

PL900 ILLUMINATOR

A PRODUCT OF DOLAN-JENNER INDUSTRIES

Operation Manual



SETUP

Voltage Selection:

Read and review the instructions on the label covering the power entry module and the instructions in this section prior to connecting power to the illuminator.

Notice: The user must set the illuminator to the correct voltage **prior** to connecting the illuminator to the AC power mains. Connecting the illuminator to the AC power mains without setting the voltage selector switch to the correct value may result in damage to the illuminator and may void the warranty.

The PL900 illuminator can operate at either 115 VAC 50/60 Hz or 230 VAC 50/60 Hz. **All PL900 illuminators are shipped with the voltage set for 230 VAC.** To operate the PL900 at 115 VAC the user must move the voltage selector switch to the 115 setting **prior** to connecting power to the illuminator.

FIBER OPTIC CONNECTION

Notice: Do not operate the illuminator without the fiber optic connected to the illuminator.

Loosen the fiber optic nosepiece thumbscrew.

Insert the fiber optic into the illuminator nosepiece.

Tighten the thumbscrew by hand to make a secure connection to the fiber optic. *Use of pliers or other tools is not recommended.*

Two nosepiece styles are available with the PL900 series of fiber optic illuminators. A-type with a 0.985 in. (25mm) ID, or B-type with a 0.590 in. (15mm) ID smaller than the 0.985 in. ID.

A-type nosepieces require the use of adapters to mate fiber optic light guides smaller than the 0.985 in. ID. Adapters fit into the nosepiece and reduce the ID to accept the chosen fiber optic. The fiber optic and the adapter are secured with the thumbscrew. The following A-type adapters (SX-5, SX-6 & SX-7) are made with an idler which allows quick disconnect of the fiber optic.

B-Type nosepieces will accept self-supporting goosenecks (EEG2823C, EEG3922C, BG2820C, etc.) and ringlight (A3739B) fiber optics without the need for an adapter. Fiber optics smaller than the 0.590 in. (15mm) ID will require the use of B-type adapters (SX-5B, SX-6B & SX-7B).

OPERATION

Insert the power cord into the power entry module at the rear of the illuminator. Next, insert the power cord into a 3 wire grounded AC power receptacle. *Use only approved power cord supplied with the illuminator.*

Press the ON(1)/OFF(0) rocker switch on the front panel to ON(1). The illuminator will light and is ready for service.

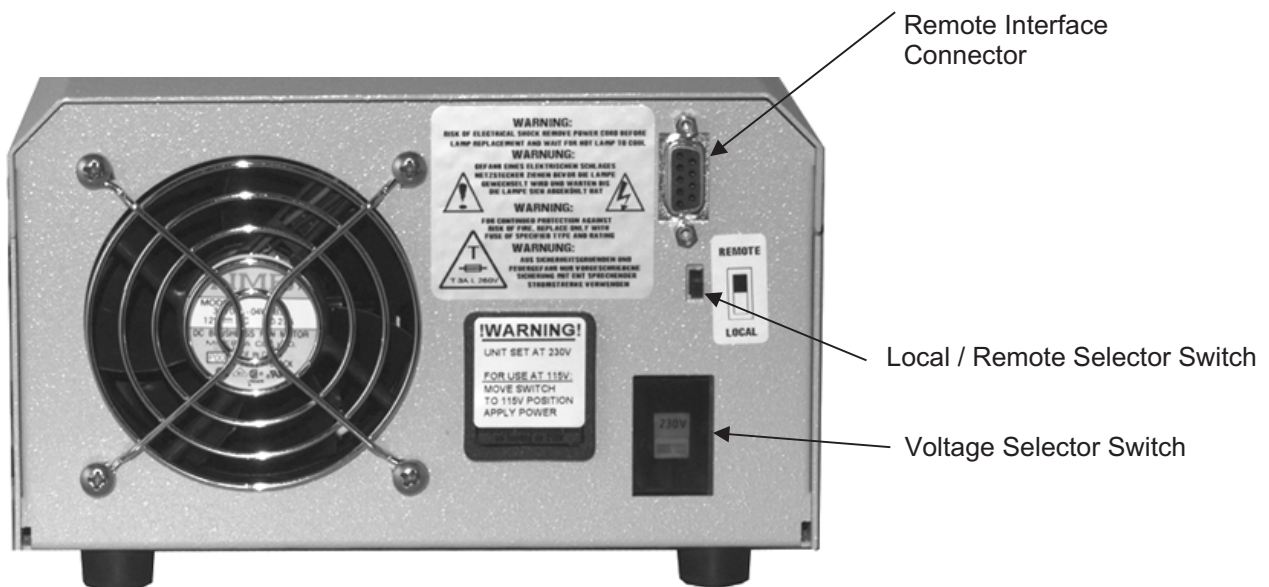
Lamp Intensity Control:

All the PL900 series illuminators are equipped with a front panel manual solid state intensity control and an external interface (9-pin, D style connector) for remote intensity control via a 0-5 VDC signal on the back panel.

Manual:

The illuminator intensity is controlled by the rotary control located on the front panel of the illuminator. The 0 position (when control is turned fully counter-clockwise) corresponds to the lowest illuminator intensity. The 100 position (when control is turned fully clockwise) corresponds to the highest illuminator intensity.

NOTE: Continuous operation of the illuminator at the highest intensity level will yield rated lamp life. Operating the illuminator at reduced intensity can result in significantly extended lamp life.



Remote Interface:

To enable the remote interface, move the LOCAL/REMOTE, located on the rear panel of unit, to the REMOTE position. When the switch is in the REMOTE position the front panel intensity control is not active. See Fig. 1 for the Pin Functions on the 9 Pin D-Sub connector. If the Remote Intensity Control Pin is not connected, the illuminator will run at the maximum intensity setting until the Remote Intensity Control Pin is connected.

TECHNICAL DATA

Lamp	150 W Quartz halogen, 21V (EKE)
Voltages	115 VAC, 50 / 60 Hz or 230 VAC, 50 / 60 Hz
Power Consumption	200 W
Lamp Life	200-10,000 Hours (EKE) depending on intensity used.
Fuse	3.15 Amp, 250V, time delay, 5 x 20 mm
Color Temperature	3250° Kelvin .
Noise Level	Approximately 21 dB (A)
Safety Approvals	UL, CSA, TÜV Service "GS"
Dimensions	4.6 H x 7.25 W x 9.5 D (inch) 11.7 H x 18.4 W x 24.3 D (cm)
Weight	12 lbs. (5.5 kg.)
Max. Housing Temp.	9°C above ambient

Environmental Conditions Use Specifications

Type of Use	Indoor at max. altitude of 2,000 M
Installation Category	II
Temperature Range	5°C to 40°C
Relative Humidity	80% maximum up to 31° C decreasing linearly to 50% relative humidity @ 40° C
Pollution Degree	2

NOTICE: if the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

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Dolan-Jenner Industries, Inc. declares that the Fiber-Lite® PL900 series of fiber optic illuminators complies with the following EU standards :

EN61010-1

EN55011, Class B, Level 1

EN50082-1

IEC 801-2

IEC 801-3

IEC 801-4

(Test reports available for review at the manufacturer.)



Authorized Signature

10/24/00

Date

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