



# Dome Light 7.09" / 180mm with Internal Driver



### 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: 10 Per Channel  
 Light Emitting Pattern: 7.09"/180mm  
 LED Life: up to 100,000 hours\*  
 \*Contact us for LED life information

**Part Number Designation:** DLD180-XXX XXX = Light Color - 470, 505, 530, 590, 630, WHI, 365, 395, 850 & 940.

DLD180-XXX

XXX = Light Color – see table dash # below

Order part number examples:

- 2 channel: DLD180-850W (850nmIR and White) or DLD180-RNW (Red and Natural White)
- 3 channel: DLD180-RGB (Red, Green and Blue) or DLD180-WUVIR (White, UV and IR)
- 4 channel: DLD180-RGBW (Red, Green, Blue and White) or DLD180-RRRR (All channels Red)



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	-R	625	620 - 630	n/a	n/a	nm
Green	-G	530	520 - 535	n/a	n/a	nm
Blue	-B	475	465 - 485	n/a	n/a	nm
Ultra Violet	-UV	395	390 - 410	n/a	n/a	nm
Pure White	-W	Color Temp 5700 - 7000K CRI 70 typ				
Natural White	-NW	Color Temp 3800 - 5000K CRI 70 typ*				
Warm White	-WW	Color Temp 2700 - 3750K CRI 70 typ*				

\* higher CRI available on request



### 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