



MetaLight™ Line Light Model:LL404



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
LL404-W-24	White 5500K	
LL404-R-24	Red 630nm	
LL404-B-24	Blue 470nm (Optional 455nm)	
LL404-G-24	Green 530nm	24 volt power supply available upon request.
LL404-IRN-24	Infrared 850nm	

10 ft. flying leads come standard on all products.
Light features built-in constant current driver.
No expensive controller required.



MetaLight™ Line Light

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ELECTRICAL & CONTROLS:

Current Consumption	0.75A - 1.0A
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:

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: 16in / 406.4mm Width: 1in / 25.4mm Height: 2.95in / 74.88mm
Weight	1.25lb/ 566.99g
Housing	Aluminum
Finish	Powder Coating - Black

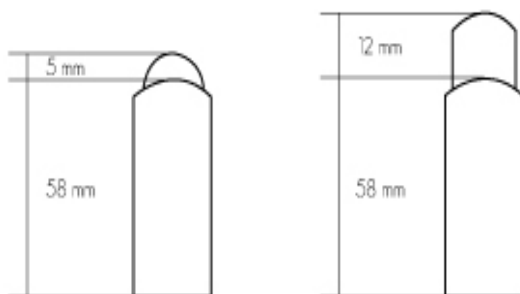
WIRING DIAGRAM:

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



FOCAL LENS:

MetaLight Line Light Lens Options





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DRAWING & DETAILS:

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED

Metaphase Technologies, Inc. 3412 Progress Drive, Unit C, Bensalem, PA. 19020 215-639-8699 Fax 215-639-0977										
QUANTITY: Per order	TOLERANCE/FINISH UNLESS OTHERWISE SPECIFIED	<small>THIS DOCUMENT IS THE PROPERTY OF METAPHASE TECHNOLOGIES, INC. WHOM MAY LOAN IT, SUBJECT TO RETURN UPON DEMAND. IT INCLUDES CONFIDENTIAL & PROPRIETARY INFORMATION WHICH MAY NOT BE DISCLOSED TO ANY THIRD PARTY, AND/OR USED FOR ANY PURPOSE CONTRARY TO ITS INTENDED USE, WITHOUT THE EXPRESSED PRIOR WRITTEN CONSENT OF METAPHASE TECHNOLOGIES, INC.</small>								
MATERIAL: See BOM	INCHES(MM) 125V RMS [RA3.2um]									
FINISH: Black Anodize	X .X .XX .XXX [±.76] [±.030] [±.010] [±.13] ±.005 ANGLE±1°									
TREATMENT: N/A										
<i>The T.H.H.</i> Approval Signature	01/11 2013 Date	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td colspan="2">TITLE Top Assy.; 16" Light</td> </tr> <tr> <td colspan="2">USED ON Per customer</td> </tr> <tr> <td>SIZE B</td> <td>DRAWING NUMBER LL404-1</td> </tr> <tr> <td>SCALE 1:2</td> <td>REV A SHEET 1 OF 2</td> </tr> </table>	TITLE Top Assy.; 16" Light		USED ON Per customer		SIZE B	DRAWING NUMBER LL404-1	SCALE 1:2	REV A SHEET 1 OF 2
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SCALE 1:2	REV A SHEET 1 OF 2									

ORDERING INFORMATION:

• LL404 - - 24 -

Back Line Light Option:
Replace designator "LL" with "BLL" on the prefix for units deployed in transmitted imaging applications.
ex: BLL404-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