

# MAGICDOT NEO



**AYRTON**  
Digital Lighting



# MAGICDOT NEO

Classical Creative Series

**Illuminance at 5m**  
**16,000 lx**

**Variable CRI**  
**> 86**

**Front Lens**  
**100 mm**

**Zoom Aperture**  
**3 ° to 30 °**

**IP Rating**  
**IP65**

**Weight**  
**6.6 kg**



Very compact, lightweight, ultra-fast and powerful, MagicDot Neo represents the ultimate evolution of this innovative family of fixtures. Designed for stage lighting and engineered for mixed indoor and outdoor use—even in saline environments—it features a brand-new 120 W multi-chip RGB-L LED source paired with a high-efficiency 100 mm optic, delivering a total output of 3,000 lm for just 160 W of power consumption. The high output of this LED source required a bespoke cooling solution based on a phase-change heat pipe. MagicDot Neo switches from Beam to Wash in an instant, offers a 10:1 zoom ratio and covers a wide beam angle from 3 ° to 30 °. Continuous dual rotation on the pan and tilt axes allows fixtures to be clustered so that each light source can be individually controlled in every direction, and the minimal spacing between units makes previously impossible configurations achievable.

The intense beam, combined with the High-Definition Liquid effect—featuring 60 RGB LEDs around the beam's periphery—creates mesmerising multi-colour effects. MagicDot Neo generates organic light and astonishingly complex volumetric effects, enabling truly breathtaking stage presentations. Extensive Ethernet connectivity supports unlimited system configurations. By drastically reducing the thickness of aluminium components, optimising the cooling system, simplifying lens mounts and integrating low-density optical parts, the overall weight has been significantly reduced to just 6.6 kg. The fixture's performance stems from its singular design, extreme miniaturisation and minimalist cylindrical form. Enter a new creative sphere that is as inspiring as it is radical. An elegant, meticulously crafted projector with a unique visual signature, MagicDot Neo is the obvious choice—a technological powerhouse in a compact package, capable of delivering spectacular stage effects.

## OPTICS

- 2-elements 10:1 zoom
- Beam aperture: 3° to 30°
- Fast motorised linear zoom
- 100 mm front lens

## LIGHT SOURCE

- 5,000 lm RGB-L LED source
- Total luminaire output: up to 3,000 lm
- Illuminance at 5m : 16,000 lux
- 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 automatic repositioning
- Range: infinite pan and tilt rotation

## COLOURS

- Sophisticated 4 colours RGB-L mixed
- 4.29 billion colours (8-bit resolution)
- Virtual CTC channel
- Virtual Tint channel

## EFFECTS

- Liquid Effect with 60 pixels
- Built-in pattern effects

## DIMMER / STROBE

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

## HARDWARE FEATURES

- Graphic LCD display with flip function
- 4 menu buttons to set functions
- Integrated LumenRadio™ receiver
- IP65 XLR 5 pin connectors
- IP65 RJ45 connectors
- IP65 powerCON TRUE1 connectors

## CONTROL

- DMX 512 protocol
- DMX-RDM compatible
- Stand-alone mode, Local control panel
- ArtNet & sACN protocol
- Footprint of 35 DMX channels

## POWER SUPPLY

- 100 to 240 Volts – 50/60Hz
- Power: 160 W maximum

## COOLING SYSTEM

- Advanced liquid cooling system
- IP68 Self-adjusting variable speed fans
- Selectable ventilation user modes
- Excess-temperature protection

## HOUSING

- Skeleton made of aluminium
- Base in die-cast aluminium
- Heatsinks in aluminium and copper
- Moulded covers ABS PC (VO class)
- Two handles on the yoke
- Four heavy-duty feet
- IP65 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: -20 °C (-4 °F)
- Minimum usage distance: 0.5 m (1.64 ft)

## COMPLIANCE

- EMC Directive 2014/30/EU
- LVD Directive 2014/35/EU
- US Safety: UL 1573 & FCC Part 15, Subpart B: 2018
- Substance regs: RoHS, REACH, CP65

## SIZE

- Product: 197 x 353 x 197 mm (l x h x d)
- Dual Polyfoam: 500 x 310 x 250 mm (l x h x d)

## WEIGHT

- Product: 6.6 kg

## PRODUCT CODE

- 015180: MagicDot Neo IP65



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