



MetaLight™ Line Light Model:LL1004



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.

Our MetaLight™ Line Lights feature an adjustable lens, enhanced cooling options, and low current consumption.

BENEFITS:

- High Uniformity both laterally and longitudinally
- Lens Options for various beam widths and working distances
- Strobe synchronization; Control compatibility for high precision pulse-modulation and 0-10V Intensity Control capability
- Adjustable lens focusing range of mm to meters
- Backlight versions for web backlight & silhouetting applications
- From 1" to 120" (10ft) in length
- Built-in constant current driver(s) provides consistent illumination output
- 24V version require no special controllers; simply provide 24VDC

APPLICATIONS:

- Road Surface Inspection
- Bottle Inspection
- High Speed Scanning
- Geometry Measurement
- Detection of Holes
- Sheet Inspection
- Web Inspection
- Print Inspection
- Fabrics Inspection
- Solar Cells

RATINGS:



DOMINANT WAVELENGTH:

Part #	Color	Power Supply
LL1004-W-24	White 5500K	
LL1004-R-24	Red 630nm	
LL1004-B-24	Blue 470nm (Optional 455nm)	
LL1004-G-24	Green 530nm	24 volt power supply available upon request.
LL1004-IRN-24	Infrared 850nm	

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	2.05A
Light Intensity	+/-5%
Illuminance	220,000 Lux
Operating Temperature	-40°F(-45°) to 100°F (37.8°C)
Lifetime Hours	75,000 Hours

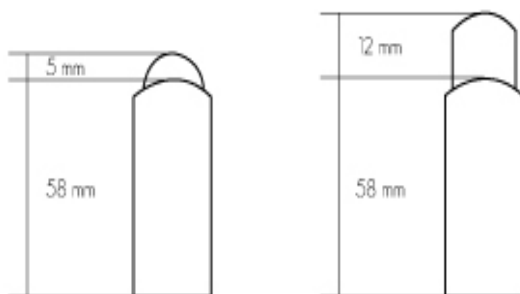
WIRING DIAGRAM:

WHITE & RED	+24VDC
GREEN	Signal Ground
BLACK & GREEN	Ground
WHITE	0-10VDC Intensity Control

16 AWG 4 WIRES CABLE X 1 w/ 24 AWG 2 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:

Metelight Line Light Lens Options

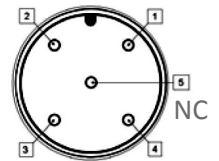


HOUSING:

Dimensions	Length: 36.27in / 921.3mm Width: 1in / 25.4mm Height: 2.95in / 74.88mm
Weight	4.5lb/ 2041.17g
Housing	Aluminum
Finish	Powder Coating - Black

WIRING DIAGRAM:

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





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DRAWING & DETAILS:

Please Contact Metaphase Technologies for
2D Drawing of this light:

215-639-8699 or
sales@metaphase-tech.com

ORDERING INFORMATION:

• LL1004 - - 24 -

Back Line Light Option:

Replace designator “LL” with
“BLL” on the prefix for units
deployed in transmitted imag-
ing applications.

ex: BLL1004-R-24

W- White 6000k

R- Red 630nm

G- Green 530nm

B- Blue 470 nm
(Optional 450nm)

IRN- Infrared 850nm

***BLANK**- 10 ft. Flying Leads

T- M12 Quick Disconnect

ILD- In Line Dimmer

ILS- In Line Strobe (customer provide trigger info)

LL - Long Focal Lens

* Intensity will be lower for NON-Fan option