

FORTE® Fresnel

Forte means Excellence, Speciality, Strength. Our FORTE® Fresnel wash lives up to its name! With revolutionary TRANSFERABLE ENGINE technology giving you the ability to maintain light quality, combined with a fixture packed full of specialist innovation, you have the ultimate high-output wash luminaire ready to lead you into the future.

**Light source**

TE™ 1.000W XP White LED TRANSFERABLE ENGINE

**Light output**

up to 40.500 lm, 41.000 lx @5m, Cpulse™ special flicker free management for HD and UHD cameras, ready for 8K and 16K

**Zoom range**

6° - 61°

**Effects**

Internal barndoor system with +/- 90° rotation, Cpulse™ - Flicker Free Management, L3™ dimming system for ultra-smooth fade to black



Never be short of output again as the FORTE® Fresnel, with its classically soft beam, delivers powerful, intense washes of light without losing theatrical subtlety or control, providing the most velvety-smooth washes possible, fit to grace any stage.

Delivering powerful, intense washes of light without losing theatrical subtlety or control, the FORTE® Fresnel with its classically soft beam, provides the most velvety-smooth washes possible, fit to grace any stage.

Harnessing the immense strength of the engine through its 200mm front lens, the FORTE® Fresnel, with its wide-ranging 10:1 ratio 6°- 61-degree zoom, offers a viable alternative to traditional 2.5 KW and 4 KW HMI Fresnels, within its class-leading sub 40 Kg frame.

Ensuring high output big statement washes, the TE™ 1.000W XP (Xtra Performance) White 6.700 K LED Transferable Engine generates a blistering 90.200 lumens. With the FORTE® Fresnel outputting 40.500 lumens (integrating sphere) from the front of the fixture, you have unsurpassed power and exceptional beam quality.

Our revolutionary self-referencing, data-capturing engines, easily changed within five minutes, are all designed, developed and manufactured within our factory (Robe patented technology). The L70/B50 ratings of 50.000 hours and 4-Year, 20.000-hour warranty assure longevity.

Maintaining Robe's reputation for exceptional colour mixing, the CMY system provides beautifully smooth colour transitions from the subtlest pastels to the brashiest saturates. Combined with two colour wheels, CRI 80 and 90 filters, and a variable CTO from 3.000 - 6.700 K, you have total FORTE® Fresnel colour finesse.

The FORTE® Fresnel has unsurpassed levels of beam control, including medium and light frosts; RotaScrim™ graduated filter with position control, +/- 180° rotation and edge colour correction; and the rapid 4Door™ internal barndoor system for accurate individual leaf control and +/- 90° module rotation to ensure maximum flexibility.

FORTE® Fresnel comfortably operates within any noise-sensitive environment, as it features specialised noise-dampening engineering and an array of fan control options. AirLOC™ (Less Optical Cleaning) technology greatly reduces the level of airborne particles drawn over the optical elements, improving light quality and time between routine maintenance.

For film and television work, our Cpulse™ flicker-free software is ideally suited for the latest camera systems, removing any on-screen flicker. The dedicated plus and minus green control channel simplifies picture control.

For theatrical suitability, our advanced L3™ Low Light Linearity dimming, for ultra-smooth fade to black, in combination with lamp size-specific Tungsten Emulation, provide seamless integration with traditional lighting rigs.

EMS™ (Electronic Motion Stabiliser) technology for instant stop and hysteresis elimination removes unwanted fixture tremble usually associated with larger fixtures.

FORTE® Fresnel has a comprehensive protocol suite; USITT DMX 512, RDM, ArtNet, MA Net, MA Net 2, and sACN; REAP™ (Robe Ethernet Access Portal) for direct™ communication over Ethernet networks; Epass for maintained network connectivity; CRMX Wireless DMX control is available on request. These allow easy integration into any control network.

FORTE® Fresnel - Intensity, Subtlety, Controlled

Technical Specification

Source

- Light source type: TE™ 1.000W XP White LED Engine (Patented):
 - XP - Xtra Performance Engine for maximum light output and optimal colour characteristics
 - LED Engine output: 90.200 lm
 - Fixture total lumen output:
 - 40.500 lm (integrating sphere)
 - 33.033 lm (goniophotometer)
 - Colour temperature output: 6.700 K
 - CRI: 70, remotely selectable filters for CRI 80 and CRI 90
 - Illuminance: 41.000 lx @ 5 m
- Light source type: TE™ 1.000W HCF White LED Engine (Patented):
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 - XP - Xtra Performance Engine for maximum light output and optimal colour characteristics
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 - 40.500 lm (integrating sphere)
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- Light source type: TE™ 1.000W HCF White LED Engine (Patented):

Optical system

- Robe's proprietary optical design
- High-efficiency 13-lens zoom optical system, ratio: 10:1
- Zoom range: 6° - 61°
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- Zoom range: 6° - 61°

Dynamic Effects and Features

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

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, NFC app controller
- Protocols: USITT DMX-512, RDM, ArtNet, MA Net, MA Net2, sACN
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Movement

- Pan movement: 540°
- Tilt movement: 270°
- Movement control: Standard and Speed
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- Tilt movement: 270°
- Movement control: Standard and Speed

Internal barndoors

- Patented 4Door™ internal barndoors module:
 - Barndoors with individual control of the four leaves
 - Rotation: +/- 90° of the entire module
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 - Barndoors with individual control of the four leaves
 - Rotation: +/- 90° of the entire module

Internal Scrim

- Patented RotaScrim™ internal Scrim module:
 - Graduated filter position control
 - Rotation: +/- 180° of the entire module
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 - Graduated filter position control
 - Rotation: +/- 180° of the entire module

Thermal specification

- Maximum ambient temperature: 45°C (113°F)
- Maximum surface temperature: 100°C (212°F)
- Minimum operating temperature: -5°C (23°F)
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- Maximum surface temperature: 100°C (212°F)
- Minimum operating temperature: -5°C (23°F)

Noise Levels

- Sound pressure level:
 - 21 dB(A) at 1 m (Super quiet mode)
 - 33 dB(A) at 1 m (quiet mode)
 - 44 dB(A) at 1 m (auto mode)
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 - 21 dB(A) at 1 m (Super quiet mode)
 - 33 dB(A) at 1 m (quiet mode)
 - 44 dB(A) at 1 m (auto mode)
- Sound power level:

Electrical specification and connections

- Power supply: Electronic auto-ranging
- Input voltage range: 100-240 V, 50/60 Hz
- Power consumption: max. 1250 W
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- Power consumption: max. 1250 W

Approvals

- CE Compliant
- cETLus Compliant
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Mechanical specification

- Height: 843 mm (33.2") - head in vertical position
- Width: 483.5 mm (19")
- Depth: 335 mm (13.1") - head in vertical position
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- Width: 483.5 mm (19")
- Depth: 335 mm (13.1") - head in vertical position

Rigging

- Mounting positions: 0°, 32°, 90°
- Universal operating position
- Mounting points: 5 pairs of 1/4-turn locking points
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- Universal operating position
- Mounting points: 5 pairs of 1/4-turn locking points

Included items

- User Manual
- Omega Adaptor CL-regular 2 pcs: 10980033
- Power cord including powerCON TRUE1 In connector
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- Power cord including powerCON TRUE1 In connector

Optional accessories

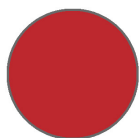
- Gel frame: 10980561
- Module of PC lens: 10980611
- Doughty Trigger Clamp: 17030386
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- Module of PC lens: 10980611
- Doughty Trigger Clamp: 17030386

Legal

- FORTE[®] Fresnel is Registered Trademark of Robe lighting s. r. o.
- FORTE[®] Fresnel is patented by Robe lighting s. r. o. and is protected by one or more pending or issued patents
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Gobos&Colours

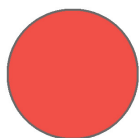
Colour Wheel 1



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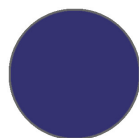
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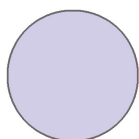
Colour Wheel 2



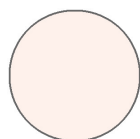
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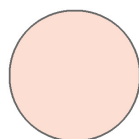
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