

iFORTE® LTX FS

Are you looking for the ultimate long-throw, high output, all-environment LED WashBeam with an integral camera for RoboSpot™ use capable of true, stadium-level reach and outperforming all others? You have only one choice – The Robe iFORTE® LTX FS!

**Light source**

iSE-TE™ 1.000W White XP LED
TRANSFERABLE ENGINE

**Light output**

up to 55.000 lm, 355.000 lx @ 5m, Cpulse™
special flicker free management for HD and
UHD cameras, ready for 8K and 16K

**Zoom range**

3.5° - 52° (standard optical range), 2° - 52°
(using optical zoom + iris), 0.7° - 2° (long-
throw mode)

**Effects**

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



Redefining the boundaries of output, optical excellence, and performance while retaining all the subtleties of theatrical precision, the iSERIES IP65-rated Robe iFORTE® LTX FS is truly the next-generation unrivalled WashBeam luminaire with an integral camera for live concert touring, indoors or out!

The iFORTE® LTX FS FollowSpot is equipped with a full HD digital camera mounted on the head, with parCoat™ lens protection to ensure a clear picture in inclement weather. The IP65-rated camera features 32x optical and 32x digital zooms and is suitable for light levels down to 0.05 lux.

The iFORTE® LTX FS is available with patented, IP65 rated iSE TE™ 1.000 W White LED TRANSFERABLE ENGINES. Choose the XP (Xtra Performance) engine delivering a 6.700 K colour temperature with an impressive illuminance of 355.000 lx at 5 m and a CRI of 70 for maximum brightness.

Fitted as standard in new models, the XRLE™ (XR Light Enhancer) beam reducer significantly boosts output to an incredible 410.000 lx at 5 m in Long Throw mode. Developed for LTL and LTM, this patented technology amplifies intensity without reducing LED lifespan or harming the engine, building on Robe's advanced XR7™ Long Throw technology. XRLE™ can also be retrofitted as required.

For applications demanding the highest colour accuracy, the HCF (High Colour Fidelity) engine delivers a 6.000 K colour temperature with 231.000 lx at 5 m and an exceptional CRI of 96, guaranteeing superior colour rendition.

Data capturing TRANSFERABLE ENGINE technology offers all the advantages of field exchange, cost-effective replacement, and the ability to keep up with LED development to ensure exceptionally long fixture life. With typical lumen maintenance of L70/B50 50.000 hours, the 4-year 20.000-hour warranty gives peace of mind, whatever the weather.

In line with its outstanding performance, the iFORTE® LTX FS creates an imposing visual statement with its domineering, solid beam from the 245mm front lens.

With innovative optics to attain absolute WashBeam functionality, the FORTE® LTX WB can operate in various ways. The standard Optical Range Mode permits the widest 3.5° - 52° coverage. Using the iris, you can narrow the beam for 2°-52° coverage. The Long-Throw Mode, using xR7™ technology, provides an ultra-tight 0.7 - 2° beam to deliver crisp, incisive beams without any intensity loss usually found when engaging an iris over long distances.

Colour generation is via a CMY colour mixing system. With two colour wheels and a variable CTO of 3.000 - 6.700K, you have all the tools to cover everything from the densest saturates to the most refined pastel shades. ChromaTint™ patented green content control technology allows fast adjustment, especially useful for broadcast users.

The PLANO4™ four individual plane blade system, with 120° module rotation, delivers precise, endlessly repeatable framing without shape restriction.

The iFORTE® LTX FS is not all about power. It's packed full of features and effects, including; One rotating, indexable gobo wheel with 5 replaceable gobos; Two aluminium animation wheels with variable speed and directional control; Two independently controlled stackable prisms-one 6-facet circular and one 6-facet linear; Two MagFrost™ interchangeable 1° and 5° frosts; 2° Beam Reducer for long-throw follow spot operation.

In addition, the luminaire has our advanced L3™ 18-bit dimming system, Cpulse™ flicker-free management for the latest camera systems and Epass™ for automatically maintained network connectivity. EMS™ (Electronic Motion Stabiliser) technology for instant stop and hysteresis elimination makes the iFORTE® LTX FS the perfect RoboSpot partner.

At the heart of the protection is RAINS™ (Robe Automatic Ingress Protection System). This highly advanced patented technology not only prevents ingress. It actively manages the fixture's internal microclimate removing internal moisture build-up caused by constant heating and cooling to provide maximum protection for electronics. With simple maintenance procedures, Robe has revolutionised how outdoor fixtures are managed and protected.

Streamlined preparation saves time. The luminaire runs an ingenious Self Pressure Test to check internal pressure. Requiring no special tools and taking under 3 minutes, the test provides an error message where gaskets and covers were not replaced correctly or locking screws incorrectly tightened, ensuring maximum protection.

To maintain consistently high lumen output, even with the rigours of outdoor performance, water, dirt, dust, haze, and smoke are repelled from the front lens with our unique parCoat™ hydrophobic, oleophobic-resistant coating. Furthermore, it allows easy removal of deposits without scratching or damage.

For operation in extreme cold, the iFORTE® LTX FS contains our innovative POLAR+™ technology. This special standby mode maintains the fixtures sensors and communication channels remain active while greatly reducing power consumption. When activated, POLAR+™ will automatically maintain an internal temperature level, allowing instant operability down to minus 50 degrees centigrade!

Ideally suited for remote outdoor installations, REAP™, the Robe Ethernet Access Portal communication software, viewed as a web browser, shows real-time fixture monitoring of all parameters, including complete RAINS™ status information such as pressure and internal saturation levels.

Giving greater flexibility are both In and Out Epass™ signal maintaining ethernet ports, allowing the fixture to simultaneously receive and send ethernet communication separate to the camera. The camera signal being sent via a separate dedicated port.

By including NFC (Near-Field Communication) technology, you can access setup, diagnostic and performance features, even without power, directly from your mobile device using the Robe Com app.

The standard iFORTE® LTX WB may be easily upgraded to the FS version as they contain camFIT™, meaning they are pre-wired and pre-balanced, ready for adding the dedicated IP65-rated RoboSpot™ camera if required.

iFORTE® LTX FS adds up to a comprehensive single package of versatile high output LED WashBeam and long-throw Follow spot specifically designed for indoor and outdoor use.

iFORTE® LTX FS - Robe reliability in all weathers

Technical Specification

Source

Light source type: iSE-TE™ 1000W 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:
 - 55.000 lm (integrating sphere)
 - 43.800 lm (goniophotometer)
- Colour temperature output: 6.700 K
- CRI: 70, remotely selectable filters for CRI 80 and CRI 90
- Illuminance: 355.000 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: 15:1

Zoom range:

- 3.5° - 52° (standard optical zoom)
- 2° - 52° (using optical zoom + iris)
- 0.7° - 2° (long-throw mode - using iris)

Output lens diameter: 245 mm

Dynamic Effects and Features

Cyan: 0 - 100%

Magenta: 0 - 100%

Yellow: 0 - 100%

Variable CTO: 3.000K - 6.700K

ChromaTint™ - Patented plus / minus green correction function

Colour Wheel 1: 5 fixed dichroic colours+ white

Colour Wheel 2: 5 fixed dichroic colours + white

Framing shutters: Patented Plano4™ framing shutters module with 4 individually positionable blades plus rotation of the complete frame system + - 60°

Rotating gobo wheel 1: 5 rotating, indexable and replaceable breakup and aerial gobos + open, patented slot & lock system

Animation wheel: 2 Aluminium animation wheels, 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

Frosts: MagFrost™ - magnetic paddle fast change system providing exchangeable frosts containing as standard a very light 1° for instant softening of the projected gobo or framing shutters, and 5° for even wash, both specifically selected for theatre and TV use

Iris: Motorized, stepless, pulse effects up to 3 Hz

XR7™ eXtreme Reach Follow Spot technology enables you to achieve unprecedented light levels, even the narrowest beam angle of 0.7 degrees

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

POLAR+™ for power saving and instant operation in extremely cold weather conditions

CamFit™ Prewired for later camera installation

AERIS™ (Airborne Emission Removal In-head System) keeps surfaces pristine and extends service intervals, significantly lowering ownership costs.

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

REAP™ - Robe Ethernet Access Portal

Wireless CRMX™ technology from Lumen Radio

Epass™: Ethernet pass through switch which sustains Ethernet integrity, when the fixture has no power, to automatically maintain network connectivity

RAINS™ (Robe Automatic Ingress Neutralization System) manages humidity, temperature and pressure control using an active monitoring system to automatically remove any moisture detected within the fixture and provides constant monitoring to ensure peak performance

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 (Patented)

Automatic Pan & Tilt position correction

MAPS™ - Motionless absolute positioning system for Pan and Tilt (Patented)

Rotating gobos

5x rotating glass gobos
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
Patented slot & lock system for easy replacement of gobos

Effect wheel

Dual 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 +- 25° rotation control
Movement: Smooth with variable speed, ultra-fast for creating mid-air effects
Rotation: +- 60° of the complete framing system

Camera

Type: XNZ-L6320A
Resolution: 1920 x 1080, 16:9 Full HD (1080p) resolution support
Zoom:

- 32x optical zoom
- 32x digital zoom

Vision: Day & Night (ICR), WDR (120dB), Defog
Streaming: H.265, H.264, MJPEG Codec, Multiple streaming
Minimum illumination: 0.05 Lux
parCoat™ (particle resistant coating) unique hydrophobic and oleophobic coating helps prevent water, dirt, dust, haze and smoke from adhering to the output lens

Thermal specification

Maximum ambient temperature: 50°C (122°F)
Maximum surface temperature: 100°C (212°F)
Minimum operating temperature: -50°C (-58°F)
Total heat dissipation: max. 3200 BTU/h (calculated)

Electrical specification and connections

Power supply: Electronic auto-ranging
Input voltage range: 100-240 V, 50/60 Hz
Power consumption: max. 1250 W
Power connector in: IP65 Neutrik powerCON TRUE1
DMX and RDM data in/out: IP65 Locking 3-pin & 5-pin XLR connectors
Ethernet port out: RJ45 - camera video output
Ethernet port in/out: IP65 RJ45, for Embedded Epass™ switch 10/100 Mbps
USB connector (series C) for lightmaster purposes

Approvals

CE Compliant
cETLus Compliant

Environmental Information

GWP (Global Warming Potential) total in modules A1-A3 (according LCA): 858 Kg CO₂e
EPD registration number: EPD-IES-0017188:002

Mechanical specification

Height: 904 mm (35.6") - head in vertical position
Width: 480 mm (18.89")
Depth: 335 mm (13.1") - head in vertical position
Weight: 49 kg (108.0 lbs)
Ingress protection rating: IP65

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 & Tilt transport locks

Included items

User Manual

Omega Adaptor CL-regular 2 pcs: 10980033

Power cord including powerCON TRUE1 In connector:

- US: 13052277-01
- EU: 13052276-01

2° Beam reductor for long-throw follow spot operation

RoboSpot Camera

Balancing Weight Cover for CamFit: 10981009

Optional accessories

iFORTE LTX WB iSE-TE™ 1.000W XP White LED Engine: 14080091

iFORTE LTX WB iSE-TE™ 1.000W HCF White LED Engine: 14080101

Frost 0.5° (exchange) assembled: 10980581

Frost 1° (exchange) assembled: 10980564

Frost 3.5° (exchange) assembled: 10981037

Frost 5° (exchange) assembled: 10980565

Frost 10° (exchange) assembled: 10980556

Frost 20° (exchange) assembled: 10980577

Frost 30° (exchange) assembled: 10980582

UpLift™ Removable Handles (2 pcs): 10981220

Omega Adaptor T CL - 2pcs: 10980184

Doughty Trigger Clamp: 17030386

Safety wire 50 kg: 99011957

Single Top Loader Case: 10120326

Dual Top Loader Case: 10120327

Foam Shell: 20020475

Legal

iFORTE® is Registered Trademark of Robe lighting s. r. o.

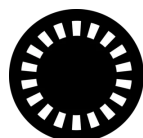
iFORTE® LTX FS is patented by Robe lighting s. r. o. and is protected by one or more pending or issued patents

Gobos&Colours

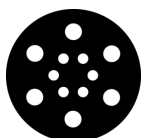
Rotating Gobo Wheel



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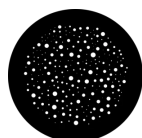
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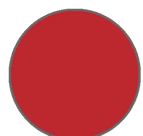


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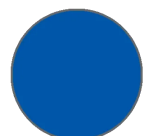


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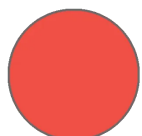
Colour Wheel 1



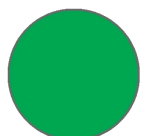
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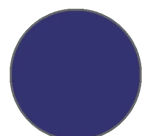
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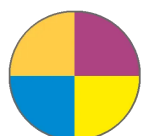


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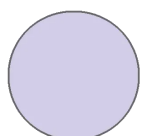
Colour Wheel 2



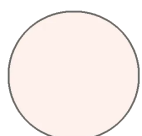
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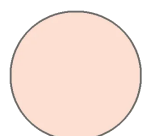
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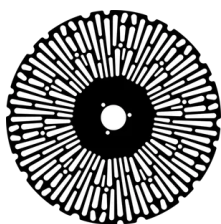


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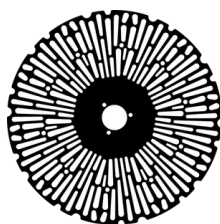


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Animation Wheels



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