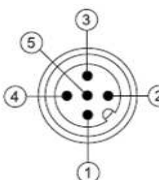


## Over Drive Features

- Highest Output LED Lights available in the Vision Industry
- SafeStrobe Technology ensures protected operation of LED's
- Driver built in – No External wiring to a driver
- 5 times brighter than standard high current LED Lights
- Industry Standard M12 Quick Disconnect
- PNP and NPN Strobe input
- High Speed >> Fast Response



Electrical Input	Voltage: 24 VDC +/- 5%											
Duty Cycle	Maximum 10%											
Strobe Input	PNP ► +4VDC or greater to activate.	NPN ► GND (<1VDC) to activate										
Current	Max 4A draw during strobe - Max Average 400mA											
Strobe / Pulse Time	Maximum Single Pulse = 125ms											
RED Indicator LED	Duty Cycle	ON = LED Rest (LED inactive) OFF = LED/Light Ready										
GREEN Indicator LED	ON = Power											
Power	Smart Vision Lights recommends 4 amps of supply current per light.											
 <p>Standard M12 mating cable color code:</p> <table> <tr> <td>1 = 24VDC</td> <td>BROWN</td> </tr> <tr> <td>2 = NPN STROBE</td> <td>WHITE</td> </tr> <tr> <td>3 = GND</td> <td>BLUE</td> </tr> <tr> <td>4 = PNP STROBE</td> <td>BLACK</td> </tr> <tr> <td>5 = No Connection</td> <td>*GRAY (GREEN/YELLOW)</td> </tr> </table>			1 = 24VDC	BROWN	2 = NPN STROBE	WHITE	3 = GND	BLUE	4 = PNP STROBE	BLACK	5 = No Connection	*GRAY (GREEN/YELLOW)
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4 = PNP STROBE	BLACK											
5 = No Connection	*GRAY (GREEN/YELLOW)											



## Important

Please note that the power requirements are 4 amps at 24VDC. Failure to supply light with 4 amps (peak) will result in non-repeatable lighting. Contact Smart Vision Lights for more information.

## ODS75 – XXX – X\* —» Part Number Key

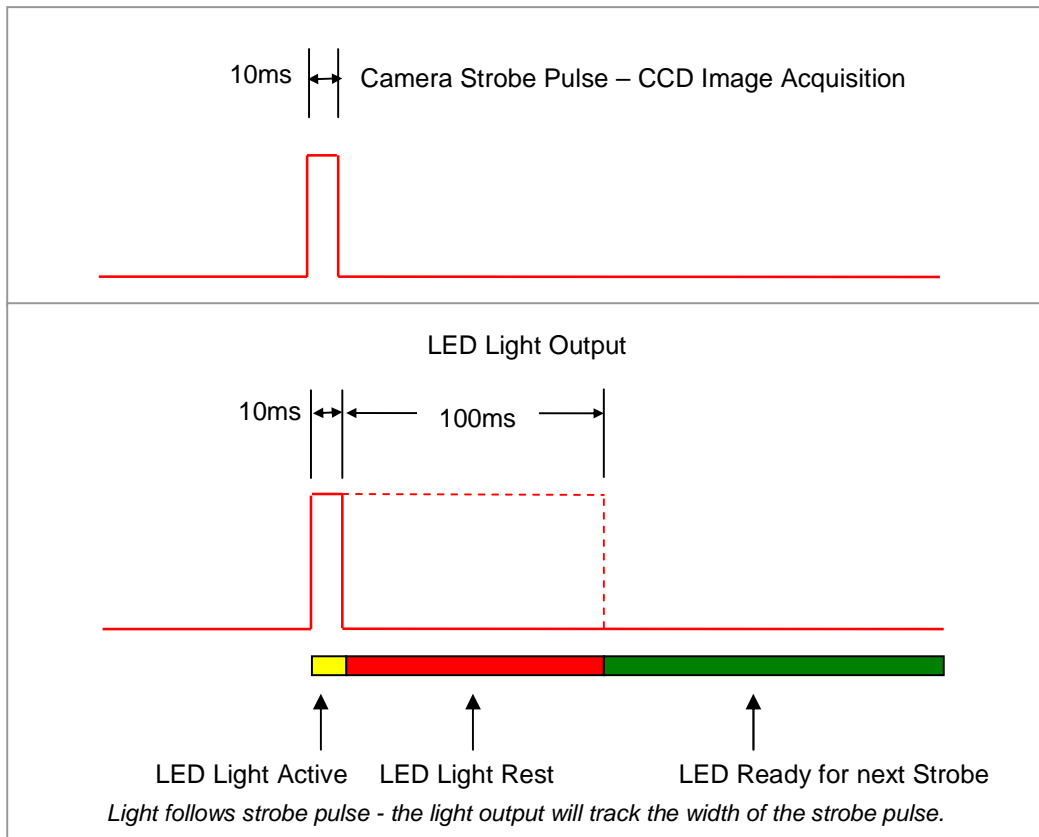
Product Family:  
Linear Light  
ODS75

Color:  
625 – Red  
White – WHI  
470 – Blue  
505 – Cyan  
530 – Green  
IR 850nm  
IR 940nm  
UV 395nm  
UV 365nm

Lenses:  
W - Wide  
L - Line

\* Lights come standard with Narrow lenses  
CE and RoHS Compliant

### Duty Cycle on Performance of Light



Duty Cycle ( $D$ ) is defined as the ratio between Strobe Time and Rest Time

Maximum Duty Cycle for ODS Light is 10% = .1

Calculating Rest Time -  $R_T$

$$R_T = \frac{S_T}{D}$$

where

$S_T$  is the Strobe Time

$R_T$  is the Rest Time

$D$  is Duty Cycle

Example: Camera exposure of 10ms where Strobe Time is 10ms

$$R_T = \frac{10\text{ms}}{.1} = 100\text{ms}$$

Rest Time is 100ms for 10ms Strobe Time