethernet integrity, when the fixture has no power, to automatically maintain network connectivity - on request
Protocols: USITT DMX-512, RDM, ArtNet, MA Net, MA Net2, sACN

REAP™ - Robe Ethernet Access Portal

Wireless CRMX™ technology from Lumen Radio - on request

DMX Protocol modes: 3

Control channels: 22, 27, 50

Pan & Tilt resolution: 16 bit

RGBL/CMY: 16 bit

Zoom: 16 bit

Dimmer: 16 bit (internal 18 bit)

Movement

Pan movement: 540°(standard)

Tilt movement: 228°

Movement control: Standard and Speed

Controllable speed of Pan & Tilt movement

Automatic Pan & Tilt position correction

Thermal specification

Maximum ambient temperature: 45 °C (113 °F)

Maximum surface temperature: 80 °C (176 °F)

Minimum operating temperature: -5 °C (23 °F)

Total heat dissipation: max. 1.407 BTU/h (calculated)

Noise Levels

Sound pressure level:

- 19 dB(A) at 1 m (quiet mode)
- 26 dB(A) at 1 m (auto mode)

Sound power level:

- 27 dB(A) (quiet mode)
- 34 dB(A) (auto mode)

Electrical specification and connections

Power supply: Electronic auto-ranging

Input voltage range: 100–240 V, 50/60 Hz

Power consumption: Max. 550 W

Power connector In/Out: TRUE1 Compatible

DMX and RDM data In/Out: Locking 5-pin XLR

Ethernet port In/Out: RJ45, for Embedded Epass™ switch 10/100 Mbps - on request

Approvals

CE Compliant

cETLus Compliant

UKCA Compliant

Environmental Information

GWP (Global Warming Potential) total in modules A1-A3 (according LCA): 238 Kg CO2e

EPD registration number: EPD-IES-0011285:002 (S-P-11285)

Mechanical specification

Height: 415 mm (16,3")

Width: 320 mm (12,6")

Depth: 229 mm (9")

Weight: 10,6 kg (23,37 lbs)

Ingress protection rating: IP20

Rigging

Mounting points: 1 pair of 1/4-turn locks

2x Omega adaptor with 1/4-turn quick locks

Universal operating position

Safety cable attachment point

Included items

User Manual

Omega Adaptor CL-regular (2 pcs): 10980033

Optional accessories

Daisy Chain:

- powerCON TRUE1 In/Out EU 2 m: 13052439
- powerCON TRUE1 In/Out US 2 m: 13052440
- powerCON TRUE1 In/Out EU 5 m: 13052444

Doughty Trigger Clamp: 17030386

Safety Wire 36 kg: 99011963

EggCrate: 10980560

Diffusion Filter 2° (FW): 10980559

Mounting Adapter for one omega holder:

- black: 10980100
- white: 10980129
- neutral: 10980113

Mains Cable:

- powerCON TRUE1 In/Schuko 2 m: 13052405
- powerCON TRUE1 In/US 2 m: 13052406
- powerCON TRUE1 In/CEE 2 m: 13052445
- powerCON TRUE1 In/open ended 2 m: 13052407

Omega Adaptor T CL (2pcs): 10980184

Single Top Loader Case: 10120432

Quad Top Loader Case: 10120433

Foam Shell: 20020566

Legal

LEDBeam 400™ is a Trademark of ROBE lighting s.r.o.

LEDBeam 400™ is patented by ROBE lighting s.r.o. and is protected by one or more pending or issued patents