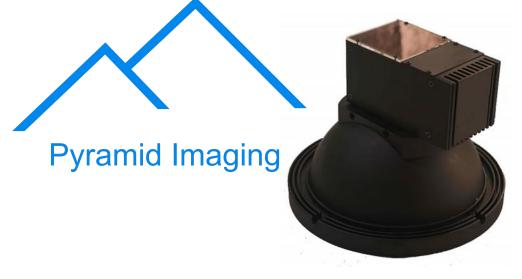
#### PRODUCT DATA SHEET



### MB-CO

Dome lights are ideal for providing even illumination of curved, specular or rough surfaces. Coaxial lights provide diffused on-axis illumination. Using the coaxial light with a dome light allows for complete, uniform, and diffused lighting by filling the void created by the dome's camera viewing port. The Metaphase CODL (Co-Axial Dome Light) conveniently packages these units together to make integration of the DAL with the Dome light simple and easy. The Dome and Coaxial portions of the MB-CODL have separate intensity control lines.



#### **FEATURES**

- High intensity and uniform, non-directional illumination across the entire lighting hemisphere
- Ideal for highly reflective surfaces and textured or topographic objects
- LED thermal management for stable performance
- Provides cloudy day illumination, minimizing shadows and glare
- Flicker free performance and instant start up with Metaphase analog driver technology
- Enclosed workspace blocks interference of ambient light
- Optical grade reflector coating reflects 99.9% of light for optimum diffused output
- Built-in Constant Current Driver with 0-10VDC Intensity control for both the Co-axial and Dome zones
- Compatible with DDC-3 and ILD-35 Dimmers
- External Constant Current driver (ULC-2) versions available

WAVELENGTHS				
Order ID	Description / nanometers			
W	White (6000K), Nominal			
R	Red / 630nm			
G	Green / 530nm			
В	Blue / 470nm			
IR850	Infrared / 850nm			
UV365	Ultraviolet Short / 365nm			

#### **GENERAL SPECIFICATIONS**

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

# MetaBright™ Co-Axial Dome Lights

#### PRODUCT DATA SHEET



## MB-CO

		Co-Axial Dome	Lights				
Model*	"CO" is Co-Axial Light followed by Active Area [inches x inches] "DL" is Dome Light followed by model # Identifier Expanded Model #	DOME ID (Inside Diameter) = Active Area Dome Dimensions: OD x ID x H Inches (cm)	Weight Ibs (Kg)	Cable QTY (one per light)	Cable Length	Standard Cable Description AWG/Conductors	Total (both lights) Typical Current @24VDC (White)
MB-CO1DL2	MB-CO1x1DL206	4.00 x <b>1.86</b> x 3.40 (10.16 x 4.71 x 8.64)	1.6 (.72)			Coax 24/4	0.4A
WID COIDE2	WID COIXIDE200	7.40 x <b>4.00</b> x 4.35	1.0 (.72)			Dome	0.47
MB-CO1DL3	MB-CO1x1DL306	(18.80 x 10.16 x 11.05)	2.6 (1.18)			24/4	0.7A
		11.53 x <b>7.00</b> x 6.48					
MB-CO1DL4	MB-CO1x1DL406	(29.28 x 17.78 x 16.46)	4.2 (1.90)			Coax	1.1A
MB-CO2DL6	MB-CO2x2DL606	18.90 x <b>12.00</b> x 10.64 (48.01 x 30.48 x 27.03)	12.6 (5.72)	2	10ft	24/4 Dome	1.7A
		25.08 x <b>17.5</b> x 13.11		2	1011	18/4	
MB-CO2DL7	MB-CO2x2DL706	(63.70 x 44.45 x 33.30)	19.0 (8.62)				2.3A
MB-CO2DL9	MB-CO2x2DL906	36.00 x <b>27.50</b> x 18.90 (91.44 x 69.85 x 48.00)	36.5 (16.6)			Coax	3.9A
		43.00 x <b>34.56</b> x 23.12		1		24/4	
MB-CO2DL10	MB-CO2x2DL1006	(109.2 x 87.78 x 58.72)	44.1 (20.0)			Dome	6.4A
		52.00 x <b>43.56</b> x 26.82				18/6	
MB-CO2DL12	MB-CO2x2DL1206	(132.1 x 110.6 x 73.20)	59.0 (26.8)				9.0A

\*Custom sizes and configurations available



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### PRODUCT DATA SHEET



### MB-CO

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)				

Wiring (6 conductors, flying leads)**					
Wire Color	Color Function				
RED, BROWN	+24VDC				
YELLOW	SIGNAL GROUND				
BLACK, BLUE	GROUND (24V RTN)				
ORANGE	0-10VDC INTENSITY CONTROL				
When not using Intensity Control, connect the 0-10V control line to +24VDC and connect Signal Ground to Ground (24V RTN)					

Wiring (6 conductors, without Intensity Control)				
Wire Color	Function			
RED	+24VDC			
BROWN	+24VDC			
ORANGE	+24VDC			
BLACK	GROUND (24V RTN)			
BLUE	GROUND (24V RTN)			
YELLOW	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 (4 conductor)						
Wire Color Function						
RED, WHITE (+)						
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™						
<b>Co-Axial</b>	Dome	Lights				

PRODUCT DATA SHEET



#### MB-CO

	UMBER KEY				DRIVER*		CABLE		CONN.**
MODEL	(inside diameter)	-	WAVELENGTH	-	(most common)	-	LENGTH	-	(most common)
MB-CO	ххх	-	XXXXX	-	xxxxxxx	-	ххх	-	хххх
MB-CO	<b>1DL2</b> (Ø1.86")		W (White 6000K, Nominal)		24Z		5M		M12D <sup>1 2</sup>
	<b>1DL3</b> (Ø4.00")		<b>R</b> (Red 630nm)		24NZ		10M		BC <sup>1 3</sup>
	<b>2DL3</b> (Ø4.00")		<b>G</b> (Green 530nm)		24-ILSXXX				
	<b>2DL4</b> (Ø7.00")		<b>B</b> (Blue 470nm)		24-ILD				
	<b>2DL6</b> (Ø12.0")		<b>IR850</b> (Infrared 850nm)		U <sup>1</sup>				
	<b>2DL7</b> (Ø17.5")		UV365 (UV Short 365nm)						
	<b>2DL9</b> (Ø27.5")								
	<b>2DL10</b> (Ø34.56")								
	<b>2DL12</b> (Ø43.56")						Length can be customized: ex.7M=7meters		Select or
							Select or		leave blank
					XXX=rate in µs		leave blank		for flying
					Example: 250		for 3 meters		leads
•	1: MB-CO1DL3-W-24 2: MB-CO2DL7-W-U								

<sup>3</sup>Default cable length for a Barrel Connector is 10 feet

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.

Link to \*Driver Options Key / \*\*Connector Options Key



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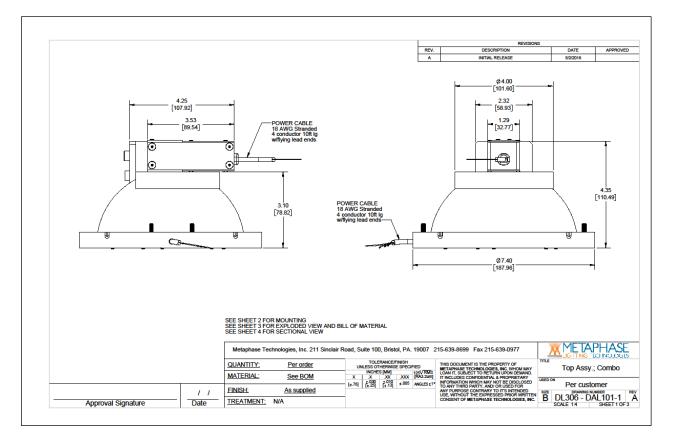
## MetaBright™ Co-Axial Dome Lights

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### MB-CO

#### Sample Model Number: MB-CO1DL3-W-24Z





945 East 11th Avenue Tampa, FL 33605

Phone: (813) 984-0125

Contact: Sales@ pyramidimaging.com

https://pyramidimaging.com

**COMPLIANCE** 





Contact Metaphase Technologies at **215-639-8699** or your local representative for additional details, options and customizations.

**CONTACT US** 

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