

## MetaBright™ Linear Pattern Projector Model:MB-LPP





Metaphase Technologies Pattern Projector is designed to give the most accurate measurements in 3D profiling applications. By utilizing LED Patterns, structured light can illuminate a sample from overhead or at a needed angle. The LED Pattern Projector is built to tilt light on a sample surface to ensure that focus is clear throughout application use.

LED Pattern projector illuminates a variety of patterns at different working distances. Paired with a lens and pattern reticle, the LED pattern projector is ideal for structured light applications. The device intensity can be controlled with a  $0 \sim 10V$  intensity control signal. Optional manual dimmer available.

## **BENEFITS:**

- Use with C-Mount, 2/3" format imaging lenses
- Designed for Structured Light Applications
- Project Patterns with <1μm Edge Sharpness
- Built in driver, no special control required, simply provide 24VDC
- 0-10V intensity control signal
- Optional manual dimmer available.
- Versions available: Strobe, DC (Continuous) and versions for use with external controller (ULC-2)
- Patterns include: Crosshair, Stripes, Grid, Edge & Line

## APPLICATIONS:

- Pick and Place
- Micro Defects
- Inspection of Black with low diffusion properties
- High Speed QC
- Small Space Apps

### **RATINGS:**







## DOMINANT WAVELENGTH:

Part #	Color	Power Supply		
MB-LPP-W-24	White 5500K			
MB-LPP-R-24	Red 630nm			
MB-LPP-B-24	Blue 470nm			
MB-LPP-G-24	Green 530nm	24 volt power supply available		
MB-LPP-IRN-24	Infrared 850nm	upon request.		
MB-LPP-IRL-24	Infrared 880nm			
MB-LPP-UVL-24	UV 395nm			
MB-LPP-UVS-24	UV 365nm			
MB-LPP-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. No expensive controller required.



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### **ELECTRICAL & CONTROLS:**

0.2A **Current Consumption** 

+/-5% **Light Intensity** 

Illuminance 350 Lumens

**Operating Temperature** -40°F(-45°) to 100°F (37.8°C)

Lifetime Hours 75,000 Hours

#### WIRING DIAGRAM:

RED +24VDC

**GREEN** Signal Ground

**BLACK** Ground

WHITE 0-10VDC Intensity Control

24 AWG 4 WIRES CABLE X 1

When not using intensity control, connect 0-10V control line to +24 (Max Intensity Control = 25V) and intensity control ground to ground

#### Focal Lens Selection

#### A = Diameter of Area

	60mm	100mm	150mm	200mm	300mm	400mm	500mm
100mm		8	6				
150mm		12	8	6			
200mm	25	16	12	8	6		
300mm		25	16	12	8	6	
400mm		35	25	16	12	8	6
500mm	50	35	25	16	12	8	
600mm		50	35	25	16	12	8
750mm		50	35	25	16	12	12
1000mm			50	35	25	16	16
1500mm			75	50	35	25	25
2000mm				100	50	35	25

Shaded Cells represent the focal length of lens

#### **HOUSING:**

**Dimensions** Length: 4in/ 101.6 mm

Width: 2in / 50.8mm

Weight 0.5lbs / 0.226kg

Housing Aluminum

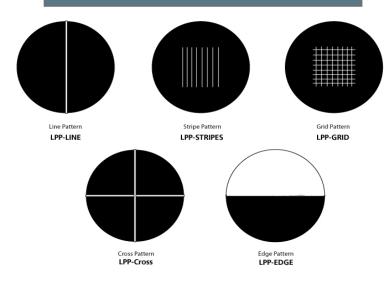
Finish Anodized - Black

## WIRING DIAGRAM:

PIN#	Function
1	+24VDC
2	0-10VDC Intensity Control
3	Ground
4	Signal Ground



#### Standard Patterns



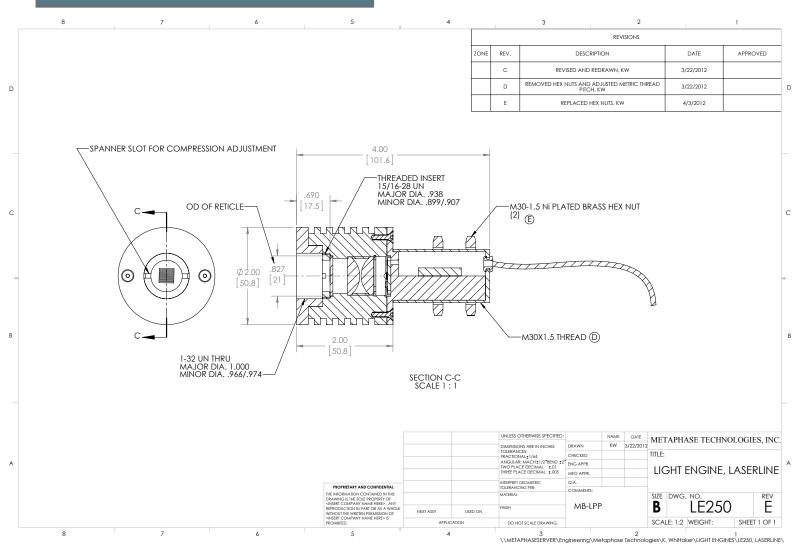




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#### **DRAWING & DETAILS:**



#### **ORDERING INFORMATION:** • M B - L P P - 24 -W-White 6000k \*BLANK-10 ft. Flying Leads R-Red 630nm T-M12 Quick Disconnect G-Green 530nm **ILD**- In Line Dimmer **B**-Blue 470 nm **ILS**- In Line Strobe (customer provide trigger info) IRN-Infrared 850nm IRL - Infrared 880nm **UVL** - UV 395nm **UVS** - UV 365nm RGB-625nm / 530nm / 470nm

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