

# MAGICDOT R



**AYRTON**  
Digital Lighting

**Lumens****1,600****Kelvin****-****CRI****< 86****Beam****4.5°**

## MAGICDOT R

Creative solutions

015150

A new member of the RADICAL product line, MAGICDOT R is the first professional moving head LED luminaire with a single optical collimator. The new high-efficiency optical system measuring 94 mm in diameter and weighing over 200 grammes required more than two years of development and perfection. The result is an intense beam of less than 5° using a multi-chip RGBW LED with a light-emitting surface of 8 mm<sup>2</sup>. With its minimalist cylindrical design, the innovative MAGICDOT R, capable of continuous double rotation on the pan & tilt axes, allows the user to create groups of luminaires and control each light emitter individually in all directions. Leaving a minimum amount of space between multiple luminaires will make it possible to create configurations never before dreamt of.

Highly compact, light, ultra-fast and powerful, the MAGICDOT R is equipped with a new 60 W RGBW multi-chip LED emitter paired with a 94 mm high-efficiency collimator. The fixture offers an overall luminous flux of 1,600 lumens and a luminous intensity of 180,000 candela for an overall consumption of only 130 W. This new high-power LED source has required implementing a special phase-change liquid cooling system using a heat pipe. MAGICDOT R is the ideal tool for creating moveable virtual sets and complex light compositions with multiple beams.

## OPTICS

- Beam aperture: 4.5°
- 85% optic efficiency
- 94 mm PMMA collimator optic

## LIGHT SOURCE

- 2,000 lumens RGBW LED source
- Luminaire output: up to 1,600 lumens
- Luminous intensity: 180,000 cd
- CRI: up to 86
- Rated life (L70): up to 40,000 hours
- Flicker-free source

## MOVEMENT

- Highly accurate positioning
- Resolution: 8- or 16-bit
- Smooth movement
- Pan and tilt with automatic repositioning
- Range: infinite pan & tilt rotation

## COLOURS

- Sophisticated 4 colours RGBW mixed
- 4.29 billion colours (8 bit resolution)
- Virtual colour wheel
- Dynamic colour macro effect

## DIMMER / STROBE

- Electronic dimmer from 0 to 100%
- Strobe effect: 1 to 25 flashes per second

## HARDWARE FEATURES

- Graphic LCD display with flip function
- 6 menu buttons to set the functions
- XLR 5 pin connectors
- powerCON TRUE1 connectors

## CONTROL

- DMX 512 protocol
- DMX-RDM compatible
- Stand-alone mode, local control panel
- 2 DMX modes (15 to 17 DMX channels)

## POWER SUPPLY

- 100 to 240 Volts – 50/60 Hz
- Power: 130 W maximum

## COOLING SYSTEM

- Advanced liquid cooling system
- Self-adjusting variable speed fans
- Selectable ventilation user modes
- Excess-temperature protection

## HOUSING

- Skeleton in aluminium and steel plates
- Moulded covers in ABS PC (V0 class)
- Two-side handles
- Four heavy-duty feet
- IP20 protection rating
- Exterior finish: black (Carbon)

## INSTALLATION

- One Omega ¼ turn brackets
- Two ¼ turn mounting points
- Safety cable attachment point

## OPERATING PARAMETERS

- Maximum temperature: 45 °C (113 °F)
- Minimum temperature: -10 °C (14 °F)
- Minimum usage distance: 1.0 m (3.28 ft)

## COMPLIANCE

- EMC Directive 2014/30/EU
- LVD Directive 2014/35/EU

## SIZE

- Product: 210 x 318 x 210 mm (l x h x d)
- Foam: 251 x 330 x 251 mm (l x h x d)

## WEIGHT

- Product: 5.3 kg

## PRODUCT CODE

- 015150: MAGICDOT R



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[www.ayrton.eu](http://www.ayrton.eu)