

MB-LE110

The MetaBright[™] LED Light Engine was designed for direct fiber coupling of up to 8mm fiber bundles and features advanced optical and thermal control technology as well as a built-in 24-volt constant current driver in one small compact package. LED Light Engines are typically used with optical fiber ring lights and backlights.



FEATURES

- Low power, high intensity spotlight source
- Optional mounting bracket available
- LED thermal management for stable performance
- Through-the-camera-lens illumination
- Flicker free performance and instant start up with Metaphase analog driver technology
- Built-in Constant Current Driver with 0-10VDC intensity control, compatible with DDC-3 and ILD-35 Dimmers

	WAVELENGTHS				
Order ID	Description / nanometers				
W	White (6000K), Nominal				
R	Red / 630nm				
G	Green / 530nm				
В	Blue / 470nm				
IR850	Infrared / 850nm				
IR05	Infrared / 1050nm				
IR20	Infrared / 1200nm				
IR30	Infrared / 1300nm				
IR45	Infrared / 1450nm				
IR55	Infrared / 1550nm				
IR65	Infrared / 1650nm				

GENERAL SPECIFICATIONS

Power Source: Cable (Standard): Housing: Ambient Temp: Lifetime Expectancy: 24VDC ±5% 10-foot cable with flying leads Black Anodized Aluminum -20°C to 40°C 75,000 hours (except UV)



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		LE	ED Light Engine				
MODEL	Length Inches (mm)	Lens Diameter Inches (mm)	Weight Ibs (grams)	Cable QTY	Cable Length	Cable Description	Typical Input Current
MB-LE110	2.63 (66.7)	.25 (.64)	0.7 (320)	1	10ft	24 AWG	<.1 amps
				1	1011	4 conductors	

Wiring (4 conductors, flying leads)**					
Wire Color Function					
RED	+24VDC				
WHITE	0-10VDC INTENSITY CONTROL				
BLACK	GROUND (24V RTN)				
GREEN	SIGNAL GROUND				

Wiring (4 conductors, without Intensity Control)				
Wire Color Function				
RED	+24VDC			
WHITE	+24VDC			
BLACK	GROUND (24V RTN)			
GREEN	GROUND (24V RTN)			

M12 (5 position male)**						
Pin #	Function					
1	+24VDC					
2	0-10VDC Intensity Control					
3	GROUND (24V RTN)					
4	SIGNAL GROUND					
5	No Connection					
The M12 connector option is not recommended for lights rated more than 4 amps						

Wiring with ULC-2					
Wire Color	Function				
RED, WHITE (+)					
BLACK, GREEN (-)	LED INPUT				
Terminated within a 2 position U (Phoenix Contact P/N:					

**Note: The 0-10VDC Intensity Control input can accept voltages from 0-24VDC where the light will operate at full intensity in the 10-24VDC range. The light is proportionally dimmer for any Intensity Control voltage less than 10VDC and the light is OFF at approximately 0V or not connected (floating).



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MODEL	-	WAVELENGTH	-	DRIVER* (most common)	-	CABLE LENGTH	-	CONN.** (most common)
MB-LE110	-	ххххх	-	xxxxxx	-	ххх	-	XXXX
MB-LE110		W (White 6000K, Nominal) R (Red 630nm) G (Green 530nm) B (Blue 470nm) IR850 (Infrared 850nm) IR05 (Infrared 1050nm) IR20 (Infrared 100nm) IR30 (Infrared 1200nm) IR45 (Infrared 1450nm) IR55 (Infrared 1550nm) IR65 (Infrared 1650nm)		24Z 24NZ 24-ILD U ¹		5M 10M Length can be customized: ex.7M=7meters Select or leave blank for 3 meters		M12D ^{1 2} Select or leave blank for flying leads

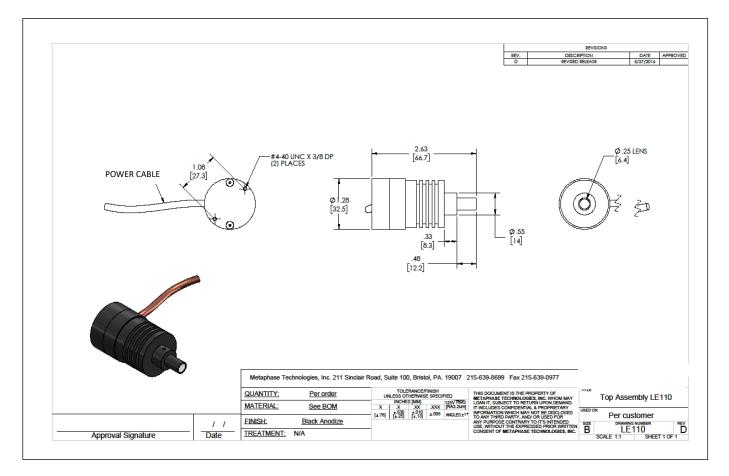
Example 2: MB-LE110-IR30-24-ILD²Default cable length for an M12D connector is 19 inchesContact Metaphase Technologies or your local representative for options such as custom diffusers, lenses,
polarizers, IP-rated enclosures for harsh environments, higher intensity, custom wavelengths, higher
uniformity, etc. Not all options are available for all lights.

PRODUCT DATA SHEET



MB-LE110

Sample Part Number: MB-LE110-W-24Z



PRODUCT DATA SHEET



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Mounting Options:

Please contact your local Metaphase representative to learn more about mounting options for the MB-LE110.





Vision Light Tech B.V.

Protonenlaan 22, 5405 NE UDEN, P.O. Box 345, 5400 AH UDEN, The Netherlands Phone: +31 (0)413 26 00 67, Fax +31 (0)413 26 09 38, E-mail: inquiry@vlt.nl, Website: www.vlt.nl Trade register No. 17150044, VAT No. NL8112.30.946.B01