

# BL MetaBright™ Back Light

## Model:MB-BL10x12



Backlighting is one of the most popular forms of vision inspection illumination, providing maximum contrast between object and scene and producing a high contrast image with consistent edge definition. *Metaphase Backlights* combine the latest high brightness LEDs with exclusive optical lensing to create high intensity and uniform (+/- 5%), shadow-free illumination.

Connectorized and convenient 24VDC power supply features an onboard and integrated driver. Commonly applied to measuring, defect and hole detection, and determining the orientation of parts. *Metaphase* offers variety of backlights to suit the needs of various applications: area, linear, narrow, and our highly compact thin backlights. Backlights can be configured for wavelength and other specifications.

### BENEFITS:

- Up to 50 SMD LED's per inch array
- Exclusive optical lens provides high uniformity (+/- 5%), shadow-free backlight illumination
- High Density Precision Chip Technology (HDPCT)
- Patent-pending thermal management design draws heat directly from the die ensuring long life
- Metaphase Technologies has the largest selection of Backlights in the vision industry.
- Backlights with in-line and built-in strobe circuit available
- Backlight shapes/sizes include low profile, narrow and large area backlights
- Options include built-in line remote & potentiometer intensity control

### APPLICATIONS:

- Absence/Presence of Objects
- Defect Detection
- Object tracking
- PCB (Printed Circuit Board)
- Web Inspection
- Bottle/Bolt
- Glass Sheet
- Sub-pixel

### RATINGS:



### DOMINANT WAVELENGTH:

Part #	Color	Power Supply
MB-BL10x12-W-24	White 5500K	
MB-BL10x12-R-24	Red 630nm	
MB-BL10x12-B-24	Blue 470nm (Optional 455nm)	
MB-BL10x12-G-24	Green 530nm	24 volt power supply available upon request.
MB-BL10x12-IRN-24	Infrared 850nm	
MB-BL10x12-IRL-24	Infrared 880nm	
MB-BL10x12-UVL-24	UV 395nm	
MB-BL10x12-UVS-24	UV 365nm	
MB-BL10x12-RGB-24	625nm / 530nm / 470nm (3 die packaging technology)	

10 ft. flying leads come standard on all products.  
Light features built-in constant current driver.

#### Vision Light Tech B.V.

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### ELECTRICAL & CONTROLS:

Current Consumption	2.2 ~3A
Light Intensity	+/-5%
Illuminance	60,000 Lux
Operating Temperature	-22°F(-30°C) to 120°F (60°C)
Lifetime Hours	75,000 Hours

### HOUSING:

Dimensions	Length: 15in/381mm Width: 13.18in/334.65mm Height: .81in/20.65mm
Weight	4lb/ 1814.37g
Housing	Aluminum
Finish	Powder Coated- Black

### WIRING DIAGRAM:

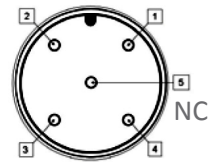
RED	+24VDC
WHITE	+24VDC
GREEN	Ground
BLACK	Ground

24 AWG 2 WIRE CABLE X 1

When not using intensity control, connect 0-10V control line to +24 and intensity control ground to ground

### WIRING DIAGRAM:

PIN #	Function
1	+24VDC
2	Falling E. Trigger
3	Ground
4	Trigger Ground
5	Rising E. Trigger



### ORDERING INFORMATION:

• M B - B L 1 0 x 1 2 - □ - 2 4 - □

**W**- White 6000k

**R**- Red 630nm

**G**- Green 530nm

**B**- Blue 470 nm

**IRN**- Infrared 850nm

**IRL**- Infrared 880nm

**UVL**- (long) 395nm

**UVS**- (short) 365nm

**RGB**- 625nm / 530nm / 470nm

(3 die packaging technology)

\***BLANK**- 10 ft. Flying Leads

**T**- M12 Quick Disconnect

**ILD**- In Line Dimmer

**ILS**- In Line Strobe (customer provide trigger info)

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### DRAWING & DETAILS:

