



Innovative Photonic Solutions

3900-ROLS

Remote Olympus Light System

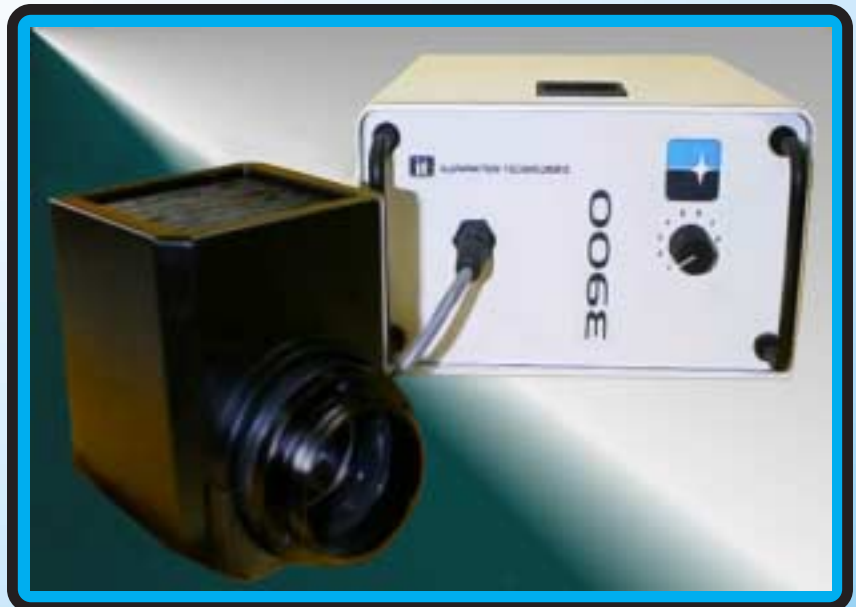
Lightsources

KEY FEATURES

- Stable Microscope Source
- Linear DC Regulation
- *Light-Lock™* Light Feedback
- RS-232/485 Interface
- Operator Lock-Out
- Internal Self Diagnostics
- Lamp Status Indicator
- *Soft-Start* Lamp Saver
- Retrofit Olympus U-LH100L-3
- Replaces the TH-3 Supply

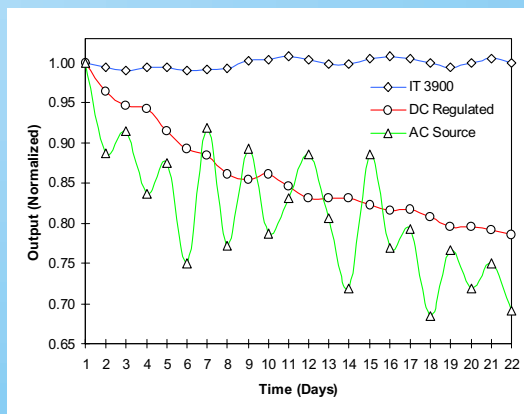
APPLICATIONS

- CCD Camera Microscopy
- Brightfield Illumination
- Darkfield Illumination
- Fluorescence Microscopy
- Semiconductor Inspection
- Biotechnology Applications



Stability & Computer Control

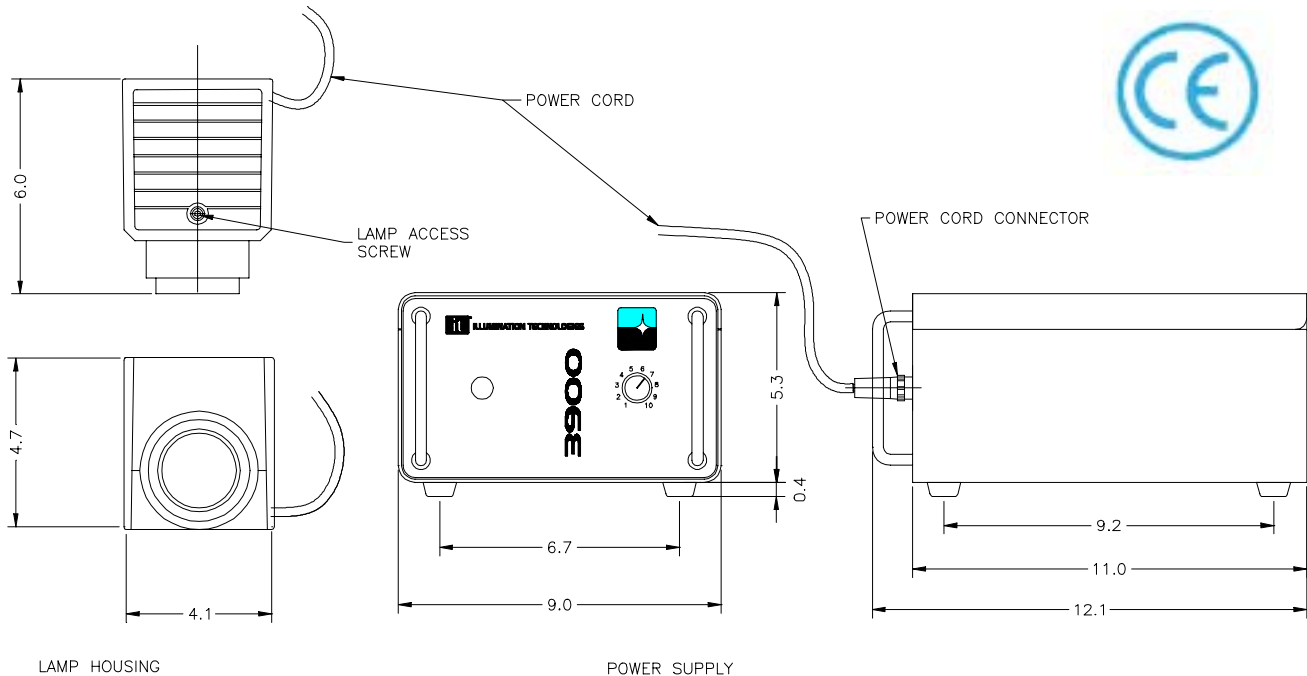
The **3900-ROLS** easily and effortlessly replaces the standard internal Olympus lightsource system used for brightfield and darkfield illumination. Upgrade your microscope performance using the industry standard 3900 platform with its proven DC Regulation and proprietary *Light-Lock™* light feedback system. Critical for all microscope systems with digital cameras, this powerful lightsource technology provides the most stable light intensity and spectral output in the industry - over the entire life



Light-Lock™ Stability

of the 150 watt tungsten halogen lamp. An absolute must for ensuring repeatable and reliable performance for all critical microscopy applications. Low maintenance design and internal self-diagnostics keeps downtime to a minimum and allows for full automation of front-end lighting. The RS-232/485 serial communications interface provides fully automated control and real-time diagnostics.

Enclosure Detail Drawing



DXF file Available

Technical Specifications

Physical

Power Supply

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

Lamp Housing

Height: 4.70" (119 mm)
 Width: 4.10" (104 mm)
 Length: 6.00" (152.4 mm)
 Weight: 2.0lbs (0.91 kg)
 Cable Length: 4.0 feet (1.2 meters)

Regulation Scheme

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

Output Stability

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

Electrical

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

Control

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

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

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