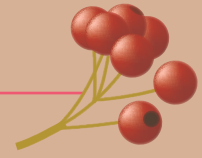


PHLUXi Pyracanth

Pyroelectric optical pulse detector PYD series



It is time to say goodbye to your strongly attached Bolometer.

Key Features

High repetition rate	Fast response up to 300 Hz
Room Temperature operation	No cooling, no maintenance required
Broadband	Applicable to the light wave from UV to THz
Low noise- High sensitivity	Measure pulses as weak as Bolometer

Specifications

Product number	PYD-I
Wavelength region	350 nm~300 um
Surface size	φ 1 mm
Frequency response	~300 Hz
Maximum pulse width	200 us
Rise time	350 us
Sensitivity ¹⁾	12 MV/J
Noise level ²⁾	<1 nJ (energy)
Power supply	DC 3~10 V
Connectors: Signal Out	BNC (High impedance)
Power In	SMA
Housing dimensions ³⁾	54 x 54 x 60 mm ³

1) for 1064 nm, 100 us pulse

2) for 1064 nm pulse, use battery as power supply

3) PYD-I-01 (with built-in lens)

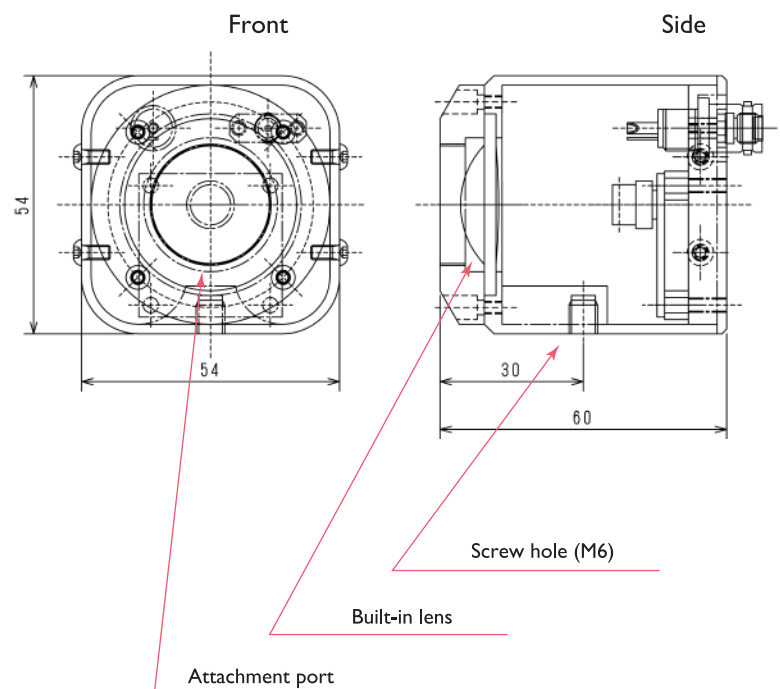
Attachments

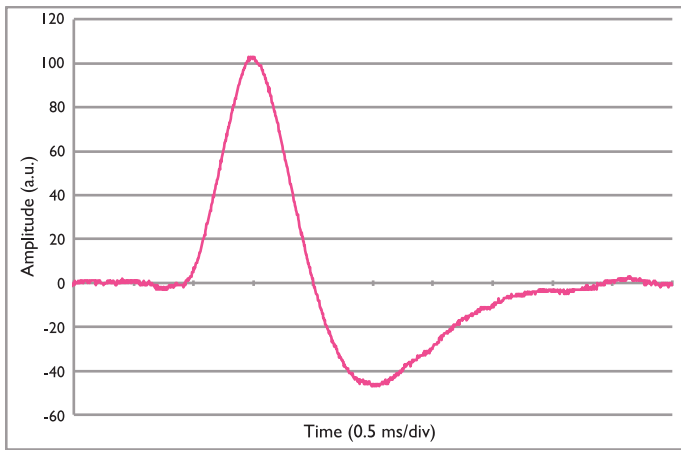
Filter (Tsurupica, Si, Ge, Polyethylene...),

Iris, Shutter, Extension tube etc. are available as option.

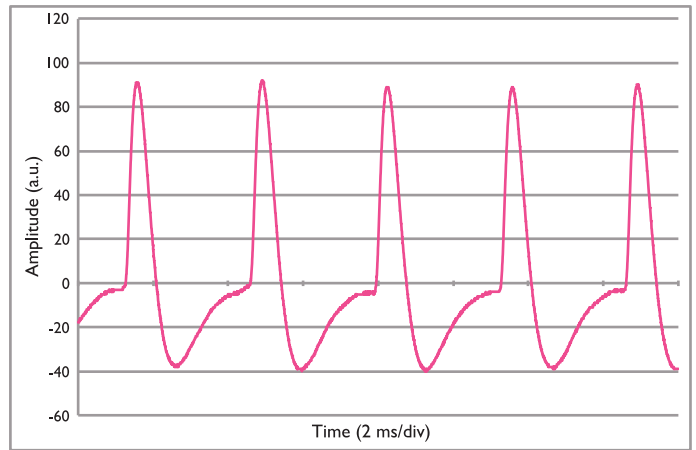
Preliminary

Outlook





Rep. rate 100 Hz



Rep. rate 300 Hz

Temporal pulse shape (V: Output voltage (x 40 V), H: Time)

Technical data

Parameters/condition

Incident light

Wavelength 1064nm

Rectangular

Energy 30~35 nJ/pulse

Detector

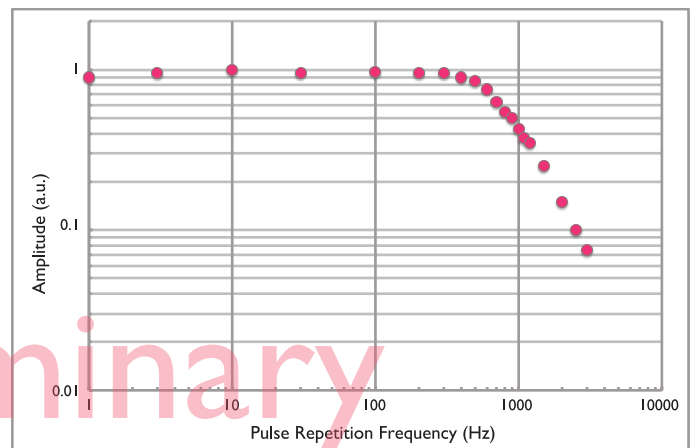
No window

No filter

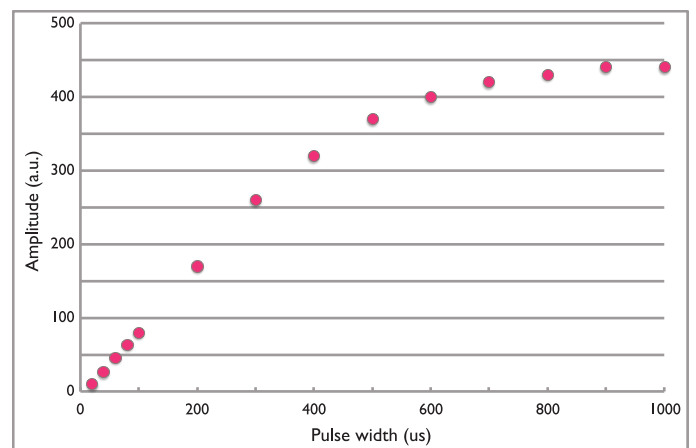
Other

Supply voltage DC 5V

Room temperature



Pulse rep rate -Peak output response (100 us)



Pulse width - Peak output response (100 us)



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