

## 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. 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.



## Source

- Light Source Type: 25x 28W RGBW multichips
- Light Output: 35.000 lx @ 5 m
- LED Life Expectancy: minimum 40 000 hours
- Typical Lumen Maintenance: 70% @ 40 000 hours

## Electromechanical Effects

- High efficient component optics
- Optical lenses with compensated colour aberration
- Zoom range: 4°-38°(60° with 2 LED lines On only)
- 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

## Thermal Specification

- Maximum ambient temperature: 40 °C (104 °F)
- Maximum surface temperature: 75 °C (167 °F)

## Movement

- Pan movement range 540° with continuous rotation control

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

## 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
- Power in: Neutrik PowerCon
- 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

## Electrical Specification

- Power supply: Electronic auto-ranging
- Input Voltage: 100-240 V AC, 50-60 Hz
- Power Consumption: max. 800 W
- Power Connector: Neutrik PowerCon
- Approvals: ETL (pending)



## Mechanical Specification

- Height: 699 mm (27.5")
- Width: 542 mm (21.3")
- Depth: 263 mm (10.4")
- Weight: 36.5 kg (80.5 lbs)

## Rigging

- Mounting points: 2 pairs of 1-turn locks
- Omega Brackets: 2x Omega bracket with 1/4-turn quick locks