



UBerLED™ 50

UltraBright LED Technology

KEY FEATURES

- 20,000 hour Lamp Guarantee
- 2-year Warranty
- Accepts all Fiberoptics
- 90-240VAC Operation
- Ultra Compact Design
- White and Color Options
- Stable DC Output
- Standard DIN Rail Mounts
- Easy Change LED Lamp



1.7 Times the Output of 150W Tungsten Halogen

Ultra Bright LED technology (UBerLED™) from Illumination Technologies eliminates costly and time consuming relamping - for years. The UBerLED™ family of lightsources provide more photons than their Tungsten Halogen counterparts (especially in the blue end of the spectrum) and last more than 50 times longer (even so, our LED lamps are easily replaceable in the field). The UBerLED™ 50 translates to higher output, better color rendition, and lower cost of ownership.

Like all of our standard LED lightsources, the UBerLED™ 50 offers exceptional reliability and works with all industry standard fiberoptic assemblies (contact factory for full line of receptacle inserts). And the exclusive IT heatpipe thermal management system is so efficient and reliable, the unit comes with a full 2-year warranty.

There are a variety of spectral options including white, blue, green, red and UV. The unit offers several optical coupling options to match active fiber diameter and NA, as well as a host of interface options including Ethernet and USB. Custom, OEM and private labeled versions are also available - contact factory for information.

APPLICATIONS

- LCD Inspection
- CMOS Sensor Calibration
- Large Web (Multiple Source)
- Food Inspection
- Pharmaceutical Production
- Biomedical Diagnostics
- Biotechnology Research
- Fluorescence
- Digital Microscopy

Detail Drawing

PART NUMBER **UB50-WWW-II-000-RR**

WWW (Wavelength)

- 390 UV, 390nm
- 460 Blue, 460nm
- 525 Green, 525nm
- 625 Red, 625nm
- W57 White, 5700K
- W65 White, 6500K

II (Interface)

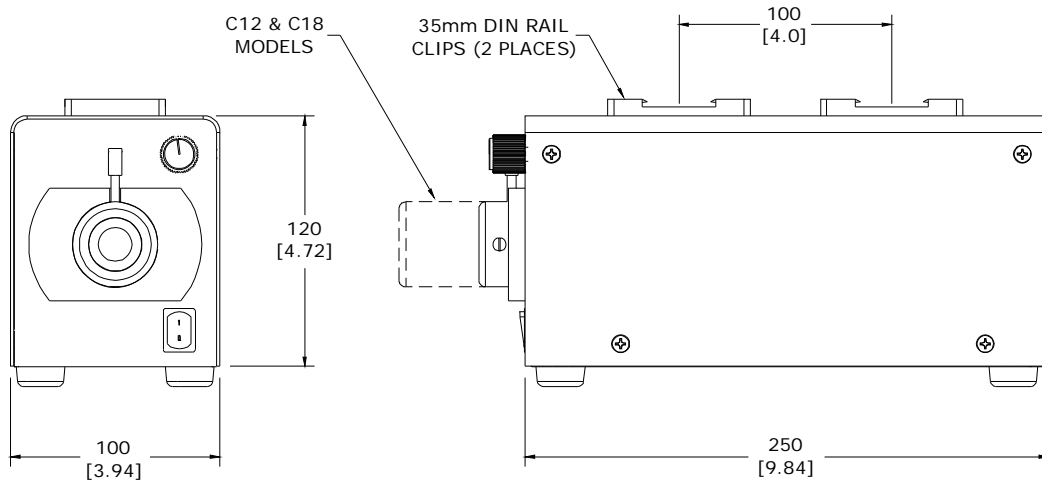
- RS RS232 & FP Pot
- ET Ethernet & FP pot
- US USB & FP Pot
- IO 8-bit I/O & FP Pot
- Blank Front Panel Pot Only

000 (Optics)

- C12 12mm, NA=0.25
- C18 18mm, NA=0.30
- L07 7mm, NA=0.40
- L14 14mm, NA=0.40

RR (Receptacle)

- VO 15mm (0.59")
- FO 18.3mm, (0.72")
- Blank 16mm (0.63")



Technical Specifications

Physical

Height: 135 (5.3")
 Width: 100 (3.9")
 Length: 265 (10.4")
 (C12/C18): 310 (12.2")
 Weight: 2.3kg (5 lbs)
 (C12/C18): 2.7kg (6 lbs)

Electrical

Mains: 90-240VAC 50/60Hz
 Input Power: 120 VA

Output Stability

Short-term: 0.1% (Radiometric)
 Lifetime: < 1% (Radiometric)
 (RS, ET, US, IO models)

Output Linearity

Linearity: 0.15% (Radiometric)
 Precision: 0.25% (Radiometric)
 (RS, ET, US, IO models)

Regulation

DC, Current: 94% Efficient

Lamp

20,000 Hour LED Lamp
 Field Replaceable

Environmental

Temperature: 0 to 40C
 Relative Humidity: 0 to 95%

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