

### ELECTRICAL:

Input Voltage: 23.5-26.4VDC (24VDC  $\pm$ 10% burst disabled)  
 Input Current: 350 to 650mA typical (3.0A max for burst) @24VDC  
*Note: Power supply must be capable of 3.0A per light for burst feature to work correctly with supplied cable.*  
 Strobe Input Impedance: 10K $\Omega$  – PNP typical, 9.1K $\Omega$  – NPN typical  
 Strobe Timing: <20 microseconds from strobe to LED on  
 0-10V Input Impedance: 15K $\Omega$  typical  
 0-10V Input Control: 0V = 100%, 10V = 0% LED current. (Can be left disconnected for 100% LED current)  
 Variable Intensity: Adjustable via trim potentiometer from 0% (CCW) to 100% (CW).

Wiring:	Pin #	Wire Color	Function
	1	Brown	+23.5 to +26.4VDC
	2	White	NPN STROBE INPUT: GND for "ON", Open or >Vin-1V for "OFF"
	3	Blue	0VDC (DC GND)
	4	Black	PNP STROBE INPUT: < 1 VDC for "OFF", >3 $\leq$ 30 VDC for "ON"
	5	Grey or Green/Yellow	0-10VDC analog intensity control – 0V = 100%, 10V = 0%

### ENVIRONMENTAL:

Operating Temperature: 0 to 50°C  
 Relative Humidity: 5 to 85% non-condensing

### MECHANICAL:

Lighted Area: 3.5" / 89mm  
 Connector: M12 - 5 pin  
 Weight: 0.85lbs (386g)

### ILLUMINATION:

Light Source: LED – 4 Colors, UV and IR  
 Quantity HB LED's: 6 LED's  
 Light Emitting Pattern: 3.5" / 89mm  
 LED Life: up to 100,000 hours\*.  
 \*Contact us for LED life information

### PART NUMBER DESIGNATION: MRLD3.5-XXX

XXX = Light Color – see table dash # below

Color	Dash #	$\lambda$ Dominant Typical	$\lambda$ Dominant Range	Spectral Half-width $\Delta\lambda_{1/2}$	$\lambda$ Peak Typical	Units
Infrared	-940	940	n/a	37	950	nm
Infrared	-850	850	n/a	30	860	nm
Red	-630	625	620 - 630	n/a	n/a	nm
Green	-530	530	520 - 535	n/a	n/a	nm
Blue	-470	475	465 - 485	n/a	n/a	nm
Ultra Violet	-395	395	390 - 410	n/a	n/a	nm
Ultra Violet	-365	365	n/a	n/a	360 - 370	nm
Pure White	-WHI	Color Temp 5700 - 7000K CRI 70 typ				
Natural White	-NWH	Color Temp 3800 - 5000K CRI 70 typ*				
Warm White	-WWH	Color Temp 2700 - 3750K CRI 70 typ*				

\* higher CRI available on request



### FEATURES:

- Built-in Driver
- Auto Burst – LED high current for 500 $\mu$ s  $\pm$ 10%, then drops to standard current
- Auto Burst Disable Switch
- 0-10VDC Intensity Control
- Potentiometer Intensity Control
- PWM Dimming Capable (with Auto Burst disabled)
- Includes hardware to mount on Cognex Series 5000 and 9000 cameras

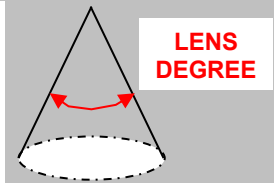
Light includes 1 EC3 3-meter cable – cable also available in 5 meter length



Monster Lights have changeable lenses for matching the area of illumination with the working distance



Monster Lenses - P/N MRLD3.5-XXX/XX	
12° Narrow (Standard)	/16 – 16° Frosted Narrow
/30 – 30° Medium Angle	/23 – 23° Frosted Medium
/50 – 50° Medium Angle	/39 – 39° Frosted Wide
/F – ~70° Wide Angle	/R60 – 60° Reflectors
/L – 44° x 12° Angle	/R – 90° Reflectors



\*\*\* UV lights are standard with 60° reflectors, other options available. \*\*\*