

ColdVision CV-LS LED Light Source

for machine vision applications



CV-LS® Light Source A20980

The CV-LS light source is the flagship of the SCHOTT ColdVision series, offering high efficiency output in a compact footprint with versatile connectivity. This connectivity makes it ideal for machine vision applications, while the high brightness LED light engine greatly increases light output – far beyond 150 W EKE halogen lamp levels for the cool white model.

Features:

- Internal light feedback stabilization.
- Fast triggered strobe (25µs rise time, 1µs precision).
- Analog and digital remote control: USB (Virtual RS232), RS232, Dual Ethernet, Multiport-Wide range power supply according to international standards.
- Cool White, Warm White, and RGBW models are available.

Advantages:

- All connectors come with retention mechanisms.
- High resistance to vibration and shock.
- ESD immunity.
- Maintenance-free LED engine with 50,000 operating hours.

Part No. ¹	Color	Wavelength CCT	Light Output ²
A20980/6000K	Cool White	6000K	1350lm
A20980/3000k	Warm White	3000K	900lm
A20980/RGBW	Red Ch.	625K	130lm
	Green Ch.	530K	250lm
	Blue Ch.	460K	70lm
	White Ch.	6300K	400lm

Illumination Data ² (Cool White Model)	
Luminous Flux (Default Settings)	1100 lm
Luminous Flux (Max Output)	1350 lm
Color Rendering Index	75

Certification	
Marking	
European Directives	2006/95/EC (Low Voltage Directive) 2004/108/EC (EMC Directive) 2011/65/EU (RoHS)
EMC	IEC 61326-1:2012 FCC CFR47 Part 15B:2015 Japan Deviations
Safety	CENELEC EN 61010-1:2010 UL 61010-1:2012 CAN/CSAC22.2#61010-1:2004
Photo-biological	IEC 62471:2006

Electrical Specification	
Power Input	24VDC / 5A Max (18-28VDC)
Power Consumption	120W

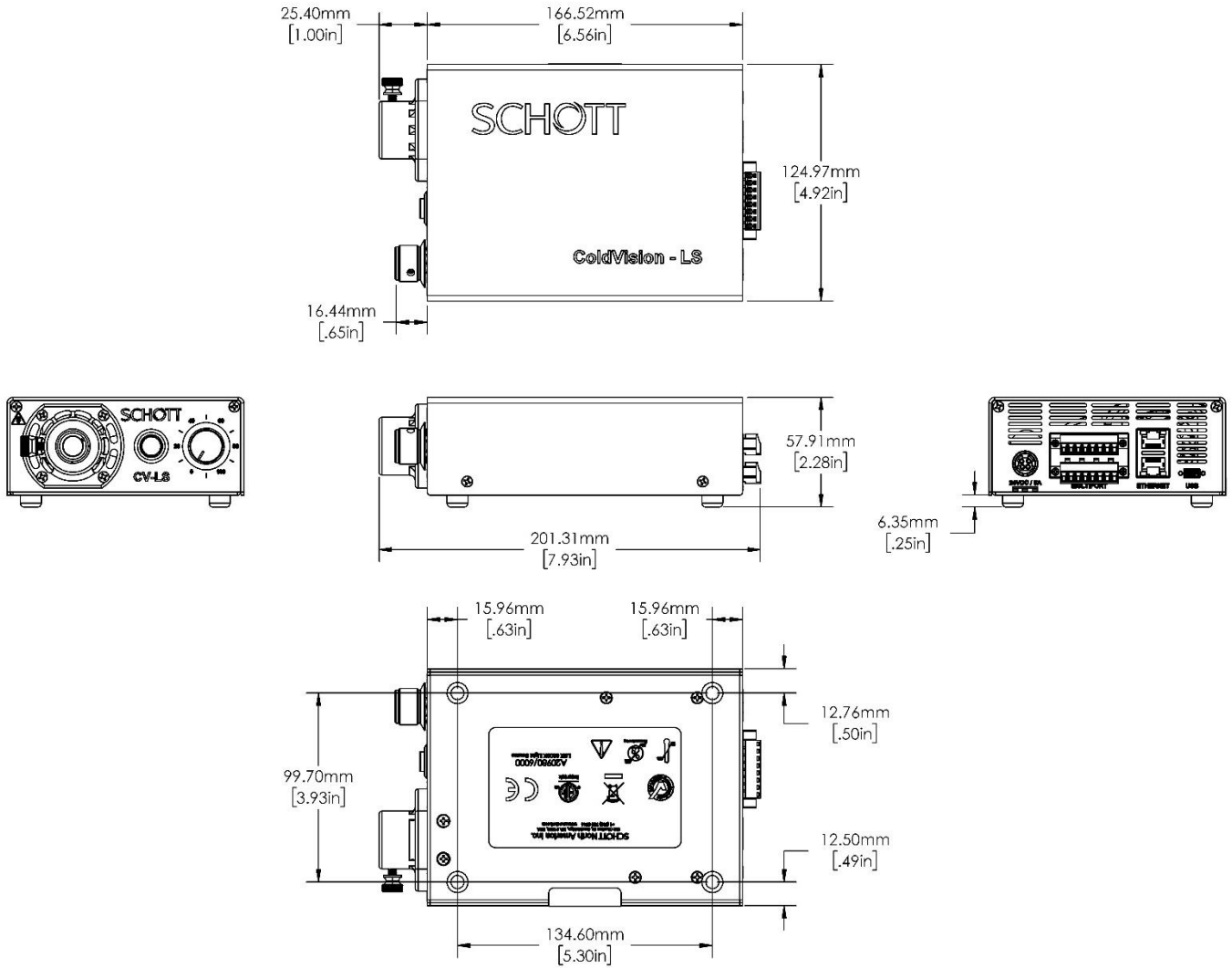
Mechanical Specification	
Dimensions (W x D x H)	5.08" x 7.93" x 2.35" (129mm x 201mm x 59,69mm)
Weight	1.8 lbs. (8,16kg)

Environmental Specification	
Operational Temperature	32°F – 113°F (0°C – 45°C)
Operational Humidity	5% to 95% Non-Condensing
Storage Temperature	-13°F – 185°F (-25°C – 85°C)

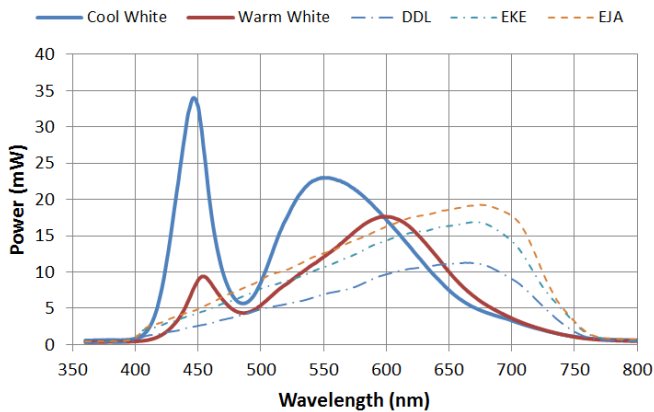
1) Full part numbers will also specify power supply cord type.
2) Measured using a SCHOTT fiber optic light guide, Ø 13 mm active, length 1 m (A08051.40 bundle), 23C ambient, typical output



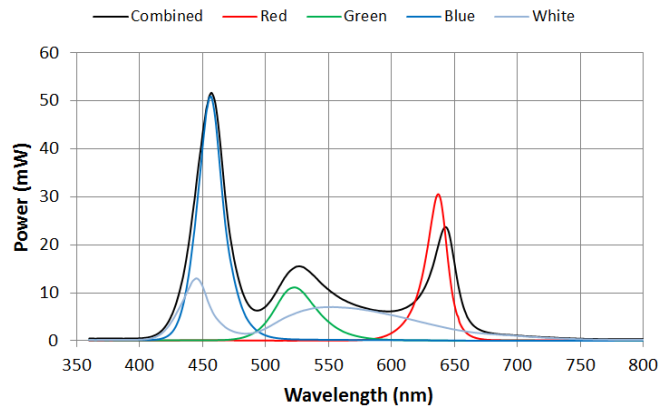
Dimensions



Relative Optical Spectrum of CV-LS vs Halogen Light Sources



RGBW Optical Spectrum



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