

# DALL

MetaBright™ Diffused  
Axial Line Light  
Model:MB-DALL306



Metaphase offers the industry's breakthrough performance line lights for imaging, web, and high-speed line scan applications requiring ultra-high intensity and uniformity. Our line lights are built as lean fixtures that can be easily controlled and integrated into visions systems.

Using beam-splitter technology, Metaphase's Diffuse Axial Line Light produces coaxial illumination, reflecting along the line of the camera aperture in line scan applications. The Diffuse Axial Line Light supports an unintrusive lighting scenario that can be configured to illuminate both wide and narrow fields of view, and is ideal for applications involving highly reflective surfaces.

## BENEFITS:

- On-axis illumination
- High intensity: over 1 million lux
- Built-in constant-current driver
- Solid-state performance assures 75,000 lifetime expectancy
- Fan Cooling Option
- Beam Splitter Technology to illuminate in parallel with camera aperture
- Creates diffused and even illumination of specular surfaces

## APPLICATIONS:

- Road Surface Inspection
- Bottle Inspection
- High Speed Scanning
- Glass Inspection
- Electronic Inspection
- Sheet Inspection
- Wafer Inspection
- Metal Inspection
- Semiconductors
- Foils

## RATINGS:



## DOMINANT WAVELENGTH:

Part #	Color	Power Supply
MB-DALL306-W-24	White 5500K	
MB-DALL306-R-24	Red 630nm	
MB-DALL306-B-24	Blue 470nm (Optional 455nm)	
MB-DALL306-G-24	Green 530nm	24 volt power supply available upon request.
MB-DALL306-IRN-24	Infrared 850nm	
MB-DALL306-IRL-24	Infrared 880nm	
MB-DALL306-UVL-24	UV 395nm	
MB-DALL306-UVS-24	UV 365nm	
MB-DALL306-RGB-24	625nm / 530nm / 470nm (3 die packaging technology)	RGB requires voltage other than 24VDC, contact Metaphase for details

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:

Current Consumption	2.2A
Light Intensity	+/-5%
Illuminance	1 Million Lux
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

18 AWG 4 WIRES CABLE X 1

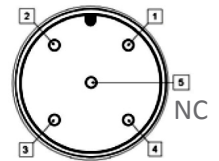
When not using intensity control, connect 0-10V control line to +24 (Max Intensity Control = 25V) and intensity control ground to ground

### HOUSING:

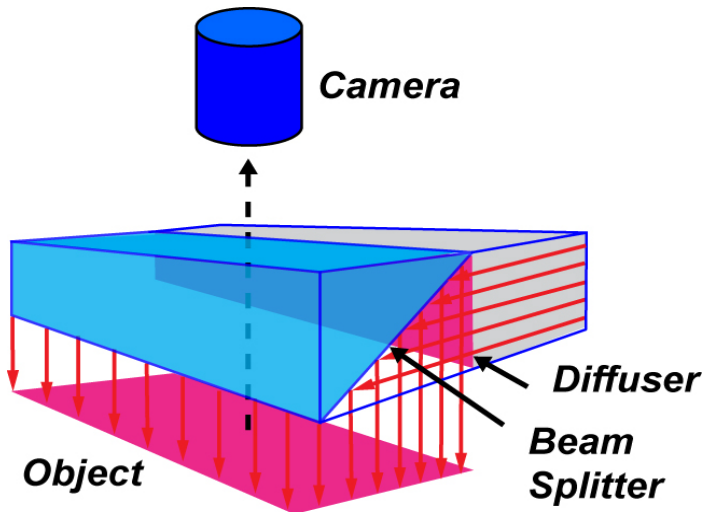
Dimensions	Length: 10.57 in / 268.478mm Width: 1.57in / 39.88mm Height: 6.65in / 168.94mm
Weight	1lb / 453.592 g
Housing	Aluminum
Finish	Powder Coating - Black

### WIRING DIAGRAM:

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



### Application:



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## DRAWING & DETAILS:

Please contact Metaphase Technologies for the  
2D drawing of this light at:  
215-639-8699 or  
sales@metaphase-tech.com

## ORDERING INFORMATION:

• M B - D A L L 3 0 6   -   □   - 2 4 -   □

<b>W</b> - White 6000k	<b>*BLANK</b> - 10 ft. Flying Leads
<b>R</b> - Red 630nm	<b>T</b> - M12 Quick Disconnect
<b>G</b> - Green 530nm	<b>ILD</b> - In Line Dimmer
<b>B</b> - Blue 470 nm	<b>ILS</b> - In Line Strobe (customer provide trigger info)
<b>IRN</b> - Infrared 850nm	<b>LL</b> - Long Focal Lens
<b>IRL</b> - Infrared 880nm	
<b>UVL</b> - UV 395nm	
<b>UVS</b> - UV 365nm	
<b>RGB</b> - 625nm / 530nm / 470nm	