

# MAGICDOT-R



**AYRTON**  
Digital Lighting

# MAGICDOT-R CREATIVE SOLUTIONS

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 (patent pending), 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 Watt RGBW multi-chip LED emitter paired with a 94 mm high-efficiency collimator. The fixture offers an overall luminous flux of 1,800 lumen and a luminous intensity of 180,000 candela for an overall consumption of only 130 Watt. This new high-power LED source has required implementing a special phase-change liquid cooling system using a heat pipe. The 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
- High-efficiency 94 mm PMMA optics

## LIGHT SOURCE

- 1 multi-chip 60 Watt LED source
- Light output: up to 1,800 lumen
- Luminous intensity: 180,000 cd
- Rated sources life: up to 50,000 hours
- Flicker free sources management, suitable for TV applications and all video recorded events

## MOVEMENT

- Continuous pan and tilt rotation
- Extremely accurate positioning
- Moving-head operated via either 8 or 16 bit resolution
- High-resolution stepper motors operated via microprocessors ensure extreme accuracy and smooth movements.
- Pan and tilt automatic repositioning

## COLOURS

- Sophisticated 4 colours RGBW mixed, reaching high Colour Rendering Index
- Uniform light beam with no colour shadows, and rich saturated and pastel colour-hues
- 4.29 billion colours (8 bit resolution)
- Virtual colour wheel, including most usuals white colour temperature presets
- Dynamic colour macro effect with variable speed

## DIMMER / STROBE

- Electronic dimmer, allowing perfect light adjustment from 0 to 100% without colour variation
- White or colour strobe effect, with speed adjustment from 1 to 25 flashes per second

## SOFTWARE FACILITIES

- Local DMX addressing of the luminaire and its optional parameters through its built-in LCD panel control
- Remote DMX addressing of the luminaire and its optional parameters through a standard RDM DMX controller
- Information menu including hour counter, temperature, software version

## HARDWARE FACILITIES

- Graphic LCD display for addressing and special functions settings, with flip function
- 6 menu buttons to set the functions
- Over temperature protection
- XLR 5 pin male and female connectors for DMX connection
- PowerCON TRUE1 male and female connectors for power connection

## CONTROL

- DMX 512 protocol, through DMX cable
- DMX-RDM compatible
- Stand-alone mode and Master/Slave modes
- Local control panel, with LCD display
- Choice of 2 DMX modes (from 15 to 17 DMX channels)

## POWER SUPPLY

- Electronic supply with active PFC
- 110 to 240 Volts - 50/60Hz
- Power 130 Watt max

## COOLING SYSTEM

- Advanced cooling system based on heatpipe technology
- Self adjusting variable speed fans for quiet operation (Auto mode)
- Selectable auto, stage & studio ventilation modes
- Safety protection against temperatures excesses

## HOUSING

- Moving-head skeleton made of aluminium and steel metal plates
- Heatsinks in aluminium and copper, satin finish
- Moulded covers in self-extinguishing fire retardant ABS PC (V0 class)
- Two sides handles for transportation
- IP20 protection rating
- Exterior finish: black (Carbon)

## INSTALLATION

- Fastening brackets system: one Omega ¼ turn brackets designed for use with standard clamps
- Mounting points: two ¼ turn locking fittings allowing installation of Omega bracket on luminaire
- Safety cable attachment point

## OPERATING PARAMETERS

- Operating positions: all (device on floor or fixed to a support)
- Maximum permitted ambient temperature (T<sub>a</sub> max): 45°C (113°F)
- Minimum permitted ambient temperature (T<sub>a</sub> min): -10°C (14°F)
- Minimum usage distance: 1.0 m (3.28 ft)

## COMPLIANCE

### EU (EMC)

- EN 55015 (2006) - EN 55015 A2 (2009)
- EN 61547 (2009) - EN 61000-3-2 (2006)
- EN 61000-3-2 A2 (2009) - EN 61000-3-3 (2008)

### EU (LVD)

- EN 60598-1 (2008) - EN 60598-2-17 (1989)
- EN 60598-2-17 A2 (1991)

## SIZE

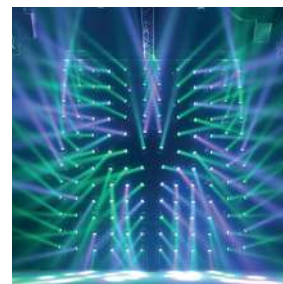
- Product: 210 x 318 x 210 mm (l x h x d)
- Flight-case foam: 251 x 330 x 251 mm (l x h x d)

## WEIGHT

- Product: 5.3 KG

## PRODUCT CODES

- 015150: MAGIDOT-R CREATIVE SOLUTION





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