ROBE lighting s .r. o., Hazovice 2090
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Square™

The ROBE Square™ offers new exciting possibilities by combining video projection, pixel animations, beam effects and LED wash light all in a continuous rotation movement fixture.
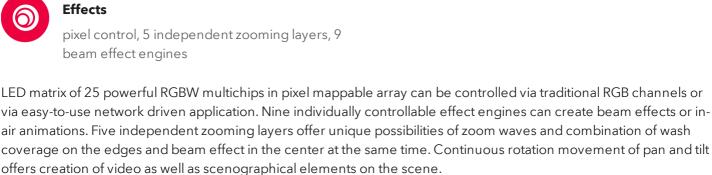
Light source

25x 30 W RGBW multichips

Light output

35.000 lx @ 5 m / 6.960 lm

Zoom range

Zoom range (5 LED lines ON): 4°-48° (60° with 2 LED lines ON)

Effects

pixel control, 5 independent zooming layers, 9 beam effect engines

LED matrix of 25 powerful RGBW multichips in pixel mappable array can be controlled via traditional RGB channels or via easy-to-use network driven application. Nine individually controllable effect engines can create beam effects or in-air animations. Five independent zooming layers offer unique possibilities of zoom waves and combination of wash coverage on the edges and beam effect in the center at the same time. Continuous rotation movement of pan and tilt offers creation of video as well as scenographical elements on the scene.

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Technical Specification

Source

- Light source type: 25x 30 W RGBW multichips
- Fixture total lumen output: 6.960 lm
- Light output: 35.000 lx @ 5 m
- LED life expectancy: minimum 20.000 hours
- Typical lumen maintenance: 70% @ 20.000 hours

Electromechanical effects

- High efficient component optics
- Optical lenses with compensated colour aberration
- Zoom range (5 LED lines ON): 4°-48° (60° with 2 LED lines ON)
- 5 independent zooming modules, each module consisting of 5 LEDs in linear configuration
- 9 independently controllable beam effect engines, creating dynamic rays of microbeams in the air
- Individual control of each RGBW pixel
- Colour mixing system: RGBW/CMY
- Variable CTO
- Virtual colour wheel with pre-programmed: 237 colours including whites (2.700 K, 3.200 K, 4.200 K, 5.600 K, 8.000 K)
- Tungsten lamp effect at whites 2.700 K and 3.200 K (red shift and thermal delay during dimming)
- Colour rainbow effect with variable speed
- Pre-programmed pixel effects with colour, dimming and strobe chases, waves and pulses at variable speed and directions
- High resolution dimmer: 0-100%
- Strobe effect: variable speed (max. 20 flashes per second)
- Preprogramed random strobe & pulse effects

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Control and programming

- Setting & Addressing: Robe Navigation System 2 (RNS2)

- Protocols: USITT DMX-512, RDM, Art-Net, MA Net, MA Net2, sACN, Kling-Net

- Optional wireless version available: CRMX™ technology from Lumen Radio

- Control channels: 24, 43, 118

- Protocol modes: 3

- Programs: 3 editable programs, each up to 100 steps

- Stand alone operation

- Display: QVGA Robe touch screen with battery backup, gravitation sensor for auto screen positioning, operation memory service log with RTC

- Pan/Tilt resolution: 16 bit

- Zoom: 8 bit

- R,G,B,W colour mixing (internal 18 bit): 8 or 16 bit

- Dimmer (internal 18 bit): 8 or 16 bit

- Ethernet port: Art-Net, sACN, Kling-Net

- Ethernet switch: 10/100 Mbps: 1 x In/1 x Out

- Data in/out: Locking 3-pin & 5-pin XLR

- Built-in analyser for easy fault finding

Thermal specification

- Maximum ambient temperature: 40 °C (104 °F)

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

Electrical specification

- Power supply: Electronic auto-ranging

- Input voltage: 100-240 V AC, 50-60 Hz

- Power consumption: max. 800 W

- Power in: Neutrik PowerCon True1

Approvals

- CE Compliant

- cETLus (pending)

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Mechanical specification

- Height: 700 mm (27.6")
- Width: 559 mm (22.0")
- Depth: 321 mm (12.6")
- Weight: 36.5 kg (80.5 lbs)

Movement

- Pan movement range 360° with continuous rotation control
- Tilt movement range 360° with continuous rotation control
- 16 bit movement resolution
- Automatic Pan/Tilt position correction

Rigging

- Mounting points: 2 pairs of 1-turn locks
- Omega brackets: 2x Omega bracket with 1-turn quick locks