

**STANDARD ILLUMINATORS**



## Fiber-Lite A-241 150 Watt Quartz Halogen DC Stabilized Fiber Optic Illuminator

The A-241 is a high performance illuminator specifically designed for critical machine vision applications in a factory environment. The unit consists of a regulated DC power supply with selectable panel and analog 0-5 VDC intensity control. Computer controlled 8-bit digital I/O remote intensity adjustment is also available. **The small remote lamp module** can be effectively mounted close to conserve on fiber optic length or directly on a robotic arm. The lamp module includes mounting for a near infrared and two additional color filters.

**FEATURES:**

*DC regulated stabilizes light output @ +/- .5%*

*Filter holder for additive or subtractive color filtering*

*Input line voltage regulated: 85-135 VAC (115VAC); 170-270 VAC (230VAC)*

*Remote On/Off and Intensity Control: Remote off leaves lamp filament heated; 0-5 Volt intensity control; optional 8-bit digital input intensity control with chip enable (CE)*

*DC Operation and Lamp Soft Start*

**TECHNICAL INFORMATION:**

System	Consists of A-241L lamp module and A-241P power supply
Input	85-135 VAC, 50/60 Hz., or 170-270 VAC, 50/60 Hz. (See: Order Code)
Controls	Front panel illuminated power on/off switch, panel/remote operation selector switch, 0-100% panel intensity control potentiometer
Remote Intensity Control	8-bit digital input with chip enable or 0-5 V analog input (See: Order Code)
Remote On/Off	BNC connection
Ground	On-line cord and accessory ground at A-241P back panel
System Weight	A-241L=2 lb. 1.1oz. (0.939Kg.) A-241P=7 lb. 6.4 oz. (3.358 Kg.), Total Weight=9 lb. 7.5 oz. (4.296 Kg.)
Line Cord	7 ft., 6 in. (2.29 m) to A-241P
Lamp Module Connection	A-241P to A-241L = 7 ft., 6 in. (2.29 m)
Lamp	150 Watt, 21 V, EKE Quartz Halogen Lamp
Lamp Output	400,000 footcandles @ fiber optic insertion plane @ maximum density
Lamp Color Temperature	3200 Degrees Kelvin @ max. intensity
Lamp Life	200-10,000+ hrs. (lamp voltage vs. life)
Light Output Regulation	Better than +/-0.5%
Lamp Voltage	DC stabilized over range @ +/-0.3% or better
Voltage Ripple	Under 0.01% or better