

Welcome

Picometrix offers a complete line of fiber-optic, high-speed detectors and receivers, with many new models, including...

- **PX-D7:** fastest visible detector available, 7 ps, 60 GHz
- **D-8ir:** fastest 1310/1550 detector available, 8 ps, 50 GHz
- **DG-15xr:** fastest 750-1650 detector available, 20 GHz
- **AD-40APDir:** highest sensitivity receiver available, -27 dBm



Picometrix' suite of instrument optical receivers and detectors listed in the Product Summary are suitable for a wide variety of uses in the test and measurement of fast optical signals. The company has been a leading supplier of high-speed optical receivers since 1992. Our core optical receiver competencies include epitaxial growth, photodetector design and microfabrication, high-speed microwave packaging, hybrid circuit assembly and high-speed testing. Picometrix is dedicated to providing the highest performance and highest quality optical receivers and detectors available.

Both amplified (receiver) and unamplified (detector) models are available in compact, rugged, instrument-style cases. Each unit houses a sealed, fiber-coupled detector module together with internally regulated power, current monitor, power indicating LED's and a convenient power switch.

These products are specifically designed to fulfill a variety of photonics test and measurement applications including digital

telephone and data communications, analog microwave communications, as well as general high-speed research from 300 ps temporal resolution (1.5 GHz) to 7 ps (60 GHz). VIS-ir (400-1700 nm) products for broad measurement interests are available as well as a full range of IR (950-1650 nm), XR (700-1650 nm) and APD products optimized for communications applications.

The instruments are fiber-coupled, but can also be used for free-space applications, by simply using the open end of a fiber-optic patch cord as the point of light collection.

We offer a full suite of standard products and the ability to customize products for unique requirements.

We look forward to helping you solve your high-speed optical receiver and detector needs. For further ordering or product information, please contact us at:

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Product Summary



| Model | Wavelength nm | Bandwidth GHz | Sensitivity dBm | Responsivity A/W | Conversion Gain V/W | Fiber Diameter μm | Output Termination Ω | Output Connector |
|-------------------------|---------------|---------------|-----------------|------------------|---------------------|------------------------------|-----------------------------|------------------|
| VIS-ir Detectors | | | | | | | | |
| PX-D7 | 400-900 | 60 | n/a | 0.03 | 1 | 50 | 100 | Anritsu V |
| D-15 | 400-1700 | 15 | n/a | 0.2 | 10 | 50 | 50 | Anritsu K |
| D-30 | 400-1700 | 30 | n/a | 0.2 | 10 | 50 | 50 | Anritsu K |
| D-100 | 400-1700 | 4 | n/a | 0.2 | 10 | 50 | 50 | Anritsu K |
| VIS-ir Receivers | | | | | | | | |
| AD-200 | 400-1700 | 2.5 | n/a | n/a | 200 | 50 | 50 | SMA |
| AD-300 | 400-1700 | 1.5 | n/a | n/a | 200 | 50 | 50 | SMA |
| IR Detectors | | | | | | | | |
| D-8ir | 950-1650 | 50 | n/a | 0.7 | 17.5 | 9 | 50 | Anritsu V |
| D-15ir | 950-1650 | 30 | n/a | 0.6 | 30 | 9 | 1k | Anritsu K |
| DG-15ir | 950-1650 | n/a | n/a | 0.6 | 15 | 9 | 50 | Anritsu K |
| D-30ir | 950-1650 | 15 | n/a | 0.8 | 40 | 9 | 1k | Anritsu K |
| D-50ir | 950-1650 | 10 | n/a | 0.9 | 45 | 9 | 1k | Anritsu K |
| D-100ir | 950-1650 | 4 | n/a | 0.9 | 45 | 62.5 | 1k | Anritsu K |
| IR Receivers | | | | | | | | |
| AD-40ir | 950-1650 | 12 | -20 | n/a | 400 | 9 | 50 | SMA |
| AD-200ir | 950-1650 | 2.5 | -24 | n/a | 800 | 9 | 50 | SMA |
| XR Detectors | | | | | | | | |
| DG-15xr | 700-1650 | n/a | n/a | 0.8 | 12.5 | 62.5 | 50 | Anritsu K |
| D-25xr | 700-1650 | 20 | n/a | 0.8 | 25 | 62.4 | 1k | Anritsu K |
| D-70xr | 700-1650 | 6 | n/a | 0.8 | 25 | 62.5 | 1k | Anritsu K |
| XR Receivers | | | | | | | | |
| AD-40xr | 700-1650 | 12 | -19 | n/a | 400 | 62.5 | 50 | SMA |
| AD-50xr | 700-1650 | 10 | -19 | n/a | 450 | 62.5 | 50 | SMA |
| AD-200xr | 700-1650 | 2.5 | -23 | n/a | 800 | 62.5 | 50 | SMA |
| APD Receivers | | | | | | | | |
| AD-40APDir | 1200-1650 | 12 | -27 | n/a | 3500 | 9 | 50 | SMA |
| AD-50APDir | 1200-1650 | 10 | -29 | n/a | 3500 | 9 | 50 | SMA |