

# iT12 PC™

For all-environment smooth area wash lighting, the iT12 PC™ has all the tools, features, controls, and light qualities to deliver outstanding static soft-wash performance, whatever the elements can throw at it.

**Light source**

iSE-MSL-TE™ 500W LED Engine (Patented)

**Light output**

13.500 lm (integrating sphere), 10.700 lm (goniophotometer)

**Zoom range**

6° - 60°

**Effects**

CMY/RGB or RGBAL , Two frosts, motorised focus and zoom, Pre-programmed random strobe & pulse effects



Joining the Robe iSERIES, the IP65-protected iT12 PC™ will manage any inclement weather. Our revolutionary, self-managing, low-maintenance ingress protection RAINS™ technology ensures peace of mind for theatres, television, and concerts, indoors or out.

Powered by the 500W iSE-MSL-TE™ LED engine, iT12 PC™ offers over 13.500 lumens (integrating sphere) fixture output, while maintaining the T-series' famous colour finesse, rendition and absolute consistency.

TRANSFERABLE ENGINE technology enables field engine replacement and keeps up with the latest LED advancements, supporting an exceptionally long fixture life. Users can choose RGB, CMY, or individual colour emitter control. With CCT adjustable from 2.700K-8.000K; factory-calibrated whites; virtual CRI from 80 to 95+ and DataSwatch™ onboard colour library including 237 preset colours and tones, you have a full set of colour control options.

For all-encompassing wash work, the iT12 PC™ features a 10:1 ratio motorized 6°-60° zoom. Designed for high output even outdoors, our patented parCoat™ lens coatings prevent debris buildup, and repels water and oil, protecting optics to maintain output levels.

To provide beam shaping, an optional drop-in, motorised internal barndoor module features four individually controlled doors with +/- 90° module rotation. MagFrost™ quick change 5° medium and 10° wide frosts come fitted as standard. A scrim with graduated filter positional control and +/- 180° rotation gives additional beam control to remove unsightly hot spots.

Our patented BARS™ (Brake Attribute Retention System) locks the motorised zoom firmly in place for consistent, accurate reproduction of lighting cues even when the fixture is power cycled.

For extreme cold, the patented POLAR+™ power-saving standby mode maintains internal temperature, ensuring operability down to -50°C. Real-time monitoring via REAP™ software and NFC setup access enable streamlined management, while the fixture's tool-free Self Pressure Test alerts users of improper fixture sealing.

### **iT12 PC™ - Robe reliability in all weathers**

# Technical Specification

## Source

- Light source type: iSE-MSL-TE™ 500W LED Engine (Patented)
- LED life expectancy: min. 40.000 hours
- Colour rendition: CRI: 95, CRI R9: 96, TM30-18 Rf: 92, TM30-18 Rg: 106, TLCI: 91
- Typical lumen maintenance: L70/B50 @ 40.000 hours
- Light source warranty: 4 years or 20.000 hours

## Optical system

- Robe's proprietary optical design
- High-efficiency zoom optical system, ratio 10:1
- Zoom range: 6° - 60°
- Fixture total lumen output:
  - 13.500 lm (integrating sphere)
  - 10.700 lm (goniophotometer)
- Illuminance: 22.000 lx @ 5 m
- parCoat™ (particle resistant coating) unique hydrophobic and oleophobic coating helps prevent water, dirt, dust, haze and smoke from adhering to the output lens

## Main features

- Factory calibrated whites and colours via the new RCC™ (Robe Colour Calibration) system, automatic or on-call
- self-re-calibration of the LED engine without the use of any external tool (Patent pending)
- Colour mixing: CMY/RGB or RGBAL
- White light: Variable CCT 2.700K - 8.000K
- DataSwatch™ filters: pre-programmed 237 colours and tones including most used whites 2.700K, 3.200K, 4.200K, 5.600K
- Tungsten lamp effect: 750W, 1.000W, 1.200W, 2.000W, 2.500W lamp emulation for whites from 2.700K to 4.200K (red shift and thermal delay)
- + - Green correction function
- Adjustable CRI: from 80 to 95+
- MagFrost™ - magnetic paddle fast change system providing exchangeable frost containing as standard a medium 5° and wide 10° for even wash
- 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
- Dimmer profile selection: Linear, Square law
- Cpulse™ special flicker-free management for HD and UHD cameras, ready for 8K and 16K
- Extremely quiet operation suitable for all types of production in Theatre and TV
- 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.
- BARS™ - Brake Attribute Retention System (Patented) applied for Focus and Zoom stepper motors
- POLAR+™ for power saving and instant operation in extremely cold weather conditions

## 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 2 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: 8
- Control channels: 24, 28, 35, 39, 32, 36, 43, 47
- Variable CCT: 8 bit
- + - Green correction: 8 bit
- Colour mixing: 8 or 16 bit (internal 18 bit)
- Frost: 8 bit
- Zoom: 8 or 16 bit
- Dimmer: 8 or 16 bit (internal 18 bit)

## Thermal specification

- Maximum ambient temperature: 50 °C (122°F)
- Maximum surface temperature: 90 °C (176 °F)
- Minimum operating temperature: -50 °C (-58 °F)
- Total heat dissipation: max. 1125 BTU/h (calculated)

## Electrical specification and connections

- Power supply: Electronic auto-ranging
- Input voltage range: 100-240 V, 50/60 Hz
- Power consumption: Max. 600 W
- Power connector in/out: IP 65 Neutrik powerCON TRUE1 in/out
- DMX and RDM data in/out: IP65 Locking 5-pin XLR connectors
- Ethernet port in/out: IP65 RJ45 for Embedded Epass™ switch 10/100 Mbps

## Approvals

- CE Compliant
- cETLus Compliant

## Mechanical specification

- Height: 534 mm (21.02") with yoke
- Width: 385 mm (15.51")
- Depth: 653 mm (26.18")
- Weight:
  - 23.8 kg (52.4 lbs)
  - 25.3 kg (55.77 lbs) with optional framing shutters module
- Ingress protection rating: IP65

## Rigging

- Mounting horizontally or vertically via mounting yoke
- Mounting points: M12 bolt
- Safety cable attachment point

## Included items

- User Manual
- Gel frame adaptor
- Power cord including powerCON TRUE1 In connector:
  - US:13052277-01
  - EU:13052276-01

## Optional accessories

- iT12 iSE-MSL-TE™ 500W LED Engine: 14080098
- Doughty Trigger Clamp
- Safety wire 36 kg: 99011963
- Floor stand: 10981014
- Frost 0.5° (exchange) assembled: 10980583
- Frost 3.5° (exchange) assembled: 10980668
- Frost 10° (exchange) assembled: 10980497
- Frost 20° (exchange) assembled: 10980574
- Frost 30° (exchange) assembled: 10980584
- iT12 Profile lens module: 10981030
- iT12 Fresnel lens module: 10981029
- Drop-in gobo and animation wheel module: 10980968
- Drop-in framing and iris module: 10980969
- Drop-in module open gate: 10981008
- Single Top Loader Case: 10120323
- Single Top Loader Trolley case: 10120324
- Dual Top Loader Case: 10120325
- Foam Shell: 20020468

## Legal

- iT12 PC™ is a Trademark of Robe lighting s. r. o.
- iT12 PC™ is patented by Robe lighting s. r. o. and is protected by one or more pending or issued patents