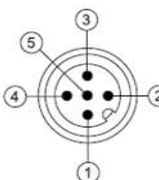## Over Drive Features

- IP68 Standards
- Stainless Steel 316 Housing
- Meets FDA Compliancy
- Designed to operate in food applications
- SafeStrobe Technology ensures protected operation of LED's
- 5 times brighter than standard high current LED Lights
- Driver built in – No External wiring to a driver

Over DRIVE

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 4 A	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.	

Standard M12 mating cable color code:

1 = 24VDC	BROWN
2 = NPN STROBE	WHITE
3 = GND	BLUE
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.
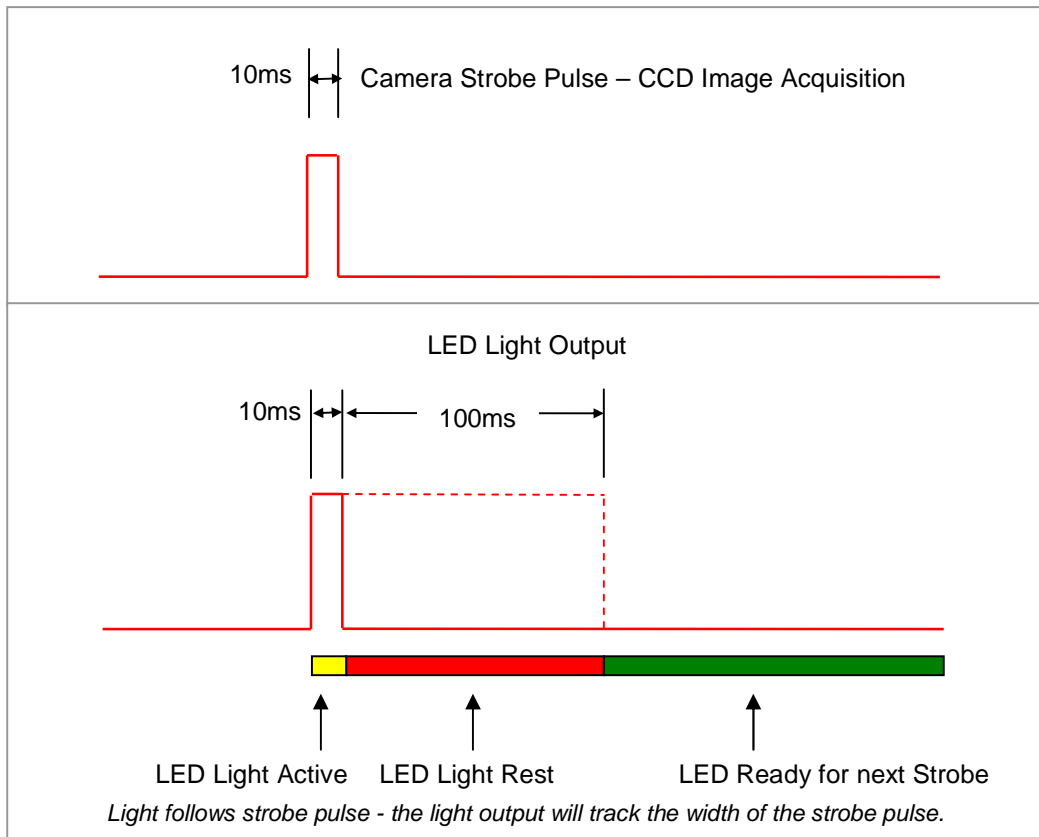
ODSW75 – XXX – __ —» Part Number Key

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

10ms ⟷ Camera Strobe Pulse – CCD Image Acquisition

LED Light Output

10ms ⟷ ⟷ 100ms

LED Light Active   LED Light Rest   LED Ready for next Strobe

Light follows strobe pulse - the light output will track the width of the strobe pulse.

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

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

Rest Time is 100ms for 10ms Strobe Time