

Model A241

150 Watt Quartz Halogen DC Stabilized Fiber Optic Illuminator

The A241 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.

A241P

The A241P 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. Each power supply provides energy to one remote lamp head. The small remote lamp module can be effectively mounted close to conserve on fiber optic length or directly near point of use.

A241L

The A241L is a compact DC powered remote lamp module designed to be mated with the A241P DC regulated power supply. The wide spectrum A241L is fan cooled and utilizes the 150 watt EKE halogen lamp. The lamp module also includes mounting for an IR hot mirror and up to 2 additional color filters for precise color or wavelength control.



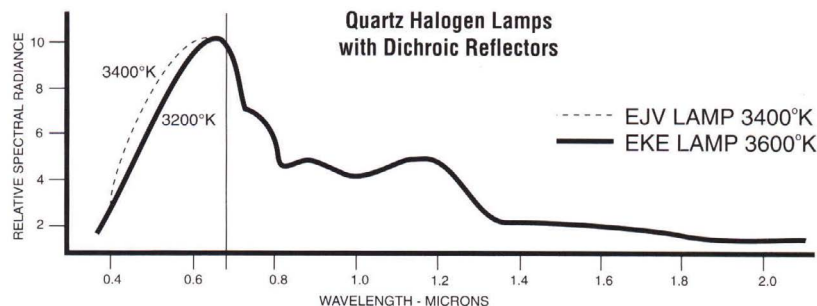
Model A241P Features:

- DC regulated stabilizes light output @ $\pm .5\%$
- Input line voltage regulated: 85-135 VAC (115VAC)
- 90 Inch Lamp Power Cord
- Solid state intensity control (0-100%)
- DC Operation and Lamp
- Soft Start
- 2 Year Warranty



Model A241L Features:

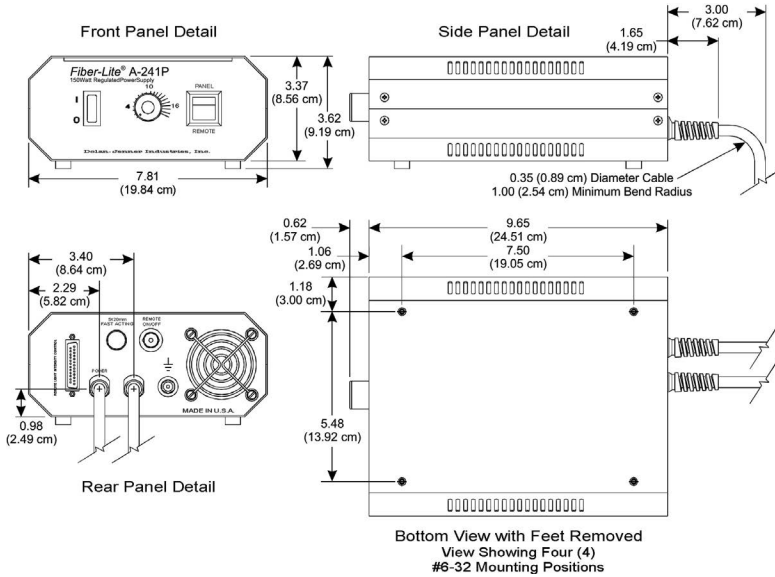
- High intensity 150 watt quartz halogen lamp
- Color filtering capability with built-in filter holder
- Light weight and compact for easy mounting
- A-Type nosepiece accepts all standard Dolan-Jenner fiber-optic light guides and adapters



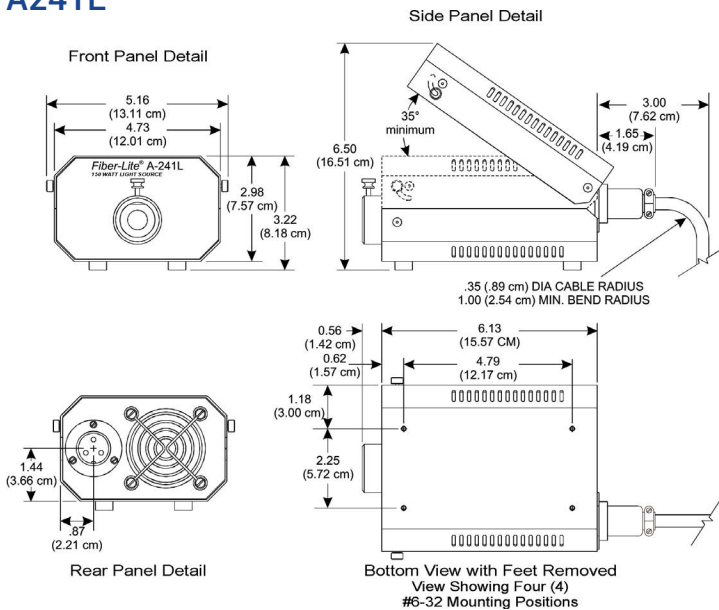
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DIMENSIONS A241P



A241L



GENERAL SPECIFICATIONS

Performance Data	
Lamp	EKE 150 Watt, 21 V, quartz halogen
Lamp Output	1750 Lumens at fiber optic intersection plane
Controls	Front panel illuminated power On/Off switch, panel/remote operation selector switch, 0-100% panel intensity control potentiometer
Electrical Data	
Input	A241P: 100-240 VAC 50/60 Hz Univ. AC A241L: 21 VDC
Fuse	3.15 AMP, 250V, Slo-Blow, 5 x 20
Physical Description	
Dimension	A241P: 7.81" x 9.65" x 3.62" A241L: 6.7" x 5.16" x 3.72"
Weight	A241P: 7.5 lbs. A241L: 2.1 lbs.
Intensity Control	Solid State 0 - 100%
Lighting Properties	
Lamp Life	200 hrs. at full intensity / up to 10,000 hrs. at lower levels
Color Temp.	3250° Kelvin at max. Intensity
Fiber Optic Interface	A241L 25mm (1.0") A-Type, Accepts SX-Adapters
Light Output Regulation	± 0.5% or better
Lamp Voltage	DC Stabilized Over Range @ ±0.3%
Lamp Voltage Ripple	Under 0.01%
Remote Intensity Control	0-5 VDC analog, optional 8-bit digital (See Operating Instructions for Details)
Ground	On line cored and accessory ground at A241P back panel
Replacement Lamp Socket	BUHL QCX-34
Lamp Power Cord	5-Wire, 90" Length
Noise Level	32dB
Operating Temperature	40° C (max)
Warranty	12 Months

REMOTE INTERFACE OPTIONS

Model	A241DJ	A241P	A241L	A241LE
Power Supply	Yes	Yes	No	No
Lamp Module	Yes	No	Yes	Yes
Lamp	EKE, 21V 150W	-	EJV, 21V 150W	EJV, 21V 150W
Filter Holder	3 Slots, 50mm Dia.	-	3 Slots, 50mm Dia.	3 Slots, 50mm Dia.
Accent Fiber Adapters	SX Series	-	SX Series	SX Series