



Long Range Infrared Receiver Assembly

The receiver is a fully self contained detector system featuring low-noise amplifier design. The receiver assembly was developed as a sub-component of a long range (10 km) eye safe Laser rangefinder operating at 1535 nm wavelength. The very robust receiver assembly has applications in:

- Range finding
- LIDAR
- Low light detection

EOS Optronics GmbH will work with you to customize the features to suit your application including:

- Clear aperture and optical design
- Detector – InGaAs PIN diode or APD
(TEC-controlled on request)
- Interface (electronic and mechanical)



Technical Specifications

Clear aperture:	72 mm
Wavelength:	Ar-coating at 1535 nm
Detector:	InGaAs APD (200 μm active area)
Field of view (FOV):	1.3 mrad
Optical bandwidth (half-width):	60 nm interference filter
Electrical bandwidth (-3 dB):	10 MHz
Noise equivalent power (NEP):	90 $\text{fW}/\sqrt{\text{Hz}}$
Output:	Analog signal (50 Ω impedance)
Dimensions:	\varnothing 90 mm x 190 mm
Weight:	2.3 kg
Voltage input:	12 V
Current consumption (typ.):	40 mA
Operating temperature:	-35 $^{\circ}\text{C}$ to +55 $^{\circ}\text{C}$

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