

Detector Selection Guide



| SPECIFICATIONS | Damage Threshold [mW] | Spectral Range [nm] | Frequency Range [MHz] | 3 dB Bandwidth [MHz] | Rise Time [ns] | Max. Gain *** [V _{Peak-Peak} /W] | Dark State Noise Level [up to 5 MHz] [dBm/√Hz] | Dark State Noise Level [5 MHz- f _{-3dB}] [dBm/√Hz] | NEP [pW/√Hz] *** | Output Coupling | Output Signal |
|-----------------------------------|-----------------------|---------------------|-----------------------|----------------------|----------------|--|---|---|------------------|-----------------|----------------------|
| FS: free space, FC: fiber coupled | | | | | | | | | | | |
| APD210 | 10 | 400-1000 | 1-1600 | 5-1000 | 0.5 | 2.5 x 10 ⁵ | - | -80 | 0.3 | AC/50Ω | V _{pp} ~1 V |
| APD310 | 10 | 950-1650 | 1-1800 | 5-1000 | 0.5 | 2.5 x 10 ⁴ | - | -80 | 1.1 | AC/50Ω | V _{pp} ~1 V |
| FPD310-FC-VIS* | 2 | 400-1000 | 1-1500 | 5-1000 | 0.5 | 2 x 10 ⁴ | -100 | -130 | 25.5 | AC/50Ω | V _{pp} ~1 V |
| FPD310-FS-VIS | 2 | 400-1000 | 1-1500 | 5-1000 | 0.5 | 2 x 10 ⁴ | -100 | -130 | 24.0 | AC/50Ω | V _{pp} ~1 V |
| FPD310-FC-NIR** | 2 | 950-1650 | 1-1500 | 5-1000 | 0.5 | 2 x 10 ⁴ | -100 | -130 | 12.0 | AC/50Ω | V _{pp} ~1 V |
| FPD310-FS-NIR | 2 | 950-1650 | 1-1500 | 5-1000 | 0.5 | 2 x 10 ⁴ | -100 | -130 | 14.1 | AC/50Ω | V _{pp} ~1 V |
| FPD510-FC-VIS* | 3 | 400-1000 | DC-250 | DC-200 | 2 | 1.5 x 10 ⁵ | -110 | -135 | 6.4 | DC/50Ω | 0-1 V |
| FPD510-FS-VIS | 3 | 400-1000 | DC-250 | DC-200 | 2 | 1.5 x 10 ⁵ | -110 | -135 | 6.0 | DC/50Ω | 0-1 V |
| FPD510-FC-NIR** | 3 | 950-1650 | DC-250 | DC-200 | 2 | 1.5 x 10 ⁵ | -110 | -135 | 3.0 | DC/50Ω | 0-1 V |
| FPD510-FS-NIR | 3 | 950-1650 | DC-250 | DC-200 | 2 | 1.5 x 10 ⁵ | -110 | -135 | 3.2 | DC/50Ω | 0-1 V |
| FPD610-FC-VIS* | 3 | 400-1000 | DC-600 | DC-500 | 1 | 2 x 10 ⁶ | -80 | -100 | 11.9 | DC/50Ω | 0-1 V |
| FPD610-FS-VIS | 3 | 400-1000 | DC-600 | DC-500 | 1 | 2 x 10 ⁶ | -80 | -100 | 11.2 | DC/50Ω | 0-1 V |
| FPD610-FC-NIR** | 3 | 950-1650 | DC-600 | DC-500 | 1 | 2 x 10 ⁶ | -80 | -100 | 5.6 | DC/50Ω | 0-1 V |
| FPD610-FS-NIR | 3 | 950-1650 | DC-600 | DC-500 | 1 | 2 x 10 ⁶ | -80 | -100 | 6.6 | DC/50Ω | 0-1 V |

*FC/PC connector **SMF28 pigtail with FC/APC *** Calculated

For more detailed information and specifications, please refer to the respective product sheets available for download at our website.

ORDERING INFORMATION

| | | | | |
|-----------------------------|---------------|---------------|---------------|---------------|
| Product Code | APD210 | APD310 | | |
| Price | 1950 EUR | 2150 EUR | | |
| Product Code | FPD310-FS-VIS | FPD310-FC-VIS | FPD310-FS-NIR | FPD310-FC-NIR |
| Price for all models | 1650 EUR | | | |
| Product Code | FPD510-FS-VIS | FPD510-FC-VIS | FPD510-FS-NIR | FPD510-FC-NIR |
| Price for all models | 1650 EUR | | | |
| Product Code | FPD610-FS-VIS | FPD610-FC-VIS | FPD610-FS-NIR | FPD610-FC-NIR |
| Price for all models | 1650 EUR | | | |

Prices and specifications are subject to change without notice. Custom modifications are available, please inquire.



Menlo Systems GmbH
T+49 89 189 166 0
sales@menlosystems.com

Menlo Systems, Inc.
T+1 973 300 4490
ussales@menlosystems.com

Thorlabs, Inc.
T+1 973 579 7227
sales@thorlabs.com

