Menlo Systems has developed a series of detectors for lowest light level signals. From avalanche to PIN photodiodes you can find the detector that is best for your specific application. All devices are field tested in our Optical Frequency Comb Systems featuring Nobel Prize winning technology.

**SPECTRAL RESPONSE**

Spectral response characteristics of the photodiodes built into the various detector models; please note the different scaling of the APD210 data:

**AVALANCHE PHOTODETECTORS**

**APD210, APD310**

The Avalanche Photodetectors APD210 and APD310, for detection in the visible and near infrared range, respectively, offer a number of key features: adjustable gain, high signal-to-noise ratio and a temperature independent gain characteristic through electronic compensation of the bias voltage. The detectors are optimized for free space detection of optical pulses with a very low signal level in the wavelength range from 400 to 1000 nm and from 950 to 1650 nm. They exhibit an extremely flat frequency response over their 3 dB bandwidth.

**PIN PHOTODETECTORS**

**FPD310 SERIES**

The high sensitivity ultrafast PIN photodetector FPD310 product family is optimized for high gain, high bandwidths, extremely short rise times and high signal-to-noise ratio. These photodetectors are easy-to-use Si- or InGaAs-PIN photodiode packages with an integrated high-gain, low-noise RF amplifier. The gain can be switched between two fixed settings, which allows an optimal performance for the user’s application.

**FPD510 SERIES**

The high sensitivity ultrafast PIN photodetector FPD510 product family is optimized for highest signal-to-noise-ratio for detection of low level optical beat signals and pulse shape at frequencies up to 250 MHz. These photodetectors are easy-to-use Si- or InGaAs-PIN photodiode packages with an integrated high-gain, low-noise transimpedance amplifier.

**FPD610 SERIES**

The high sensitivity ultrafast PIN photodetector FPD610 product family combines broad bandwidth and high gain at frequencies up to 600 MHz. These photodetectors are easy-to-use Si- or InGaAs-PIN photodiode packages with an integrated high-gain, low-noise transimpedance amplifier.

**All models:**
Available for both visible and near infrared range, both with either free space or fiber coupled optical input. The compact design of these detectors allows for easy OEM integration. Included with each amplified photodetector is a low noise power supply, which features a universal AC input.
## Detector Selection Guide

### SPECIFICATIONS

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