



Innovative Photonic Solutions

CF-1000

C-Lector™

Color Filterwheel Fiberoptic Lightsource

KEY FEATURES

- Fiberoptic Lightsource
- 8-position Filterwheel
- Linear DC Regulation
- *Light-Lock™* Light Feedback
- RS-232/485 Interface
- Operator Lock-Out
- Internal Self Diagnostics
- Lamp Status Indicator
- *Soft-Start* Circuitry
- UL/CSA Listed, CE Certified

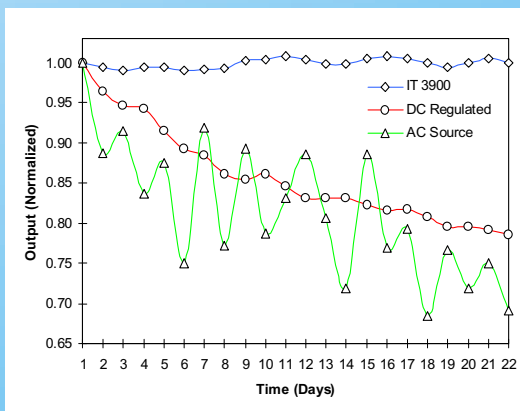


APPLICATIONS

- Machine Vision
- Scientific Imaging
- Neutral Density Apps
- Multimode Lighting
- Color Applications
- Digital Microscopy
- CMOS Sensor Calibration
- Biotechnology

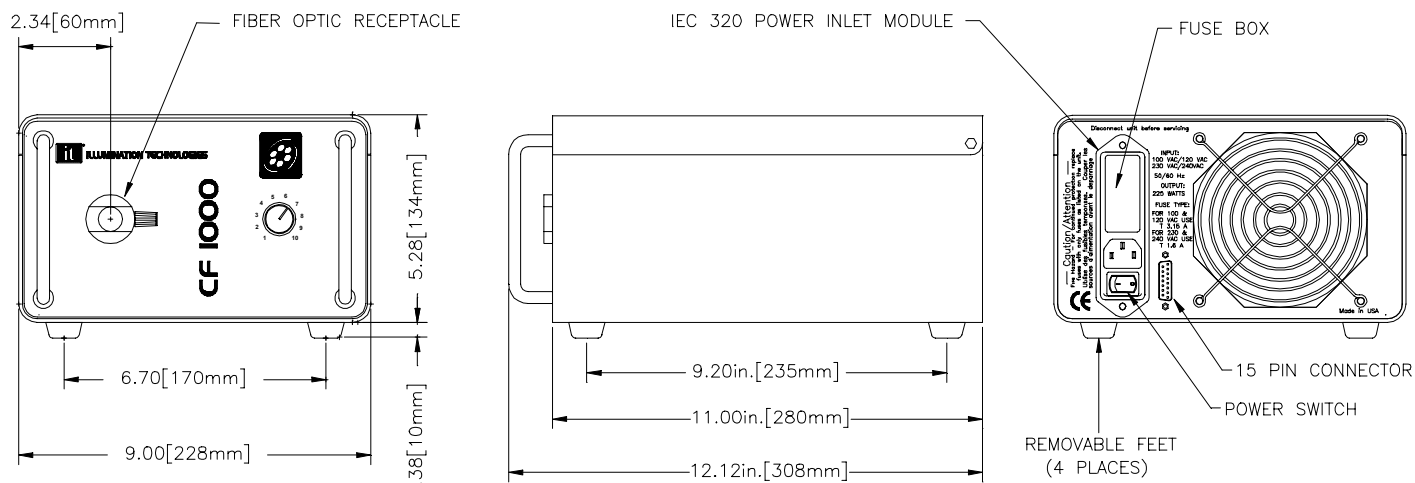
Spectral Stability & Selection

A member of the *Smart Lite™* family, the **CF-1000** combines an automated, computer-controlled filter wheel with the robust performance of linear DC Regulation and the proprietary *Light-Lock™* light feedback system. This combination provides the most stable light intensity for any portion of the spectrum the user selects. The high output 150 watt tungsten halogen lamp, combined with any of our high efficiency interference filters, provides high output intensities at maximum stability. Low maintenance design and internal self-diagnostics keeps downtime to a minimum. The RS-232/485 serial communications interface provides fully automated control and real-time diagnostics. Unit accepts all our standard accessories including color filters, lamp options, and the entire line of standard and custom fiberoptic light delivery components.



Light-Lock™ Stability

Detail Drawing



DXF file Available

Technical Specifications

Physical

Height: 5.68" (145mm)
 Width: 9.00" (230mm)
 Length: 12.13" (310mm)
 Weight: 15.0lbs (6.8kg)

Output Stability

Regulation: 0.1% (Photometric)
 Noise: 0.1% (Photometric)
 Long-term: 1.0% (Photometric)

Control

Manual: Front Panel Pot
 Analog: 0-5 VDC (Linear)
 Serial: RS-232 or RS-485
 SS Relay: Analog & Serial
 Filter Wheel: RS-232/485

Electrical

Input: 100/120/220/240 (selectable)
 50/60Hz
 Input Power: 100/120V 290W
 220/240V 360W
 Inrush Current: 100/120V 3.6A
 220/240V 2.6A
 Overvoltage: Category II

Regulation Scheme

Short-term: Linear DC Regulator
 Long-term: Optical Light Feedback

Diagnostics

Lamp Out: Analog & Serial
 Over Temp: Analog & Serial

Environmental

Temperature: 0 to 40C
 Relative Humidity: 0 to 95%
 Altitude Rating: 2000m (max)
 Pollution Rating: Pollution Degree 2

Lamp

Visible: EKE (Ushio)
 High Color: EKE-HC (Ushio)
 Extended Range: EKE-ER (IT)
 NIR: EKE-IR (IT)

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