

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.



FFATURES

- 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					

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Power Source: 24VDC ±5%

Cable (Standard): 10-foot cable with flying leads
Housing: Black Anodized Aluminum

Ambient Temp: -20°C to 40°C

Lifetime Expectancy: 75,000 hours (except UV)



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LED Light Engine							
MODEL	Length Inches (mm)	Lens Diameter Inches (mm)	Weight lbs (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 4 conductors	<.1 amps

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 (+)	LED INPUT					
BLACK, GREEN (-)	LED INPUT					
Terminated within a 2 position ULC-2 output connector (Phoenix Contact P/N: BCP-508-2)						

^{**}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).

MetaBright™ LED Light Engine

PRODUCT DATA SHEET



MB-LE110

PART NUMBER KEY								
MODEL	-	WAVELENGTH	-	DRIVER* (most common)	-	CABLE LENGTH	1	CONN.** (most common)
MB-LE110	-	xxxxx	-	xxxxxxx	-	XXX	1	XXXX
MB-LE110		W (White 6000K, Nominal) R (Red 630nm) G (Green 530nm) B (Blue 470nm) IR850 (Infrared 850nm) IR05 (Infrared 1050nm) IR20 (Infrared 1200nm) IR30 (Infrared 1300nm) IR45 (Infrared 1450nm) IR55 (Infrared 1550nm) IR65 (Infrared 1650nm)		24Z 24NZ 24-ILD U ¹		Length can be customized: ex.7M=7meters Select or leave blank for 3 meters		Select or leave blank for flying leads

Example 1: MB-LE110-W-24Z

Example 2: MB-LE110-IR30-24-ILD

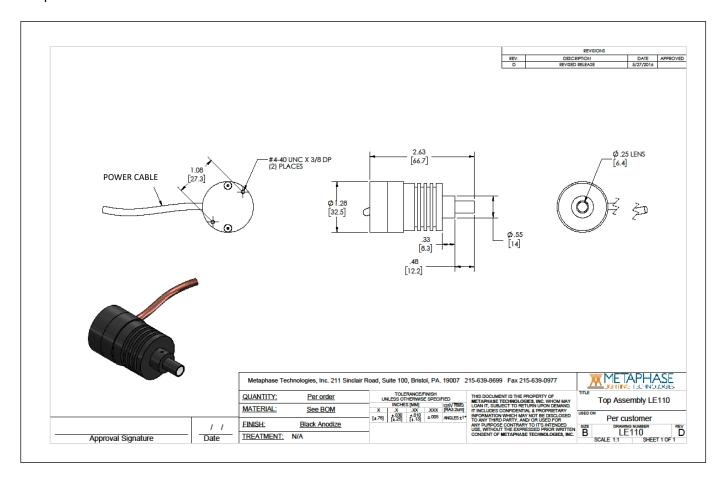
1 Not available in lights exceeding 4A input current
2 Default cable length for an M12D connector is 19 inches

Contact 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.



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





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Mounting Options:

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





COMPLIANCE





CONTACT US

For more information please contact:



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