

FORTE™

Forte means Excellence, Speciality, Strength. Our FORTE™ certainly lives up to its name! Producing a blistering 50.000 lumens of high quality performance light, combined with the ability to maintain light quality from the revolutionary TRANSFERABLE ENGINE, and packed full of specialist innovation, you have the fixture ready to lead you into the future.

Harnessing the strength of the self-referencing, data capturing TE™ 1.000W White LED engine, FORTE™ has wide ranging 5-55 degree zoom capability to fulfil all your spot, wash and beam applications, contained within its class-leading sub 40 kg frame. Usual output loss at the narrow zoom setting is taken care of via our ingenious Robe Patent pending narrow zoom output boost, improving performance by over 15 %, giving you a dramatically increased output, perfect for sabre like beams. Robe's new, cutting-edge, CMY colour mixing system provides beautifully smooth colour transitions.

Combined with two colour wheels, CRI 80 and 90 filters, and a variable CTO from 3.000 - 6.700 K gives FORTE™ total colour finesse. The comprehensive, dynamic effects package includes; two fully indexable, rotatable gobo wheels each with 6 gobos using the fast change Robe slot and lock system; two stackable 6-facet prisms, one linear, one round; animation wheel and an ultra-fast motorized iris. The two rapid insert interchangeable frosts, a soft 1° and a medium 5° for silky smooth washes cover the entire zoom range of 5-55 degrees with no restricted range cut off. FORTE™ gives you total control via our ultra-precise patented framing shutter system, with separate blade control and the entire assembly capable of +- 60° rotation; Cpulse™ PWM control and direct Plus/Minus Green control for broadcast precision; EMS™ (Electronic Motion Stabiliser) technology, for instant stop and hysteresis elimination, making FORTE™ the ideal fixture for RoboSpot™; L3™ (Low Light Linearity) dimming producing imperceptible fades to black. FORTE™ possesses a comprehensive protocol suite; USITT DMX 512, RDM, ArtNet, MA Net, MA Net 2, and sACN. REAP™ (Robe Ethernet Access Portal) is included for direct communication over Ethernet networks. DMX Wireless control is available on request. All this allows seamless integration into all control networks. Excellence, Speciality, Strength. This is our FORTE™!



Light source

TE™ 1.000W White LED TRANSFERABLE ENGINE



Light output

40.000 lm, fixture total lumen output, Cpulse™ special flicker free management for HD and UHD cameras, ready for 8K and 16K

**Zoom range**

5° - 55°

**Effects**

2 rotating gobo wheels, 2 color wheels, animation wheel, frost, iris, 6-facet circular and linear prisms, framing shutters

Technical Specification

SOURCE

- Light source type: TE™ 1.000W White LED Engine
- LED life expectancy: min. 50.000 hours
- CRI: 70/80/90, remotely selectable
- Colour temperature: 6.700K
- Typical lumen maintenance: L70/B50 @ 50.000 hours
- Light source warranty: 4 years or 20.000 hours

OPTICAL SYSTEM

1. Robe's proprietary optical design
 2. High-efficiency zoom optical system, ratio 11:1
 3. Zoom range: 5° - 55°
 4. Output lens diameter: 180 mm
 5. High efficient component optics
 6. Fixture total lumen output:
 - 50.000 lm (in integrated sphere)
 - 40.000 lm (on the wall)
- Illuminance: 105.000 lx @ 5 m, 1.050 lx @ 50 m

DYNAMIC EFFECTS

- Cyan: 0 - 100%
- Magenta: 0 - 100%
- Yellow: 0 - 100%
- Variable CTO: 3.000K - 6.700K
- Colour Wheel 1: 5 fixed dichroic colours+ white
- Colour Wheel 2: 5 replaceable + white
- Framing shutters : Patented framing shutters module with 4 individually positionable blades plus rotation of the complete frame system +-60°
- Rotating gobo wheel 1: 6 rotating, indexable and replaceable breakup and aerial gobos + open, patented slot & lock system
- Rotating gobo wheel 2: 6 rotating, indexable and replaceable breakup and aerial gobos + open, patented slot & lock system
- Animation wheel: Aluminium animation wheel, used alone or in combination with gobos, rotating in both directions at variable speed
- Prism 1: Independent 6 facet linear prism rotating in both directions at variable speed
- Prism 2: Independent 6 facet circular prism rotating in both directions at variable speed
- Frost: Light 1° for instant softening of the projected gobo and framing shutters and medium 5° for even wash, both frosts replaceable via magnetic holder
- Hot-Spot: From flat field to 6:1 hot-spot (optional)
- Iris: Motorized, stepless, pulse effects up to 3 Hz
- Motorized zoom and focus
- Electronic strobe effect with variable speed up to 20 Hz, pre-programmed random strobe & pulse effects
- High resolution electronic dimming: 0 - 100%
- L3™ - (Low Light Linearity) Imperceptible 18 bit dimming for ultra smooth fade to black

- Extremely quiet operation suitable for all types of production in Theatre and TV
- 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, Webnet
- REAP™ - Robe Ethernet Access Portal
- Wireless CRMX™ technology from Lumen Radio: On request
- 3 editable programs, each up to 100 steps
- DMX Protocol modes: 1
- Control channels: 54
- Pan/Tilt resolution: 16 bit
- CMY & CTO: 8 bit
- Colour wheel positioning: 16 bit
- Framing shutters module movement & rotation: 8 bit
- Rotating gobo wheel positioning: 8 bit
- Gobo indexing & rotation: 16 bit
- Animation wheel: 8 bit
- Animation wheel rotation: 8 bit
- Iris: 16 bit
- Frost: 8 bit
- Zoom: 16 bit
- Focus: 16 bit
- Dimmer: 16 bit (internal 18 bit)

MOVEMENT

- Pan movement: 540°
- Tilt movement: 270°
- Movement control: Standard and Speed
- Controllable speed of Pan/Tilt movement
- 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

- 12x rotating glass gobos on 2 wheels
- Outside diameter: 30.8 mm
- Image diameter: 25.0 mm
- Thickness: 1.1 mm
- Max. thickness: 3.5 mm
- High temperature borofloat or better glass
- Slot & lock system for easy replacement of gobos

EFFECT WHEEL

- Single animation wheel

- Material: Aluminium
- Diameter: 112 mm
- Can be used alone or in combination with rotating gobos
- Rotating in both directions at variable speed

FRAMING SHUTTERS SYSTEM

- Shutters: 4 Blades, each with separate movement and $\pm 25^\circ$ rotation control
- Movement: Smooth with variable speed, ultrafast blade movements for creating mid-air effects
- Rotation: $\pm 60^\circ$ of the complete framing system

THERMAL SPECIFICATION

- Maximum ambient temperature: 45 °C (113 °F)
- Maximum surface temperature: 100 °C (212 °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: max. 1200 W
- Power in connector: Neutrik powerCON TRUE1
- DMX and RDM data in/out: Locking 3-pin & 5-pin XLR
- Ethernet port in: RJ45

APPROVALS

- CE Compliant
- cETLus Compliant

MECHANICAL SPECIFICATION

- Height: 843 mm (33.2") - head in vertical position
- Width: 483.5 mm (19")
- Depth: 288.5 mm (11.6") - head in vertical position
- Weight: 39.5 kg (87.1 lbs)

RIGGING

- Mounting positions: 0°, 32°, 90°
- 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

OPTIONAL ACCESSORIES

- Frost 10° (exchange) assembled: 10980556
- Hot-Spot lens in gobo holder: 10980557
- Doughty Trigger Clamp: 17030386
- Safety wire 50 kg: 99011957
- Single Top Loader Case: 10120267-01
- Dual Top Loader Case: 10120268
- Foam Shell: 20020395-01

LEGAL

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

gobos & colours

ROTATING GOBO WHEEL A



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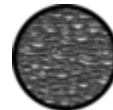
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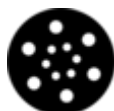
ROTATING GOBO WHEEL B



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COLOUR WHEEL A



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COLOUR WHEEL B



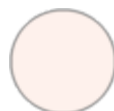
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