PRODUCT DATA SHEET



NWHP-CDT

The Narrow Width High Power Compact Diffused Tube line light is one of the best kept secrets in line scan. It is a low profile, narrow body version of Metaphase's diffused tube line light with an aperture designed for line scan applications. Our High-Power version boasts brightness three times greater than the standard power Compact Diffused Tube Line Light. Its diffused and multi-directional light output makes this light ideal for inspecting highly specular objects. The CDT allows you to see beyond clear plastic and illuminates the product with minimal glare and feedback from the plastic wrap. With its highly diffused light output you can image metallic materials and curved items with minimal glare or hot spotting.



FEATURES

- Compact design and aperture for line scan
- Diffused and multi-directional light output for highly specular applications
- Lengths range from 5 inches to 80 inches
- High Uniformity using Metaphase's unique diffuser technology
- Standard configurations are built with an In-Line Dimmer for manual intensity control
- Remote Intensity control option is available (ILZ)

WAVELENGTHS						
Order ID	Description / nanometers					
W	White (6000K), Nominal					
R	Red / 630nm					
G	Green / 530nm					
В	Blue / 470nm					
IR850	Infrared / 850nm					
IR940	Infrared / 940nm					
UV395	Ultraviolet Long / 395nm					
RGB	Red-Green-Blue					

GENERAL SPECIFICATIONS

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)

Illuminance (white): 170K Lux, minimal

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Narrow Width High Power Compact Diffused Tube Line Lights										
All models: Overall W=3.17", Camera Slot W=0.2"			Cable(s)			Typical Current (Amps) @24VDC				
MODEL*	Overall Length Inches / cm	Camera Slot Length Inches / cm	Weight Ibs/Kg	Quantity	Length	AWG/ Conductors	Visable (White, Red, Green, Blue)	IR	UVS	UVL
NWHP-CDT209	5.78 / 14.68	4.6 / 11.68	≈2.9 / 1.3				1.5A max.			
NWHP-CDT309	10.78 / 27.38	9.6 / 24.38	3.8 / 1.7				2.0A max.			
NWHP-CDT409	15.78 / 40.08	14.6 / 37.08	5.5 / 2.5				2.7A max.			
NWHP-CDT509	20.78 / 52.78	19.6 / 49.78	7.3 / 3.3				3.5A max.			
NWHP-CDT609	25.78 / 65.48	24.6 / 62.48	9.0 / 4.1				4.4A max			
NWHP-CDT709	30.78 / 78.18	29.6 / 75.18	10.8 / 4.9	1			5.3A max			
NWHP-CDT809	35.78 / 90.88	34.6 / 87.88	12.5 / 5.7	_			6.3A max			
NWHP-CDT909	40.78 / 103.6	39.6 / 100.6	14.3 / 6.5		10# 1	18/4	7.0A max.			
NWHP-CDT1009	45.78 / 116.3	44.6 / 113.3	16.1 / 7.3		1010	10/4	7.8A max.			
NWHP-CDT1109	50.78 / 129.0	49.6 / 126.0								
NWHP-CDT1209	55.78 / 141.7	54.6 / 138.7								
NWHP-CDT1309	60.78 / 154.4	59.6 / 151.4								
NWHP-CDT1409	65.78 / 167.1	64.6 / 164.7								
NWHP-CDT1509	70.78 / 179.8	69.6 / 176.8		2						
NWHP-CDT1609	75.78 / 192.5	74.6 / 189.5								
NWHP-CDT1709	80.78 / 205.2	79.6 / 202.2								

^{*}Custom sizes and configurations are available



NWHP-CDT

Wiring (from attached ILD)						
Wire Color	Function					
RED	+24VDC					
WHITE	+24VDC					
GREEN	GROUND (24 RTN)					
BLACK	GROUND (24 RTN)					

Wiring/Connections (from attached ILZ)								
Wire Color	Function							
RED	+24VDC							
WHITE	+24VDC							
GREEN	GROUND (24 RTN)							
BLACK	GROUND (24 RTN)							
+IN (Terminal)	0-10VDC Intensity Control							
GND (Terminal)	SIGNAL GROUND							

M12 (from attached ILD)					
Pin#	Function				
1	+24VDC				
2	+24VDC				
3	GROUND (24V RTN)				
4	GROUND (24V RTN)				
5	No Connection				

The M12 connector option is not recommended for lights rated more than 4 amps

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	LENGTH ID (inches)	-	WAVELENGTH	-	DRIVER* (most common)	-	CABLE LENGTH	1	CONN.** (most common)
NWHP-CDT	XXXX	-	xxxxx	-	XXX-XXXXXX	-	xxx	1	XXXX
NWHP-CDT	209 to 1709 (See above chart)				24-ILZ 24-ILSXXX 24-ILD		5M 10M		M12D ^{1 2} BC ^{1 3}
			RGB (Red-Green-Blue)		24-ILZ3 24-ILD3 XXX=rate in µs Example: 250		Length can be customized: ex.7M=7meters Select or leave blank for 3 meters		Select or leave blank for flying leads

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.

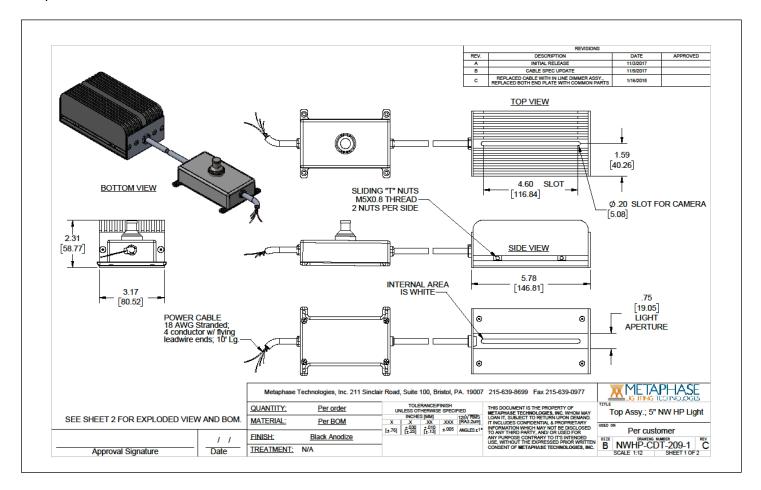
Link to *Driver Options Key / **Connector Options Key

³Default cable length for a Barrel Connector is 10 feet



NWHP-CDT

Sample Model Number: NWHP-CDT209-W-24-ILD



COMPLIANCE





CONTACT US

For more information please contact:



Tel: (416) 674-2804 sales@bockoptronics.ca www.bockoptronics.ca

