



Innovative Photonic Solutions

3900

Smart-Lite™

DC Regulated Fiberoptic Lightsource

KEY FEATURES

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



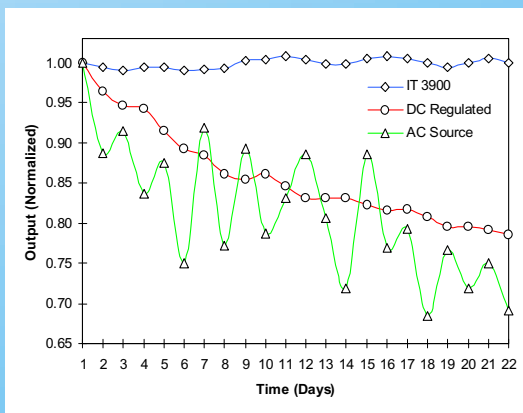
APPLICATIONS

- Machine Vision
- Scientific Imaging
- Low Cost Vision Sensors
- Line Scanning Systems
- Colorimetry
- Digital Microscopy
- CMOS Sensor Calibration
- Biotechnology

Supreme Stability

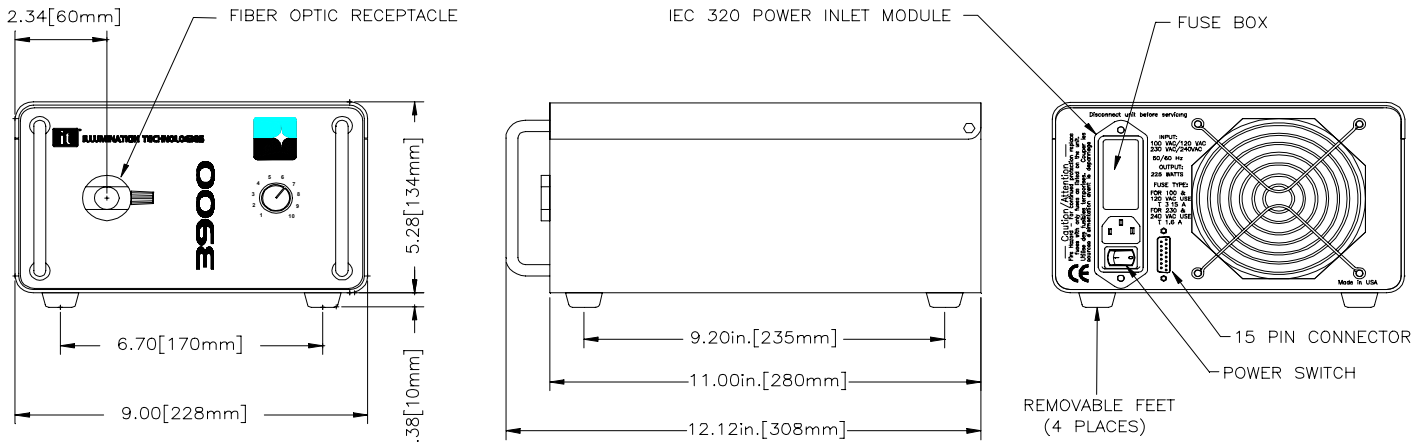
The **3900 Smart Lite™** combines robust, linear DC Regulation with the proprietary *Light-Lock™* light feedback system to provide the most stable light intensity and spectral output in the industry - over the entire life of the 150 watt tungsten halogen lamp. An absolute must for ensuring robust and reliable performance from machine vision sensors to calibrations systems. 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. The *Smart-Lite™* family of light-sources 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

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)

Proudly Distributed By:



Innovative Photonic Solutions

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