



Innovative Photonic Solutions

3900-DD



Dirty Dog

“...just plain tuff!”

KEY FEATURES

- Economical Lightsource
- Factory Floor Protection
- Contamination Resistant
 - Dirt & Dust
 - Debris
 - Particulates
- Rugged Industrial Enclosure
- Ultra Stable Light Output



APPLICATIONS

- Automotive Factories
- Machining or Fabrication
- Glass Container Production
- Web, Sheet & Rolling Mills
 - Steel, Aluminum, Metals
 - Plastics & Glass
 - Textiles & Wood
- Industrial Assembly Plants
- Wood Processing Facilities

Ultra Stability

DC Regulation combined with the proprietary *Light-Lock™* light feedback system provide the most stable light intensity and spectral output in the industry - over the entire life of the 150W Tungsten Halogen lamp. An absolute must for ensuring robust and reliable performance from industrial machine vision sensors and systems.

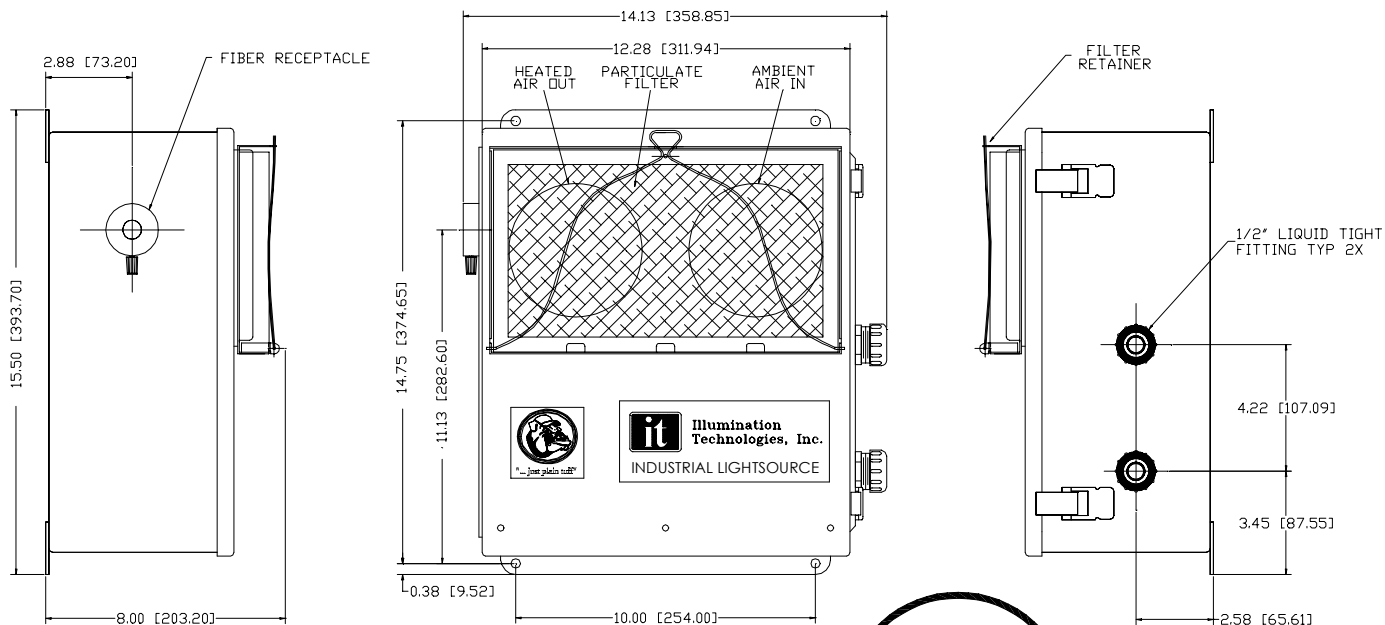
Easy to Operate

Just plug it in and go! No compressed air to hook up and filter. No coolant lines to run; no chillers to break down. Specialty engineered 2-stage filter removes air-borne particulate found in many industrial facilities that can spell premature failure for most optically based inspection equipment.

Easy to Maintain

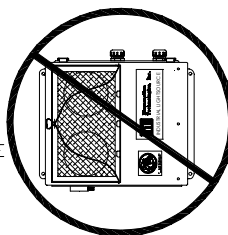
Long-life disposable filters are easy to change, and internal self-diagnostics circuitry keeps the host alerted of any potential problems via the RS-232/485 serial communications interface. As with all the *Smart-Lite™* family of lightsources, the 3900-DD accepts all standard accessories, color filters, lamp options, and our entire line of standard and customized fiberoptic light delivery components.

Enclosure Detail Drawing



DXF file Available

WARNING!
DO NOT OPERATE
WITH FIBER RECEPTACLE
POINTING DOWN!



Technical Specifications

Physical

Height: 7.88" (200mm)
Width: 14.13" (360mm)
Length: 15.50" (395mm)
Weight: 35.0lbs (15.9kg)

Output Stability

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

Control

Manual: Internal 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

Accessories

Standard Lamp: EKE (Ushio)
High Color: EKE-HC (Ushio)
Extended Range: EKE-ER (IT)
NIR Lamp: EKE-IR (IT)
Disposable Filter: 1010-212

Proudly Distributed By:



Illumination Technologies, Inc.

5 Adler Drive 1 East Syracuse 1 New York 13057 USA
TEL: 315-463-4673 1 FAX: 315-463-1401 1 Toll Free (North America): 800-738-4297
Web: <http://www.illuminationtech.com> 1 E-mail: info@illuminationtech.com