

# NANDOBEAM-S3



**AYRTON**  
Digital Lighting

# NANDOBEAM-S3 AUTOMATED LUMINAIRES

NANDOBEAM™S3 is a powerful and ultra-fast moving-head in a compact housing. Its advanced and highly efficient proprietary optical system, coupled with state-of-the-art 15 Watt RGBW LED emitters, delivers an 8° narrow beam as well as 40° wide coverage. The quality of its colour-mixing makes the NANDOBEAM™S3 capable of handling even the most demanding environments. The choice of light sources and colour selection was made in collaboration with lighting designers to meet the needs of the entertainment industry.

The main benefit of the optical zoom system, which was developed especially for the NANDOBEAM™ product line, is a constant efficiency regardless of the zoom aperture: NANDOBEAM™S3 delivers a 4,000 lumen output across its full beam range.



Its narrow angle gives a particularly effective and very powerful tight beam, while its wide angle works well for wash purposes, making NANDOBEAM™S3 the perfect lighting tool for a wide range of applications. NANDOBEAM™S3's arrangement of two rings of individually controlled LED emitters around a central LED renders it extremely versatile when operated in Expanded Full Colour mode.

Effects capabilities can be coupled with Beam, Wash or Matrix applications to produce superb results whether performing in front of the audience or camera. NANDOBEAM™S3 is equipped with new generation three-phase stepper motors that allow the quick and precise movement essential for NANDOBEAM™S3's performance. These extremely compact new motors fit perfectly into the minimalist design of the luminaire.





## OPTICS

- Motorized linear zoom system, ratio 5:1
- Beam aperture: 8° to 40°
- High-efficiency optical system

## LIGHT SOURCE

- 19 multi-chip 15 Watt LED sources
- Light output: up to 4,000 lumen
- Luminous intensity: 100,000 cd (narrow angle)
- Rated sources life: up to 50,000 hours
- Flicker free sources management, suitable for TV applications and all video recorded events

## MOVEMENT

- 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
- Moving-head range: 540° (pan), 270° (tilt)

## 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
- Built-in pattern effects with speed and fade controls for scenic applications
- 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 3 DMX modes (from 17 to 28 DMX channels)

## POWER SUPPLY

- Electronic supply with active PFC
- 110 to 240 Volts - 50/60Hz
- Power 300 Watt max

## COOLING SYSTEM

- Advanced cooling system
- 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 made from extruded aluminum, satin finish
- Moulded covers in self-extinguishing fire retardant ABS PC (V0 class)
- Two sides handles for transportation
- Four strong wide feet for better stability
- IP20 protection rating
- Exterior finish: black (Carbon)

## INSTALLATION

- Fastening brackets system: one stage Omega ¼ turn bracket designed for use with standard clamp
- 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 (Ta max): 45°C (113°F)
- Minimum permitted ambient temperature (Ta 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

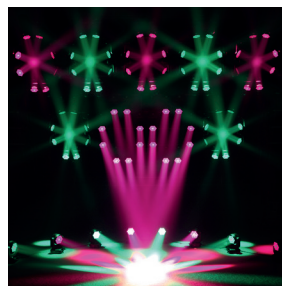
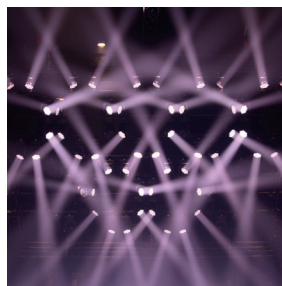
- Product: 288 x 380 x 220 mm (l x h x d)
- Flight-case foam: 350 x 410 x 280 mm (l x h x d)

## WEIGHT

- Product: 9.1 KG

## PRODUCT CODES

- 013350: NANDOBEAM-S3 AUTOMATED LUMINAIRE





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