ISO2

Wavelengths from 1050nm to 1650nm are now offered in the Exolight v2.0 model. Short-wave infrared technology provides the necessary contrast to illuminate test objects that visible and ultraviolet light cannot provide.

The Exolight v2.0 includes molded Lumiform diffuser that provides a dramatic increase in uniformity, coverage area, and is resistant to impact. With a 120° spread of uniform lighting, the EXO2 is perfect for even the most sensitive area scan application and its high level of diffusion makes it a great candidate for transmission or backlight applications; even for line scan. Hard molding makes the diffuser extremely durable to impact and can be configured for an IP rating with greater water and dust resistance.

Available Wavelengths

| 1050nm | 1200nm | 1300nm | 1450nm | 1550nm | 1650nm |

Broadband IR

is available for the SWIR Exo2 model. The SWIR Exo2 can be configured with any combination of these six available wavelengths.

FEATURES

- Lumiform diffuser with 120° (±10%) uniform lighting
- Hard molded diffuser for durability and resistance to impacts
- Features a clamping style tilt bracket to allow for easy positioning from 0 – 180°
- Available in a limited amount of standard sizes but can be custom designed per order
- Built-in Constant Current Driver with 0 – 10V intensity control.
- Compatible with DDC-3 and ILD-35-24-L Dimmers

WAVELENGTH (nanometers)

W	White 6000K, Nominal
SWIR	1050nm
SWIR	1200nm
SWIR	1300nm
SWIR	1450nm
SWIR	1550nm
SWIR	1650nm

SPECIFICATIONS

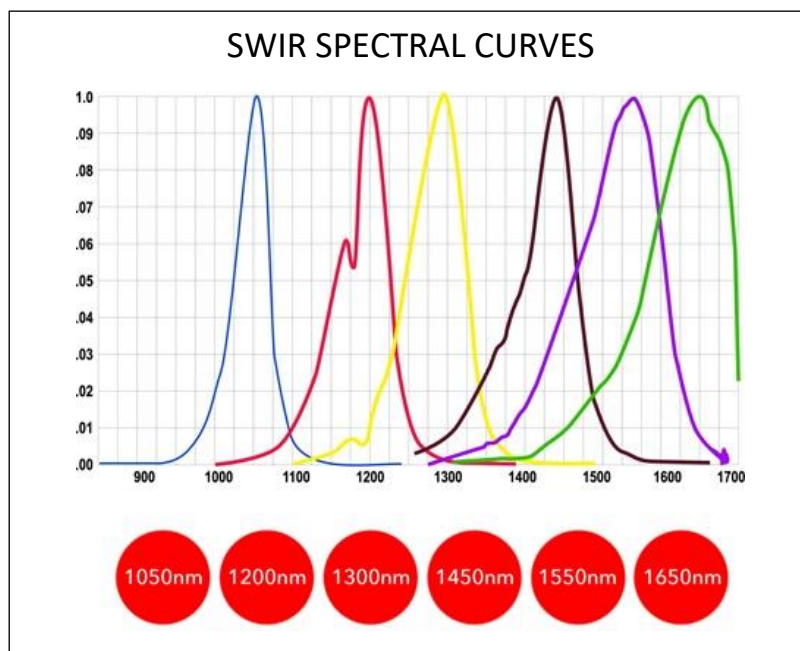|	
Power Source:	24VDC ±5%
Cable (Standard):	10 ft. (3 m) with flying leads
Housing:	Black Anodized Aluminum
IP Rating:	IP65 sealed, IP50 unsealed
Ambient Temperature:	-20°C to 40°C

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ISO2

MODEL*	Lens Length Inches (cm)	Weight lbs/Kg	Cable QTY	Cable Length	Cable Description	Max. Current @24VDC
					SWIR EXO2 LIGHTS	
ISO2-10	11.51 (29.2)	2.07 / .939				0.5A max
ISO2-20	21.62 (54.9)	3.67 / 1.66			18 AWG, 4 Conductor and 24 AWG, 8 Conductor	1.2A max.
ISO2-30	31.73 (80.6)	5.39 / 2.44	2	10ft		1.8A max.
ISO2-40	41.73 (106.0)	7.09 / 3.22				2.5A max.
ISO2-50	51.73 (131.4)	8.54 / 3.87				3.2A max.

Cable#1 Wiring (4 conductor)	
Wire Color	Function
RED	+24VDC
WHITE	+24VDC
BLACK	GROUND (24V RTN)
GREEN	GROUND (24V RTN)

Cable#2 Wiring (8 conductor)	
Wire Color	Function
BROWN	IR1050, 0-10V Intensity Control
ORANGE	IR1200, 0-10V Intensity Control
BLUE	IR1300, 0-10V Intensity Control
GREEN	IR1450, 0-10V Intensity Control
BROWN-white	IR1550, 0-10V Intensity Control
ORANGE-white	IR1650, 0-10V Intensity Control
BLUE-white	No Connection
GREEN-white	No Connection

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).

SWIR SPECTRAL CURVES

1050nm 1200nm 1300nm 1450nm 1550nm 1650nm

METAPHASE
LIGHTING TECHNOLOGIES

ISO2

PART NUMBER KEY													
MODEL	-	LENGTH ID (inches)	-	WAVELENGTH	-	DRIVER* (most common)	-	POLARIZER	-	COVER	-	CABLE LENGTH	-	CONN.** (most Common)
ISO2	-	XX	-	XXXXX	-	XXX-XXXXXX	-	XXXX	-	XX	-	XXX	-	XXXX
ISO2		**10** (10") **20** (20") **30** (30") **40** (40") **50** (50")		**W** (White 6000K, Nominal) **IR05** (Infrared 1050nm) **IR20** (Infrared 1200nm) **IR30** (Infrared 1300nm) **IR45** (Infrared 1450nm) **IR55** (Infrared 1550nm) **IR65** (Infrared 1650nm) Select up to six wavelengths		**24Z** **24Z-TRG** **24-ILSXXX** **24-ILD** **U**[1] XXX=rate in µs Example: 250		**POL0** Must use CC with Polarizer Select or leave blank for no polarizer		**CC** Select or leave blank for frosted cover		**5M** **10M** Length can be customized: ex.7M=7meters Select or leave blank for 3 meters		**M12D**[1][2] **BC**[1][3] Select or leave blank for flying leads

Example 1: **ISO2-10-IR05IR20IR30IR45IR55-24Z**
Example 2: **ISO2-40-IR20IR30IR45IR55IR65-24Z**

[1]Not available in lights exceeding 4A input current
[2]Default cable length for an M12D connector is 19 inches
[3]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)   **(Link to Connector Key)

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METAPHASE LIGHTING TECHNOLOGIES

ISO2

Sample Part Number: **ISO2-10-IR05IR20IR30IR45IR55-24Z**

	REVISIONS		
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	6/21/2016	

LIGHT HOUSING IS ADJUSTABLE UP TO 95° IN EACH DIRECTION.

120° LIGHT ARC

3.68 [93.4]

2.60 [66]

HEX NUT(S) FOR ADJUSTING LIGHT ANGLE

POWER CABLE

11.51 FROSTED LENS [292.4]

HEAT SINK (MATT BLACK ANODIZE)

MOUNTING BRACKET(S)

.63 [15.9] MOUNTING SLOT

14.51 [368.5]

Ø .343 SLOT [8.71]

13.64 MOUNTING SLOTS [346.33]

SEE SHEET 2 FOR EXPLODED VIEW AND BOM

Metaphase Technologies, Inc. 211 Sinclair Road, Suite 100, Bristol, PA. 19007 215-639-8699 Fax 215-639-0977

QUANTITY:	Per order
MATERIAL:	See BOM
FINISH:	Matt Black Anodize
TREATMENT:	N/A

TOLERANCE/FINISH UNLESS OTHERWISE SPECIFIED INCHES [MM]
125V RMS [RA3.2um]

X	.X	.XX	.XXX	
[±.76]	±.030 [±.25]	±.010 [±.13]	±.005	ANGLES ±1°

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TITLE: ISO2 RGB-24-10 Light-10" LG
USED ON: Per customer

SIZE	DRAWING NUMBER	REV
B	ISO2-RGB-24-10-1	A

SCALE 1:12　SHEET 1 OF 1

Approval Signature　　/ /　Date

Pyramid Imaging

945 East 11th Avenue Tampa, FL 33605

Phone: (813) 984-0125

Contact: Sales@ pyramidimaging.com

https://pyramidimaging.com

COMPLIANCE	CONTACT US

RoHS compliant　　CE

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

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