

### 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

### ILLUMINATION:

Light Source: LED - 6 Colors, UV & IR  
 Quantity HB LED's: 12  
 Light Emitting Pattern: 5.5" / 140mm  
 LED Life: up to 100,000 hours\*

\*Contact us for LED life information

**PART NUMBER DESIGNATION:** MRLD5.5-XXX XXX = Light Color - 470, 505, 530, 590, 630, WHI, 365, 395, 850 & 940.

| Color        | Dash # | $\lambda$ Dominant Typical | $\lambda$ Dominant Range | Spectral Half-width $\Delta\lambda/2$ | $\lambda$ 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 500 $\mu$ s  $\pm$ 10%, then drops to standard current

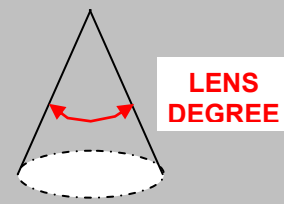


Monster Lights have changeable lenses for matching the area of illumination with the working distance



### Monster Lenses - P/N MRLD5.5-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 R60 degree reflectors only \*\*\*