



■ FEATURES

The set includes a cylindrical package integrated with IR detector and preamplifier. The detecting head is connected with a cable to the power supply. The power supply is supplied from 100 to 240 VAC range. The detecting head is equipped with a mounting (M8x1) thread and a mounting post as an option.

■ SPECIFICATION

Detector PVM-10.6

Parameter	Units	Value	Conditions
Spectral Range	μm	2 to 12	
Response Time	nsec	≤ 1	
Detectivity	$\text{cm}\sqrt{\text{Hz}/\text{W}}$	$\geq 1 \cdot 10^7$	10.6 μm
Responsivity Width Product	V/W	≥ 0.03	10.6 μm
Area	mm^2	1 x 1	
Field of View	deg	90	

Preamplifier VPDC-10I

Parameter $T_a=22^\circ\text{C}$, $V_s= \pm 15\text{V}$	Units	Value	Conditions
Bandwidth	MHz	0 to 10	3 dB
Output Signal	V	0 to 2	
Transimpedance	V/A	$1 \cdot 10^4$	$R_L=1 \text{ M}\Omega$
Pre amplifier Input Noise	$\text{nV}/\sqrt{\text{Hz}}$	1	$f_0=100 \text{ kHz}$
Output Impedance	Ω	50	
Dimensions of Detecting Head	mm	$D=56$, $L_{\text{TOTAL}}=108$	
Mass of Detecting Head	g	210	
Dimensions of Power Supply PPS-02-15 (width x height x length)	mm	82 x 61 x 150	
Mounting Plate	mm	Dia=13.7, L=108	

Power Supply PPS-02-12

Parameter	Units	Value	Conditions
Supply Voltage	V AC	100 to 240 50 to 60 Hz	
Output Voltage	V DC	± 12	$T_a=22^\circ\text{C}$
Output Current	mA	± 50	$T_a=22^\circ\text{C}$

■ ABSOLUTE MAXIMUM RATINGS

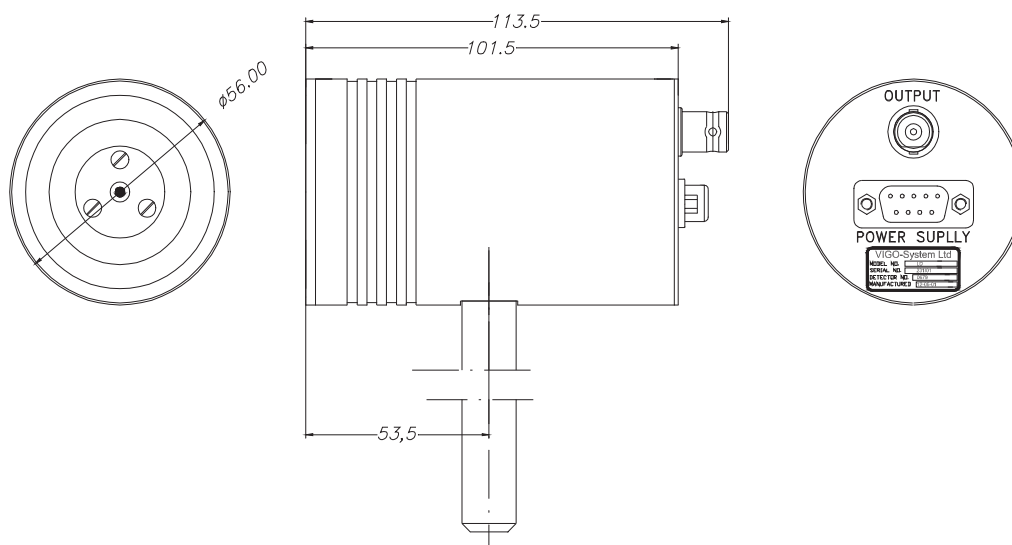
Parameter	Value
Maximum Continuous Optical Power	15 W/cm ²
Maximum Optical Power of Pulses Shorter Than 1µs	1 MW/cm ²
Storage temperature range	-40°C to +80°C
Operating temperature range	-20°C to +60°C

Stresses above those listed above may cause permanent damage to the device. This is a stress rating only, and functional operation of the device at these or any other conditions above those indicated in the operational section of this application is not implied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability.

■ ESD SUSCEPTIBILITY

ESD (electrostatic discharge) sensitive device. Electrostatic charges as high as 4000 volts, which readily accumulate on the human body and on test equipment, can discharge without detection. Permanent damage may occur on these devices if they are subjected to high energy electrostatic discharges. Therefore, proper ESD precautions are recommended to avoid any performance degradation or loss of functionality.

■ DIMENSIONS



The detector is followed by the high performance dedicated preamplifier specially designed to obtain the best performance from the VIGO System's detector. Each preamplifier is carefully optimized to work with particular type of detector. The preamplifier ensures stable work in all conditions and the highest signal to noise ratio of the whole system. Application of the completely new housings integrated with heatsink provides effective EMI shielding and is more convenient for the customer (easy fastening to other equipment).



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