

DRAGON 1600-W BWSF

Model: PR-6517

RoHS | CE |  | WDMX |  10m |  IP₆₆ | T_c70°C | T_a45°C | 

Version: 20260610

Moving Heads



DRAGON 1600-W BWSF(four in one) is an underwater fixture with Beam, Spot, Framing and Wash functions using a 700W white LED engine as its light source, the 1st product of the industry and filling a market gap. It is very powerful, energy saving and environmentally friendly with high illuminance, silent operation, compact size, long lifespan, low luminous decay and efficient cooling. Designed to meet very intensive beam requirement for underwater operation, it has beam angle from 5° to 60° with CMY, CTO, color wheel, rotating gobos, full curtain function by framing blades, 360° continually rotating framing module, prism, frost filter and other functions.

IP68, BWSF



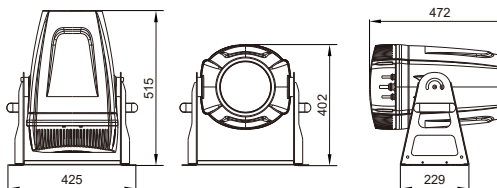
Rotating gobos(Ø24mm, image Ø18mm)



Color wheel



Fixed gobos



23Kg
Size(mm)

Specifications

- The product is with a separate power supply unit.
 - 1.The underwater head
Input voltage: DC 48V
Ingress protection:IP68 (for underwater running)\
Electric shock protection class: III class lighting fixture(Safe low voltage/SELV, no electric shock)
Standards: as per IEC 60598-1 and GB/T 50034-2024, DC 60V and lower is safe low voltage/SELV. And DC 48V is safe voltage and without electric shock under normal operation.
 - 2.Power supply control box
Input voltages : 100V~240V AC, 50/60Hz
Input Power : 800W @ 220V
Power factor : PF> 0.95
Max. Current: 3.6 A @ 220V
Output voltage: DC 48V
Output current: 16.7A@48V/DC
Ingress protection:IP66 (waterproof for outdoor application, not for underwater running)
- Light sources specifications(Yellow)
 - Power consumption : 700W, White LED module
 - Color Temperature : 8000K
 - Manufacturers Rated Lamp Life : more than 20000hrs
 - CRI : Ra ≥ 70 (Optional high CRI version Ra ≥ 96 , R9 ≥ 95)
- Colors
 - CMY color mixing system with macros
 - 1 Color wheel: 7colors+Open,
 - Half color, bi-directional rainbow effect at variable speeds,
 - Stepping/linear color changing
- CTO
 - Linear CTO system(0-100%, 1800K - 6500K)
- FRAMING
 - 1 Framing Module: 4 Framing Blades
 - Framing Module continual(360°) rotation with many graphics of different sizes and shapes
 - 4 Framing blades to make full curtain effect
- Gobos wheel
 - 1 Rotating gobo wheel: 8Rotating Gobos +Open
 - Bi-directionally rotatable, and shakable at variable speeds
 - Gobo Replaceable, Gobo diameter: Φ24mm ,Gobo image diameter: Φ18mm
- 1 fixed gobo wheel(optional):4 fixed Gobos + Open
- Bi-directionally rotatable, and shakable at variable speeds
- Effect wheel
 - Bi-directional rotation at variable speeds
- Iris
 - 5-100% linear with macros
- Prism
 - 1pc, 3-facet circular prism, bi-directional rotation at variable speeds with indexing function
- Frost
 - 1 frost filter ,0-100% linear
- Beam angle
 - 5°~60°,linear with 16 bit control
- Focus
 - DMX linear with auto focus function
- Dimmer
 - Linear electronic dimmer 0-100% with 16 bit control
 - 3 dimmer speeds
 - 5 dimmer curves
 - Dimmer frequency(1.2K-25K) good for 4K high speed video camera
- Strobe
 - Electronic strobe 0.3~25 Hz, optional pulse, synchronized or non-synchronized strobe at slow, medium and fast speeds
- Head movement
 - Tilt: ±100°
- Advanced macros
 - Color temperature macros: optional
 - 2700K,3000K,3500K,4000K,4500K,5000K,5700K
 - Standard color macros: 89 color options based on standard color chart.
- CRI mode
 - Running at high CRI mode via DMX channel to ensure high CRI optical effect.
- Brightness calibration function
 - With brightness calibration function to calibrate initial brightness for a single fixture or multiple ones and store brightness values into the fixtures
- Control
 - International standard DMX512 signal and RDM function
 - 32channels in short mode, 38channels in standard mode,51channel in extended mode
 - Master/Slave mode
 - Standalone mode
 - Master Mode
- Control interface
 - DMX512 ports(5-pin)
- Other functions
 - Modular construction for easy maintenance,
 - DMX channel voltages monitoring
 - Firmware upgrade via DMX cable
- Housing
 - The housing of the head: ABS or stainless steel, IP68 , for landscape, entertainment ,cultural tourism and other underwater applications.
 - The material for power supply control box: Aluminum, IP66, installed in safe areas, forbidden for underwater applications
- Ambient temperature
 - The head : the depth under water ≤5m , the temperature of water 0°C~40°C
 - The power supply control box: -20°C~40°C
- Weight
 - Net weight of the head 23KG
 - Net weight of the power supply control box 7KG
 - Gross weight in the carton:33KG
 - (head+ power supply control box)