Fully Regulated Fiber Optic Illuminator

SERIES BM – BIOMEDICAL

Stabilization circuits maintain light uniformity to ± 0.5%

Mechanical brightness control enables you to vary brightness without changing the color temperature

Integral infrared filter blocks unwanted heat

Remote control via either 0-10 VDC, RS232, or hand-held remote

Color temperature display

Side insert filter carrier (wide range of color and neutral density filters available)

Stabilization circuits automatically correct for fluctuations in input voltage

Unique Constant Color Temperature Control

Many biomedical and machine vision applications require stable color temperatures. All BM series illuminators contain two separate features that both contribute to highly stable light output. The first innovation uses a patented laser drilled diaphragm that enables the light intensity to be varied without a corresponding change in the color temperature. The second innovation is a stabilized power supply that provides light consistency to better than 0.5 % when operating at full color temperature.
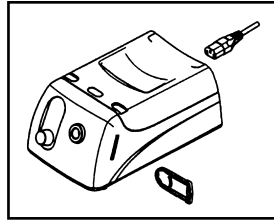
COMMON USES

Fiber Optic Illuminators are often referred to as "Cold Light" Illuminators because they provide high-intensity, focused light without the heat typically associated with high-intensity lamps.
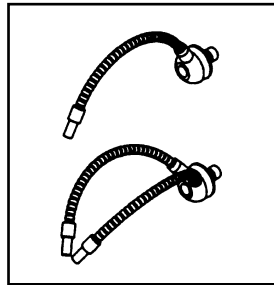
Common Uses:
- Microscopes and Video Microscopes
- Boroscopes
- Industrial Imaging (Machine Vision)
- Custom Process and Inspection Equipment (Wire Bonders, Laser Welding)

TECHNIQUIP

Ideal for video, biomedical and color applications

- Stabilization circuits maintain light uniformity to ±0.5%

- Dual Regulation circuits and constant color features ensure consistent imaging

- High color temperature provides even white light

- Mechanical brightness control maintains color temperature at any brightness

- Side insert filter carrier (wide range of color and neutral density filters available

- Enclosure maintains low temperature

- Over temperature circuit protection

- Low noise and vibration levels

- Handheld remote control

- Integral IR heat filter

Wide range of fiber optics available.

Illuminator Lamp Selection Guide

Part #	EKE	EJA
Color Temperature	3250	3350
Voltage	21 V	21 V
Lamp Life (Hours)	200-2000	40-50
Power Rating (Watts)	150	150
Approx. Shipping Weight	1 oz.	1 oz.

Illuminator Selection Guide

Part #	R150-BM1
Mechanical Brightness Control	Standard
Input Voltage	100-110
Remote Control I/O Connection Point	Standard
RS232	Optional
Bulb Power Stabilization	Standard
AC Input Power Stabilization	Standard
Color Temperature Display	Standard
Electrostatic Discharge Safe	Optional
Power Rating (Watts)	150
Electronic Brightness Control	Standard
Heat Protection Filter	Standard
Soft Start Circuitry	Standard
Filter Holder	Standard – Side insert
Stackable Enclosure	Standard
Overtemperature Protection	Standard
Standard Color	Beige with blue cover
Standard Lamp	EKE
Optional Lamp	EJA
Power Input Module	IEC
Turbo Range	Standard
Output Aperture (Inside Diameter)	14.75 mm (mates with TechniQuip "B" Series Light Guides)
Width	6.6 inches
Height	4.7 inches
Length	10.9 inches
CE	Yes
UL	Conforms to UL 2601
Warranty	1 year
Approximate Shipping Weight	4 lbs.

TECHNIQUIP