



SPECTRUM ILLUMINATION

RING LIGHT 3.5" / 89mm with Internal Driver

ELECTRICAL:

Input Voltage: 23.5 to 26.4VDC (24VDC ±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: 10KΩ – PNP typical, 9.1KΩ – NPN typical
 Strobe Timing: <20 microseconds from strobe to LED on
 0-10V Input Impedance: 15KΩ 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 ≤30 VDC for "ON"
5	Grey or Green/Yellow	0-10VDC analog intensity control – 0V = 100%, 10V = 0%



ILLUMINATION:

Light Source: LED – 6 Colors, UV & IR
 Quantity HB LED's: 6
 Light Emitting Area: 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 - 470, 505, 530, 590, 630, WHI, 365, 395, 850 & 940

Color	Dash #	λ Dominant Typical	λ Dominant Range	Spectral Half-width Δλ½	λ Peak Typical	Units
Infrared	-940	935	n/a	45	940	nm
Infrared	-850	845	n/a	40	850	nm
Red	-630	625	620 - 650	20	638	nm
Amber	-590	590	584 - 598	14	592	nm
Green	-530	530	519 - 561	35	522	nm
Cyan	-505	505	489 - 521	30	503	nm
Blue	-470	470	459 - 491	25	464	nm
Ultra Violet	-395	395	390 - 410	n/a	n/a	nm
Ultra Violet	-365	365	n/a	8	365	nm
White	-WHI	Color Temp		5700 - 7000K		



Features:

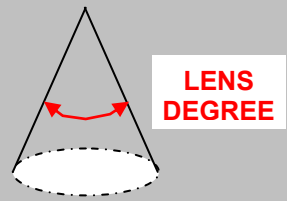
- Built-in Driver
- Auto Burst Disable Switch
- 0 -10VDC Intensity Control
- Potentiometer Intensity Control
- PWM Dimming Capable (with Auto Burst disabled)
- Auto Burst – LED high current for 500µs ±10%, then drops to standard current
- Includes hardware to mount on Cognex Series 5000 camera's.

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



Monster Lenses - P/N RL3.5-XXX/XX

- 12° Narrow (Standard)
- /30 – 30° Medium Angle
- /50 – 50° Medium Angle
- /F – ~70° Wide Angle
- /L – 25° x 6° Angle



*** UV lights are available with 60 degree reflectors only ***



Pyramid Imaging Inc
 945 East 11th Avenue
 Tampa, FL 33605
<https://pyramidimaging.com>
Sales@pyramidimaging.com
 (813) 984-0125