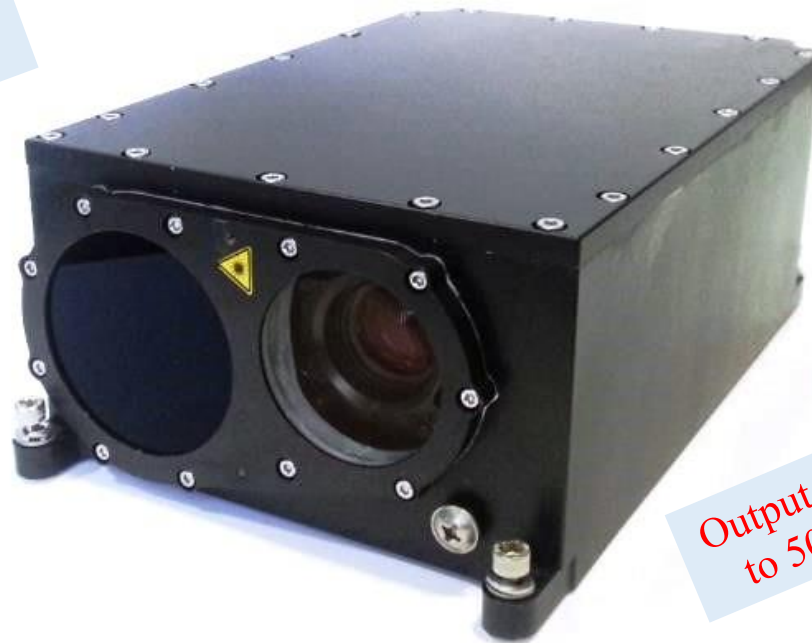




# Optical Waveform Generator

## OWG-NIR-ZC

**VIS & SWIR**  
optional



**Output power of up to 50W**  
optional

- \* 10km **Eyesafe** NIR Laser Marker
- \* Long range zoom 30<sup>x</sup> camera
- \* Manufactured for outdoor use

### FEATURES

Low weight  
Affordable cost • Cost effective  
Low Maintenance • Passive cooled  
Sealed IP67  
Operating Temperatures -12°C to +55°C

### APPLICATIONS

Pointing and marking,  
Testing of Free space communication systems, flame detection systems, spark detectors, fire detectors  
Testing of laser warning systems  
Infrared imaging



OPTICAL WAVEFORM GENERATOR MAIN PARAMETERS, MODEL: OWG-NIR-35ZC	
Wavelength, nm	780, 830, 880, 910, 950, 980, 1060 (±15)
Peak output power, mW	35 nominal, 50max
Repetition rate, pps	Programmable, 0-50, CW
Divergence of output beam, FWHM, mrad	0.1 – 0.15
Boresight to mechanical interface, mrad	1
Boresight to camera (after calibration, max zoom), mrad	0.1
Clear Aperture diameter of output beam, mm	70
Eye safety class (EN-60825, IEC60825-1)	1M, Eye safe at all ranges for the unaided eye
Camera type	Sony color FCB-EX1020 TM
Picture elements	Approx. 380K pixels
Camera Horizontal resolution	550 TV lines
Camera Angle of view (H)	~ 57.8 degree (WIDE end) to ~ 1.7 degree (TELE end)
Camera clear aperture diameter, mm	40
Operation Voltage MIL 1275, EMI 461F	DC 24 Volts
Power consumption, W	<10
Communication, Controls, Interfaces, Protocols	RS422, Discretes, Lase Enable, Power adjustment, Lase timer, System BIT (Temperatures, Laser Current, Voltage)
Operational modes	CW, Strobe, Standby
Trigger	Internal, External, Software
Operating Temperature Range, °C	-12 to +55
Storage Temperature Range, °C	-40 to +71
Lifetime, Operational, hours	>1000
Calculated MTBF laser, hours	1000 operational, 40000 standby
Environmental sealing for	IP67
Cooling Interface	Passive Cooling
Weight, kg	~ 3.2
Dimensions, mm NTE	L250 x H90 x W160

Specifications in this document subject to change without notice.



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