

# ESPRITE™ FS

The revolutionary ESPRITE™ Profile is now available in a Follow Spot version to seamlessly integrate into the award-winning Robe RoboSpot™ system.

**Light source**

TE™ 650W White LED TRANSFERABLE ENGINE

**Light output**

up to 34.000 lm, 85.000 lx @ 5m, Cpulse™ special flicker free management for HD and UHD cameras, ready for 8K and 16K

**Zoom range**

5.5° - 50°

**Effects**

Framing shutters, Cpulse™ - Flicker Free Management



The ESPRITE FS is equipped with a digital camera, mounted on the head, allowing it to be connected to the Robe RoboSpot™ Base Station for remote Follow Spot control.

With our unique, ground-breaking TRANSFERABLE ENGINE technology, you have a choice of engines. The TE™ 650W HP White LED Engine (HP - High Performance), producing the highest output possible, or the TE™ 650W HCR White LED Engine (HCR - High Colour Rendition) for those requiring exceptional colour quality. Now you can fit either engine within the same fixture, without alignment or warranty issues, within five minutes! Without the expense, and complication of needing to have separate luminaires with differing sources, TRANSFERABLE ENGINES give you the right engine, in the right fixture, at the right time!

The revolutionary self-referencing, data capturing engines are all designed, developed and manufactured within our own factory (Patents pending). Performance has not been compromised, with the TE™ 650W HP White 6.700 K LED Engine producing a piercing 34.000 lm and the TE™ 650W HCR White 6.000 K LED Engine 22.000 lm with its exceptionally high inherent CRI of 94. The L70/B50 ratings of 50.000 hours, means longevity is assured.

This is enhanced by our legendary precision optics to produce crystal clear white light, ideal for Follow Spot applications. The comprehensive feature set is all available on the FS version and includes: Flat field CMY mixing; variable CTO; remotely selectable CRI 70/80/90 (HP Engine); two fast colour wheels; one indexable and rotatable gobo wheel; a fixed gobo wheel CTO filters; 6-facet rotating prism; 1° soft edge and 5° wash type frosts; an animation wheel and spectacular multi-colour effects. Quick, accurate, easy framing is provided, if required, via our patented fast framing shutter module with individual blade control and +/-60° rotation capability for extra fine control. ESPRITE Profile by design removes any airflow over the optics, resulting in reduced residue deposits thus extending periods between cleaning.

By including Cpulse™ flicker-free management system for the latest cameras, and our L3™ Low Light Linearity dimming for ultra-smooth fade to black for seamless integration into traditional lighting rigs, you have a feature rich, very high output, long lasting, future proof package ideal for Follow Spot applications in a compact 29.4 kg housing.

# Technical Specification

## Source

- Light source type: TE™ 650W HP White LED Engine
  - HP - High Performance Engine for maximum light output and optimal colour characteristics
  - LED Engine output: 55.000 lm
  - Fixture total lumen output:
    - 34.000 lm (integrating sphere)
    - 27.000 lm (goniophotometer)
  - Colour temperature output: 6.700 K
  - CRI: 70, remotely selectable filters for CRI 80 and CRI 90
  - Illuminance: 85.000 lx @ 5 m
- Light source type: TE™ 650W HCF White LED Engine
  - HCF - High Colour Fidelity Engine for the best light quality and colour reproduction
  - LED Engine output: 33.000 lm
  - Fixture total lumen output:
    - 22.000 lm (integrating sphere)
    - 17.000 lm (goniophotometer)
  - Colour temperature output: 6.000 K
  - CRI: 94, TLCl: 91, TM-30-18 Rf: 90, TM-30-18 Rg: 98
  - Illuminance: 52.000 lx @ 5 m
- LED life expectancy: min. 50.000 hours
- Typical lumen maintenance: L70/B50 @ 50.000 hours
- Light source warranty: 4 years or 20.000 hours

## Optical system

- Robe's proprietary optical design
- High-efficiency 13-lens zoom optical system, ratio: 9:1
- Zoom range: 5.5° - 50°
- Output lens diameter: 150 mm

## Dynamic Effects and Features

- Cyan: 0 - 100%
- Magenta: 0 - 100%
- Yellow: 0 - 100%

- Variable CTO: 3.000K - 6.700K
- + - Green correction function
- Colour Wheel 1: 5 fixed dichroic colours + white
- Colour Wheel 2: 5 fixed dichroic colours + white
- Framing shutters : Patented framing shutters module with 4 individually positionable blades plus rotation of the complete frame system +-60°
- Rotating gobo wheel: 7 rotating, indexable and replaceable breakup and aerial gobos + open, patented slot & lock system
- Static gobo wheel: 9 static and replaceable gobos + open
- Animation wheel: Aluminium animation wheel, used alone or in combination with gobos, rotating in both directions at variable speed
- Prism: 6-facet prism rotating in both directions at variable speed
- Iris: Motorized, stepless, pulse effects up to 3 Hz
- Frost: light 1° for instant softening of the projected gobo or framing shutters and medium 5° for even wash
- Hot-Spot: from flat field to 6:1 hot-spot
- Motorized zoom and focus
- Electronic strobe effect with variable speed up to 20 Hz
- High resolution electronic dimming: 0 - 100%
- L3™ - (Low Light Linearity) Imperceptible 18 bit dimming for ultra smooth fade to black
- Cpulse™ special flicker free management for HD and UHD cameras, ready for 8K and 16K
- AirLOC™ (Less Optical Cleaning) technology greatly reduces the level of airborne particles drawn over the optical elements. This increases the overall performance, light quality and time between routine cleaning and maintenance.

## Control and programming

- Setting & Addressing: ROBE Navigation System 2 (RNS2)
- Display: QVGA Robe touch screen with battery backup, gravitation sensor for auto screen positioning, operation memory service log with RTC, stand-alone operation with 3 editable programs (each up to 100 steps), built-in analyser for easy fault finding
- Protocols: USITT DMX-512, RDM, ArtNet, MA Net, MA Net2, sACN
- Wireless CRMX™ technology from Lumen Radio - on request
- Epass™: Ethernet pass through switch which sustains Ethernet integrity, when the fixture has no power, to automatically maintain network connectivity
- DMX Protocol modes: 4
- Control channels: 49, 42, 50, 43
- Pan/Tilt resolution: 16 bit
- CMY & CTO: 8 bit
- + - Green correction: 8 bit
- Colour wheel positioning: 8 or 16 bit
- Framing shutters module movement & rotation: 8 bit
- Rotating gobo wheel positioning: 8 bit
- Gobo indexing & rotation: 8 or 16 bit
- Static gobo wheel positioning: 8 bit

- Animation wheel: 8 bit
- Animation wheel rotation: 8 bit
- Iris: 8 or 16 bit
- Frost: 8 bit
- Zoom: 8 or 16 bit
- Focus: 8 or 16 bit
- Dimmer: 8 or 16 bit (internal 18 bit)

## **Movement**

- Pan movement: 540°
- Tilt movement: 265°
- Movement control: Standard and Speed
- EMS™: Electronic Motion Stabilizer system for Pan & Tilt reducing beam deviation caused by truss movement or vibration (Patent pending)
- Automatic Pan/Tilt position correction

## **Rotating gobos**

- 7x rotating glass gobos
- Outside diameter: 26.8 mm
- Image diameter: 23.5 mm
- Thickness: 1.1 mm
- Max. thickness: 3.5 mm
- High temperature borofloat or better glass
- Slot & lock system for easy replacement of gobos

## **Static gobos**

- 9x static glass gobos
- Outside diameter: 26.8 mm
- Image diameter: 23.5 mm
- Thickness: 1.1 mm
- Max. thickness: 3.5 mm
- High temperature borofloat or better glass

## **Effect wheel**

- Single animation wheel
- Material: Aluminium
- Can be used alone or in combination with rotating gobos
- Rotating in both directions, variable speed

## Framing shutters system

- Shutters: 4 Blades, each with separate movement and rotation control
- Movement: Smooth with variable speed, ultrafast blade movements for creating mid-air effects
- Rotation: +/- 60° of the complete framing system

## Camera

- Type: SNZ-6320
- Resolution: 1920 x 1080, 16:9 Full HD (1080p) resolution support
- Zoom:
  - 32x optical zoom
  - 16x digital zoom
- Streaming: H.264, MPEG dual codec, Multiple streaming
- Vision: Day & Night (ICR), WDR (120dB)
- Minimum illumination: 0.3 Lux

## Thermal specification

- Maximum ambient temperature: 45°C (113°F)
- Maximum surface temperature: 80°C (176°F)
- Minimum operating temperature: -5°C (23°F)

## Electrical specification and connections

- Power supply: Electronic auto-ranging
- Input voltage range: 100-240 V, 50/60 Hz
- Power consumption:
  - Standard mode max. 870 W at 230 V / 50 Hz
  - High-power mode max. 950 W at 230 V / 50 Hz
- Power in connector: Neutrik powerCON TRUE1
- DMX and RDM data in/out: Locking 3-pin & 5-pin XLR
- Ethernet port in: RJ45
- Ethernet port out: RJ45 - camera video output
- Ethernet port in/out: RJ45 (instead of 3-pin XLR) for Embedded Epass™ switch 10/100 Mbps - on request

## Approvals

- CE Compliant
- cETLus Compliant

## Mechanical specification

- Height: 733 mm (28.9") - head in vertical position
- Width: 443 mm (17.4")
- Depth: 264 mm (10.4") - head in vertical position
- Weight: 29.4 kg (64.8 lbs)
- Ingress protection rating: IP20

## Rigging

- Mounting positions: Horizontally or vertically
- Universal operating position
- Mounting points: 5 pairs of 1/4-turn locking points
- 2x Omega adaptors with 1/4-turn quick locks
- Safety cable attachment point
- Pan and Tilt transport locks

## Included items

- User Manual
- Omega Adaptor CL-regular 2 pcs
- Power cord including powerCON TRUE1 In connector
- RoboSpot Camera

## Optional accessories

- Frost 0.5° (exchange) assembled: 10980583
- Frost 10° (exchange) assembled: 10980497
- Frost 20° (exchange) assembled: 10980574
- Frost 30° (exchange) assembled: 10980584
- Hot-Spot lens in gobo holder: 10980483
- Gel frame adaptor: 10980463
- Gel frame: 10980464
- Doughty Trigger Clamp: 17030386
- Omega Adaptor Tall CL-regular 2 pcs in box: 10980501
- Safety wire 35 kg: 99011963
- Single Top Loader Case: 10120254
- Dual Top Loader Case: 10120255
- Foam Shell: 20020357
- Top hat: 10980568

## Legal

- ESPRITE™ is a Trademark of Robe lighting s. r. o.
- ESPRITE™ FS is patented by Robe lighting s. r. o. and protected by one or more pending or issued patents



## Gobos&Colours

### Rotating Gobo Wheel



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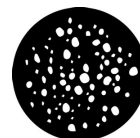
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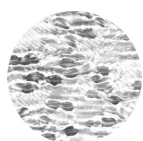
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### Static Gobo Wheel



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### Colour Wheel 1



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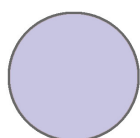
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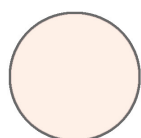
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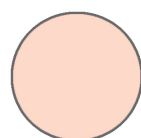
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