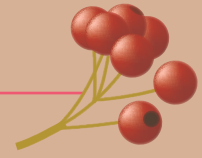


PHLUXi Pyracanth

Pyroelectric optical pulse detector PYD series



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

Key Features

High repetition rate
Room Temperature operation
Broadband
Low noise- High sensitivity

Fast response up to 300 Hz
No cooling, no maintenance required
Applicable to the light wave from UV to THz
Measure pulses as weak as Bolometer

Specifications

Product number	PYD-1 / PYD-2
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, monopolar*
Connectors: Signal Out	BNC (High impedance)
Power In	4 pins quick connector
Housing dimensions ³⁾	54 x 54 x 60 mm ³

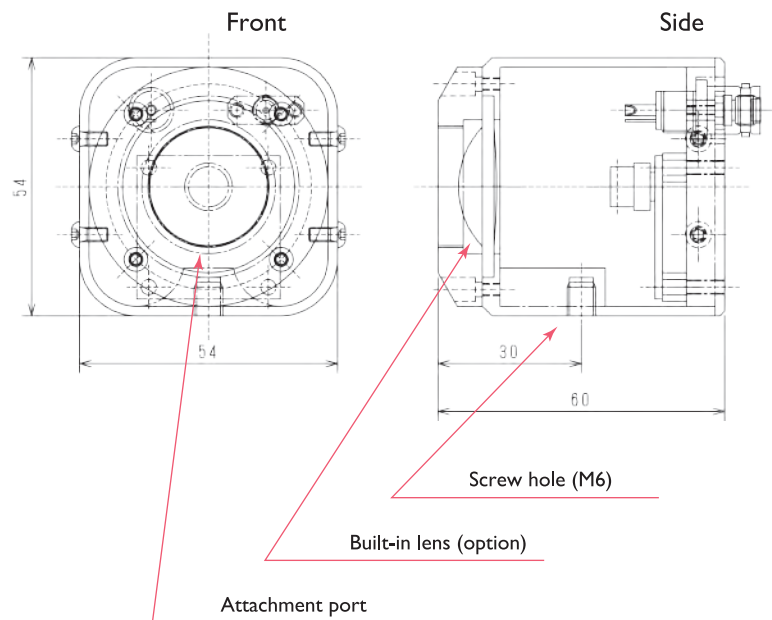
1) for 1064 nm, 100 us pulse

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

3) PYD-1-01 (with built-in lens)

* Bipolar type available soon.

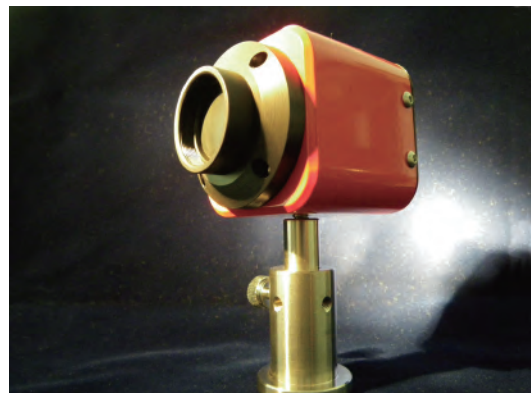
Outlook

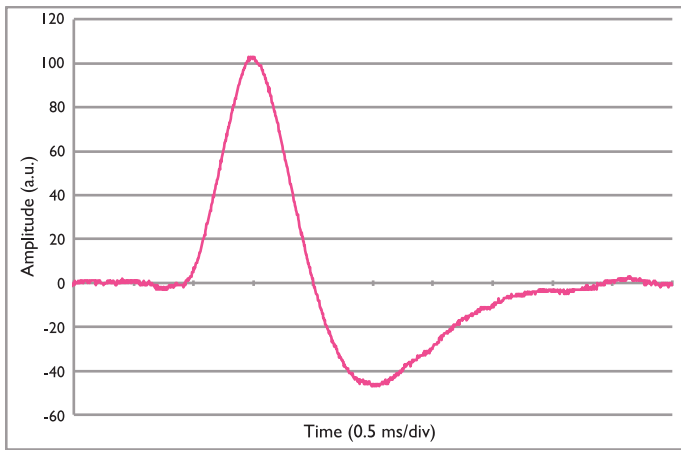


Attachments

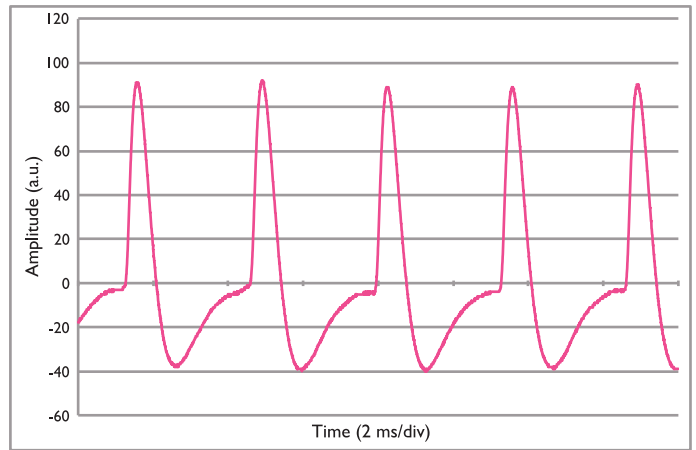
Lens, Filter (Tsurupica, High-resistivity Si, Ge, Polyethylene...),

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





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

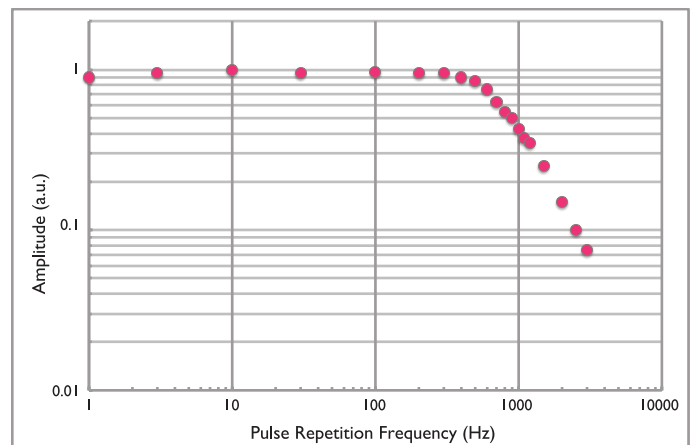
Wavelength 1064nm
 Rectangular
 Energy 30~35 nJ/pulse

Detector

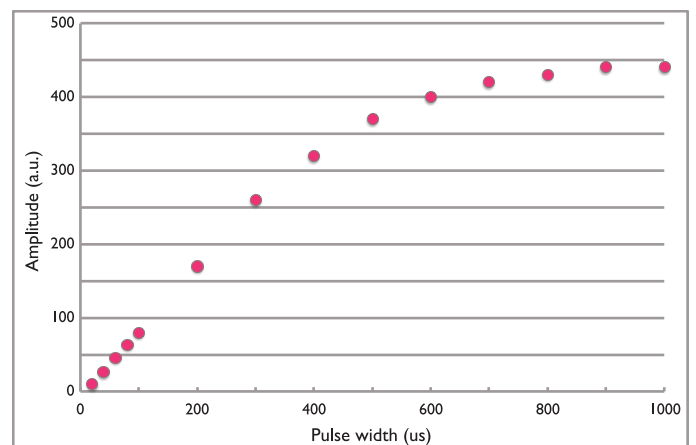
No window
 No filter

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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