

PHOTODETECTORS



Dimension-Labs has newly launched a full range of detectors, which includes photodiodes, photodetector modules, single-photon detectors (counters), photomultiplier tubes (microchannel plates), and low-light image intensifiers. Among them, the photodetector modules come in various forms such as amplified, balanced, avalanche, and ultra-sensitive photodetectors. Boasting high gain, high sensitivity, high bandwidth, low noise, and a high common-mode rejection ratio, these products can meet the photoelectric conversion needs of various scientific research scenarios and provide more possibilities for optical measurement.

Amplified Detectors



To achieve low-noise readout and high-gain amplification of weak signals, and to restore optical signals with minimal distortion, Dimension-Labs has launched the DL-PDA series of amplified detector modules. The spectral response range covers the full spectrum from ultraviolet to infrared ($0.2 \mu\text{m} \sim 10.6 \mu\text{m}$). These modules have a built-in low-noise transimpedance amplifier (TIA) or a low-noise TIA followed by a voltage amplifier, enabling effective detection and amplification of weak optical signals with a maximum detectable bandwidth of 50 GHz and a minimum detectable power of -75 dBm. We offer versions with fixed gain and eight adjustable gain levels. The fixed-gain version features fixed bandwidth and total transimpedance gain, while the adjustable-gain version provides eight gain settings (0 ~ 70 dB with 10 dB steps). The entire module adopts an innovative USB (Type-C) power interface, and the 5V USB power supply makes it more convenient to use, making it suitable for industrial applications and scientific research in numerous fields.

►► Advantages

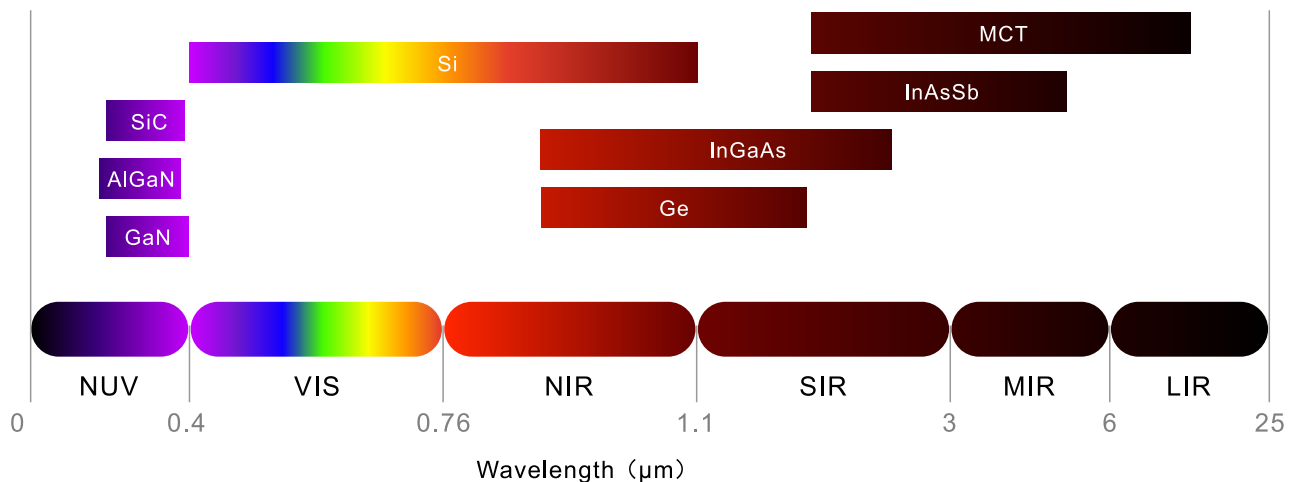
- Wavelength ranges from 200 nm to 12 μm (It depends on detector material, such as Si, Ge, InGaAs, MCT, etc.)
- High gain, high sensitivity (Minimum detectable power: -75 dBm)
- Adjustable gain with 8×10 dB steps (0 dB to 70 dB)
- Optional photosensitive area diameter (80 μm -10 mm)
- USB (Type-C) power interface/SMA data interface
- Flexible switching between spatial light and fiber optic light
- Flexible compatibility with various accessories such as rods, cage systems, and sleeves
- Exquisite and compact design, suitable for a wide range of applications

►► Product Applications

- High-speed optical pulse detection
- LiDAR (Light Detection and Ranging)
- Brillouin fiber optic sensing system
- Optical Coherence Tomography (OCT)
- Optical delay measurement
- THz & spectroscopy measurement

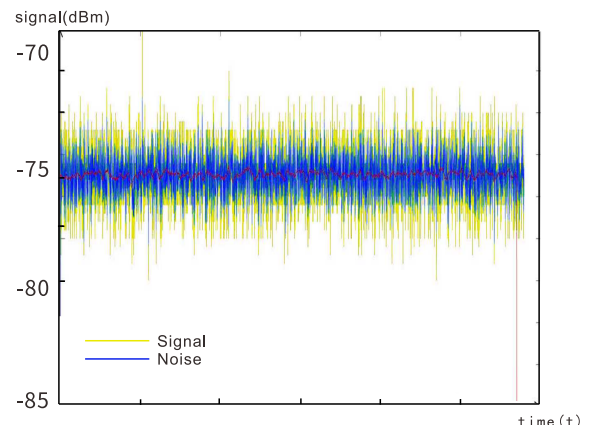
►► Wavelength ranges from 0.2 to 12μm, offering a wider range of options

The DL-PDA series detectors, meticulously developed by Dimension-Labs, offer spectral coverage spanning ultraviolet, visible, near-infrared, mid- and long-infrared regions. These detectors incorporate high-quality silicon (Si)-based photodiodes (PDs) specifically engineered for optical signal detection within the 200-1100nm wavelength range. Indium gallium arsenide (InGaAs) detectors effectively address detection needs from 800 to 1700nm, while extended-wavelength InGaAs variants cover 900nm-2600nm. Additionally, mercury cadmium telluride (MCT) detectors provide coverage from 2.6 to 10 μm, offering an extensive selection of detection solutions for numerous scientific research and industrial photoelectric conversion applications.



►► High sensitivity & high gain & low noise, matching multiple requirements

Dimension-Labs' exclusively developed DL-PDA series photodetectors are equipped with a built-in transimpedance amplifier (TIA) circuit featuring low noise and high gain, which can convert and amplify the photocurrent through the TIA with a gain range of 5×10^3 to 2.0×10^6 V/W. Even under such high gain conditions, it can restore optical signals with minimal distortion, significantly enhancing the detection capability for weak optical signals. The detection sensitivity can reach -75 dBm, and the noise of all gain levels is as low as 3.0 mV or below.



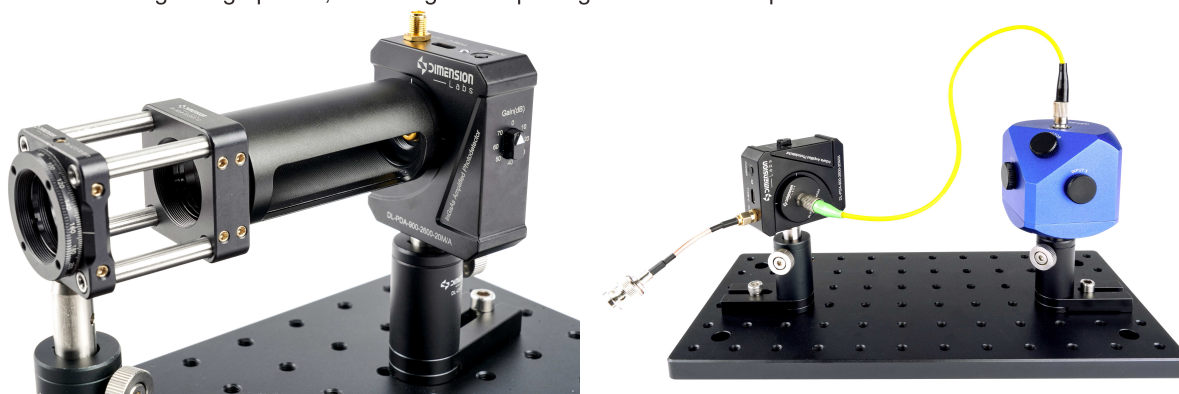
►► Multifunctional machine with flexible spatial/fiber optic light switching

Dimension-Labs has made innovative designs on the appearance of the DL-PDA series photodetectors. The housing of the free-space optical input port features SM1 external threads and SM05 internal threads, and includes a detachable SM1 internal thread adapter (adapter and retainer ring). To position the diode as close as possible to the cage plate and facilitate accurate detection by beam divergence devices, the threads of the detector interface can be directly mounted on the cage plate and are also compatible with cage systems. This enables it to be applicable not only to free-space light detection, but also to fiber optic light detection through the combination of fiber coupling flanges.



►► Flexible installation with multiple components for diverse scenarios

In terms of accessories, the DL-PDA series photodetectors can be paired with lens sleeves or cage plates of SM1/SM05 calibers, which are perfectly compatible with cage optical systems. Additionally, in the attenuation solution for high-power laser detection, they can be used with neutral density filters, featuring simple operation and easy installation. Moreover, they are also perfectly adapted to the interface of Dimension's integrating sphere, enabling fiber optic light users to complete.



►► Eight adjustable gain levels, maximizing adaptability to multi-level applications

With flexible usability as its core design concept, the adjustable-gain detector features multiple freely switchable gain levels, offering eight gain settings (0-70 dB with 10 dB steps). The multi-level adjustment ensures greater convenience in use, making it suitable for both industrial applications and scientific research across various fields. Customers can select appropriate gain and bandwidth based on their specific application scenarios, which maximizes the fulfillment of their application needs and significantly enhances practicality.



►► Compact and Exquisite Design, Versatile for Diverse Applications

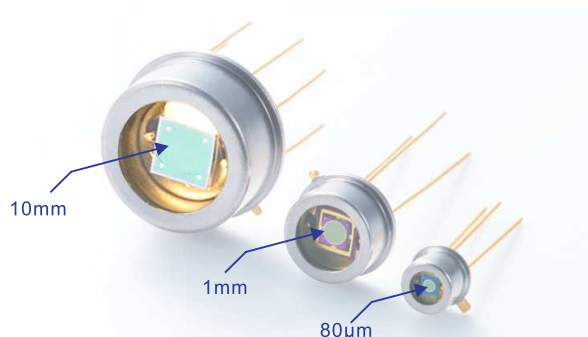
The housing dimensions of detector are merely 65 mm × 55 mm × 23 mm. This compact size enables the detector to be placed in most parts of optical systems. It addresses the issue of embedding detectors in small and complex systems as much as possible, thereby expanding the range of applicable scenarios.

The indicator light's on/off status and color indicate the detectors' operating state. When the power is connected and the switch is turned on, the LED indicator for normal startup will light up green. If the gain is too high, the LED will turn red; in this case, turn the knob to reduce the gain until the LED turns green, allowing the detector to work normally.



►► Multiple effective sensor area are available, ensuring high compatibility.

The DL-PDA series photodetectors from Dimension-Labs incorporate detection chips with various photosensitive area sizes, ranging from 80μm to 10mm in diameter. This high compatibility ensures maximum flexibility to meet diverse customer requirements. Additionally, we specialize in crafting photodetectors optimized for your application's requirements, offering custom photosensitive area geometries that ensure optimal performance.



►► More convenient USB power supply & SMA data interface

Dimension-Labs has revolutionarily introduced a USB power interface. The DL-PDA series photodetectors are powered via a USB Type-C power interface, and are equipped with a USB Type-C power cable and an SMA-to-BNC adapter cable. This allows users to conveniently power the device directly using a mobile phone charger and read signals on an oscilloscope, enhancing its universality for both research and industrial users.



Application Scenarios

The DL-PDA series of amplified photodetectors launched by Dimension-Labs boasts a complete product range, covering most scenarios requiring low-noise, high-gain restoration of weak signals, with wide applications across medical, military, and civil fields.

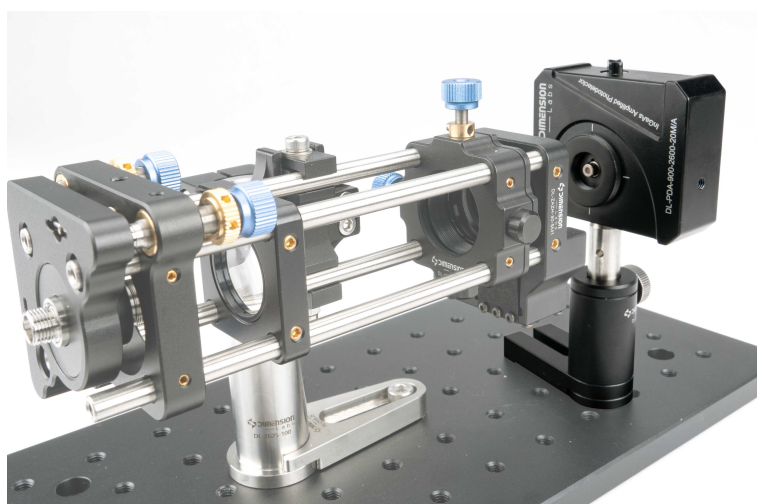
►► Measurement of high-repetition-rate laser pulse sequences

In LiDAR and laser pulse measurements, there is a need to measure laser pulse sequences. Continuous lasers generate pulsed lasers through modulation, or semiconductor laser diodes produce pulsed lasers through circuit RF coding. The detector receives the optical signal and converts it into an electrical signal. The high-bandwidth design of Dimension-Labs' PDA series detectors enhances the ability to measure the repetition frequency of corresponding pulsed lasers, enabling the acquisition of complete information about laser coding or modulation.



►► Photoelectric detection compatible with cage systems

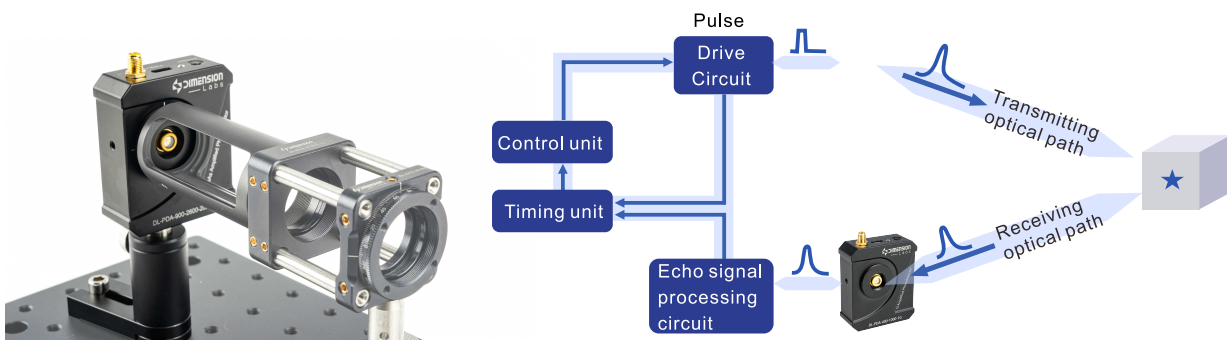
Cage optical systems offer advantages of high linearity and high parallelism. In precision optical measurements, common optical posts may make it difficult to maintain high coaxiality of optical components, leading to inaccurate measurement results. To address this issue, Dimension-Labs' DL-PDA series amplified photodetectors feature an SM1 external



thread design at the light inlet. When used with a lens sleeve, the detector can be embedded into the cage system, ensuring the coaxiality of the experiment and reducing the impact of angular deviation on measurements for users.

►► LiDAR echo signal detection

In application scenarios involving long-distance infrared imaging, due to the relatively long detection distance, the echo power is low. This requires the use of a high-gain amplification circuit to effectively respond to weak signals, as well as a telescope with a large-aperture objective lens to expand the photosensitive aperture. Dimension-Labs' PDA series, featuring high gain, low noise, and high bandwidth, can flexibly work with lens sleeves to transmit the light collected by the telescope to the photosensitive surface of the PDA detector. Through the amplification circuit, it makes the detection of echo signals easier.



►► Laser power monitoring

In scientific research and industrial projects, monitoring laser power is crucial for system performance and project development. Practical applications include experimental optical path system setup, judgment of laser coupling efficiency, component reflectance detection, and verification of silicon optical chip coupling systems. Dimension-Labs' self-developed high-performance photodetectors can effectively capture optical signals with their ultra-high sensitivity and resolution. They can quickly respond to detected laser wavelengths and convert them into electrical signals, enabling high-precision detection. Additionally, when used with an optical integrating sphere, they can effectively extend the upper limit of laser power detection, reduce research and development costs and improve the efficiency of project advancement.



►► Specifications

Amplified Detectors						
Product Diagram						
Item #	DL-PDA-400-1100-1M-A	DL-PDI-320-1000-10M-AE	DL-PDI-320-1000-200M-AE	DL-PDI-320-1000-500M-AE	DL-PDI-320-1000-1G-AE	DL-PDA-900-2600-30M-A
Detector Type	Si	Si	Si	Si	Si	InGaAs
Bandwidth(3 dB)	DC 1MHz	DC 10MHz	DC 200MHz	DC 500MHz	AC 100k-1GHz	DC 30MHz
Wavelength Range	400~1100 nm	320~1000 nm	320~1000 nm	320~1000 nm	320~1000 nm	900~2600 nm
Active Area	3.2×3.2 mm	Φ200 μm	Φ200 μm	Φ200 μm	Φ200 μm	Φ500 μm
Typical Maximum Responsivity @ Peak Wavelength	0.55 A/W@850nm	0.5 A/W@700nm	0.5 A/W@700nm	0.5 A/W@700nm	0.5 A/W@700nm	1.1 A/W@1550nm
Gain	2.1×10^6 V/W	1×10^5 V/W	0.7×10^4 V/W	2.5×10^3 V/W	0.8×10^3 V/W	1.2×10^6 V/W
Fixed or Switchable Gain	Switchable	Fixed	Fixed	Fixed	Fixed	Switchable
NEP(pw/√Hz)	5	50	20	36	50	5
Rise Time	350ns	30ns	1.5ns	0.6ns	0.35ns	12ns
Minimum Detectable Optical power	-63(0.5 nW)	-41(79 nW)	-36(251 nW)	-26(2.5 μW)	-26(2.5 μW)	-57(2 nW)
Saturated Optical Power (dBm)	8.2(6.6 mW)	-21.5(7 μW)	-2(640 μW)	2(1.6 mW)	3.8(2.4 mW)	9.5(9 mW)
Optical Inputs	FC / free space	FC				FC / free space
Output Connector	SMA	SMA				SMA
Output Impedance	50 Ω	50 Ω				50 Ω
Supply Voltage	5 V	DC±15 V				5 V
Storage Temperature	-25°C~60°C	-40°C~85°C				-25°C~60°C
Operating Temperature	10°C~40°C	-10°C~60°C				10°C~40°C
Device Dimensions	22×65×57mm	76×72.6×44mm				22×65×57mm

►► Specifications

Amplified Detectors						
Product Diagram						
Item #	DL-PDA-800-1700-30M-A	DL-PDI-850-1650-200M-AE	DL-PDI-850-1650-500M-AE	DL-PDI-850-1650-1G-AE	DL-PDAM-2T-8	DL-PDAM-4T-10
Detector Type	InGaAs	InGaAs	InGaAs	InGaAs	HgCdTe	HgCdTe
Bandwidth(3 dB)	DC 30MHz	DC 200MHz	DC 500MHz	AC 100k-1GHz	DC-1MHz	DC-1MHz
Wavelength Range	800~1700 nm	850~1650 nm	850~1650 nm	850~1650 nm	3~9.0 μm	3~12.0 μm
Active Area	Φ1mm	Φ75μm	Φ75μm	Φ75μm	1×1 mm	1×1 mm
Typical Maximum Responsivity @ Peak Wavelength	1.00 A/W@1550nm	0.9 A/W@1550nm	0.9 A/W@1550nm	0.9 A/W@1550nm	0.9 A/W@8μm	0.7 A/W@10.6μm
Gain	3.7×10^6 V/W	1.4×10^4 V/W	5×10^3 V/W	1.6×10^3 V/W	1.5×10^4 V/A	1.5×10^4 V/A
Fixed or Switchable Gain	Switchable	Fixed	Fixed	Fixed	Fixed	Fixed
NEP(pw/√Hz)	1.15	10	18	25	/	/
Rise Time	12ns	1.5ns	0.6ns	0.35ns	/	/
Minimum Detectable Optical power	-67(0.2 nW)	-39(125.8 nW)	-29(1.2 μW)	-29(1.2 μW)	/	/
Saturated Optical Power (dBm)	8.1(6.5mW)	-5(320μW)	-1(800 μW)	0.8(1.2 mW)	/	/
Optical Inputs	FC / free space	FC			free space	
Output Connector	SMA	SMA			SMA	
Output Impedance	50 Ω	50 Ω			50 Ω	
Supply Voltage	5 V	DC±15 V			DC+5V	
Storage Temperature	-25°C~60°C	-40°C~85°C			-25°C~70°C	
Operating Temperature	10°C~40°C	-10°C~60°C			10°C~40°C	
Device Dimensions	22×65×57mm	76×72.6×44mm			60×60×66.98mm	

Note:a. This table shows only selected models. For more details, check the official website or contact technical support.

b. All listed products are standard models. For custom needs, contact technical support for tailored service.

c. The data in the table are current reference parameters. If there are subsequent adjustments, the latest information shall prevail, and no further notice will be given. We appreciate your understanding.

Balanced Detectors



Dimension-Labs has launched the DL-PDB series of balanced detectors, which internally adopt two highly matched PIN photodiodes and low-noise high-speed transimpedance amplifiers (TIA). This design can eliminate the influence of common-mode noise and inherent frequency signals, achieving the effect of small-signal extraction. In consideration of the diversity of detector packaging integration methods and application scenarios, two input modes—optical fiber and spatial light—have been elaborately designed. The DL-PDB series covers a wavelength range of 190~1700 nm and a bandwidth from 1 MHz to 1 GHz. It includes two high-speed output monitors (Monitor+ and Monitor-), which respectively monitor the optical input signals of each photodiode. This series of products offers a version with adjustable transimpedance gain. By using the gain-adjustable knob, 4-level gain adjustment from 0 to 30 dB (with 10 dB steps) can be realized. Meanwhile, it adopts a USB (Type-C) power supply design, ensuring convenient use. The product can be widely applied in fields such as spectroscopy, heterodyne detection, optical coherence tomography (OCT), optical delay measurement, and terahertz detection.

►► Advantages

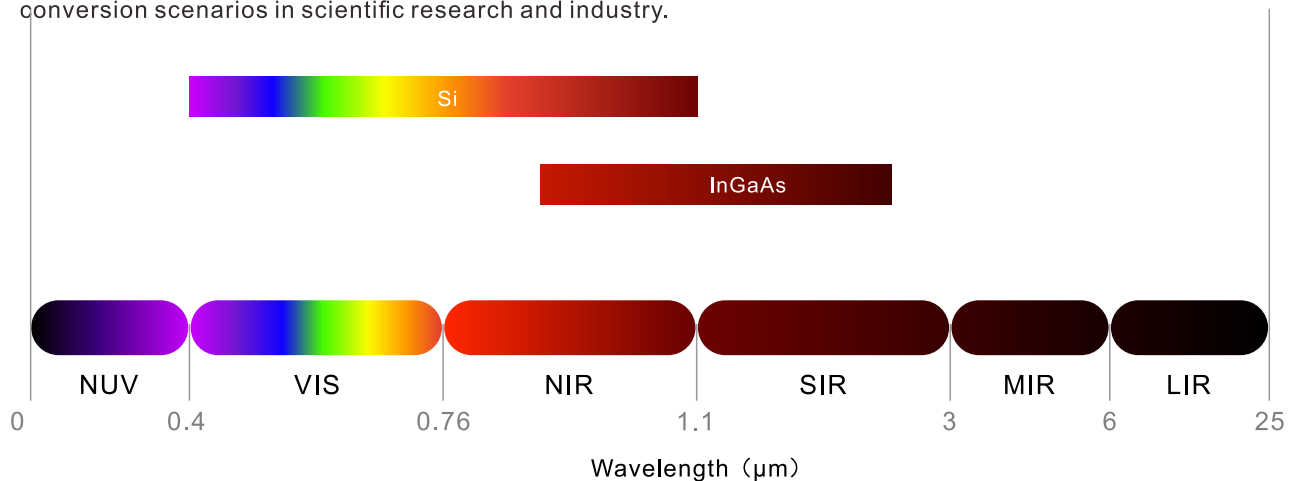
- Wavelength ranges from 190 nm to 1700 nm
- High common-mode rejection ratio (CMRR)
- High Gain (10^4 V/W), high bandwidth (1 MHz to 1 GHz)
- Free-space/fiber optic inputs: flexible installation with versatile accessories
- Switchable gain
- Compact & robust design: ideal for diverse applications
- Active diameter: 80 μ m – 10 mm
- USB (Type-C) power and SMA outputs

▶▶ Product Applications

- ▶ Heterodyne detection
- ▶ Optical coherence tomography
- ▶ Doppler LiDAR
- ▶ Medical probe imaging

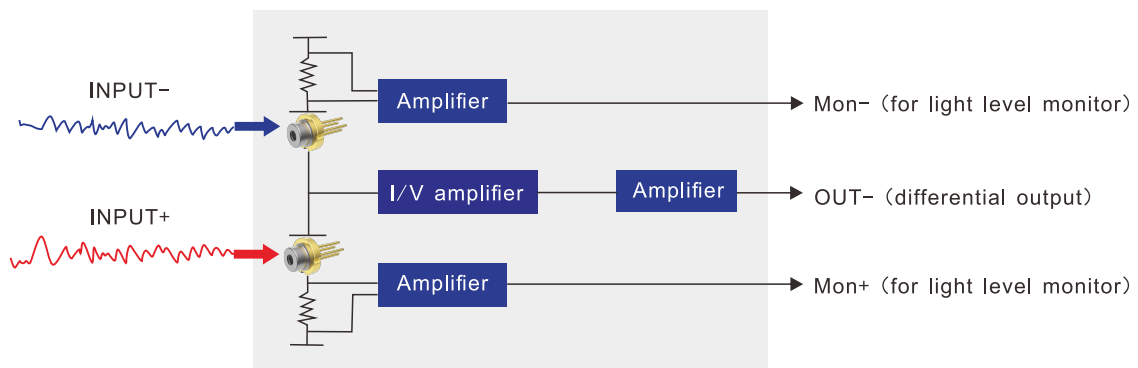
▶▶ Wavelength coverage: 190–1700 nm

The DL-PDB series balanced detectors cover the ultraviolet, visible, and near-infrared spectral ranges. The detectors use high-quality silicon (Si) photodiodes (PDs) to cover optical signals in the wavelength range from 320 to 1100 nm, and photodiodes made of conventional indium gallium arsenide (InGaAs) materials to cover optical signals in the 800-1700 nm wavelength range. This meets the diverse detection needs of different applications and provides a wider range of detection options for numerous photoelectric conversion scenarios in scientific research and industry.



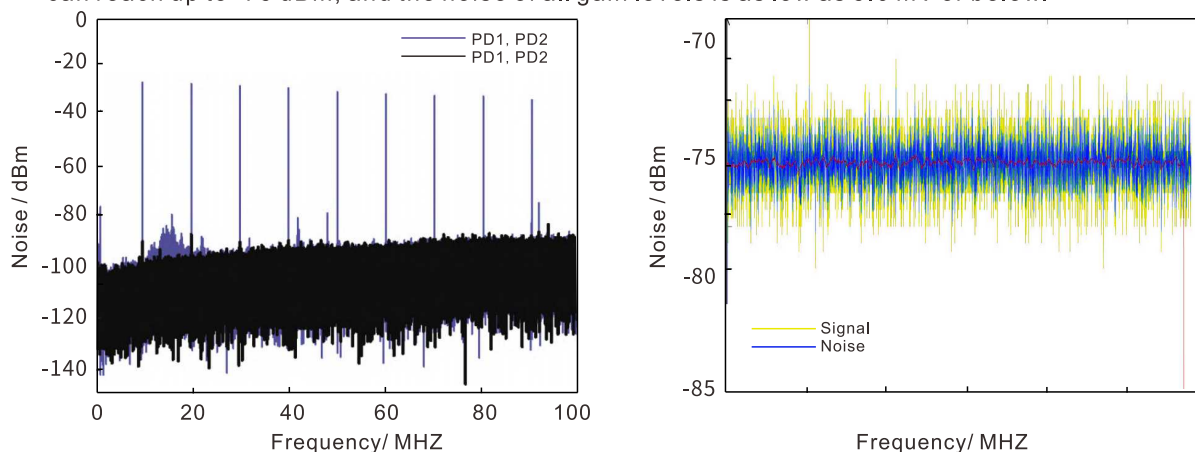
▶▶ A pair of highly matched PDs improves Common-Mode Rejection Ratio

The Dimension-Labs balanced photodetector PDB eliminates common-mode noise by amplifying and then differentially processing two input optical signals. Each detector utilizes two well-matched Si or InGaAs photodiodes and an ultra-low noise transimpedance amplifier, combined with a differential circuit. This configuration cancels out non-uniformities and differences in light source intensity and photodiode performance, thereby enhancing the detector's sensitivity and anti-interference capabilities. It achieves a Common-Mode Rejection Ratio (CMRR) of Min >25dB (Max <35dB).



►► High gain, high bandwidth, and low noise

The DL-PDB series balanced detectors developed by Dimension-Labs are equipped with built-in low-noise and high-gain transimpedance amplifier circuits (TIA), which can convert and amplify the photocurrent through TIA with a gain range of 1×10^3 to 1.75×10^6 V/W. Various models cover a bandwidth range of 1 MHz to 1 GHz, and can restore optical signals with minimal distortion under high-gain conditions, greatly enhancing the detection capability for weak optical signals. The detection sensitivity can reach up to -75 dBm, and the noise of all gain levels is as low as 5.0 mV or below.



►► Flexible installation with fiber optic/free-space optical combination accessories

Dimension-Labs presents both fiber-optic input models and versatile models supporting seamless switching between free-space and fiber-optic inputs, tailored to diverse application scenarios. The fiber-optic balanced detectors feature two fiber input ports (Input+ and Input-), enabling direct connection to various fiber interfaces such as PC/APC for transmitting optical signals. Three SMA outputs provide common-mode signals and two monitor channels (Monitor+ and Monitor-) for real-time signal monitoring.



The free-space optical balanced detector is equipped with two spatially symmetric detectors on its front panel, aligned along the central axis. The outer part features SM1 external threads and SM05 internal threads, which can be combined with fiber flanges via these threads to switch to fiber input. Additionally, for high-power laser detection scenarios requiring attenuation, it can be used with neutral density filters, ensuring simple operation and easy installation.

Dimension-Labs has designed the spacing between the free-space optical balanced detectors to be 50 mm, which exactly matches the hole pitch of standard optical platforms. This thoughtful design simplifies beam alignment during free-space optical path adjustments, significantly enhancing the efficiency of optical path tuning in experimental setups



►► 4-stage switchable gain configuration



The adjustable-gain balanced detectors are designed with flexibility in mind, offering multiple selectable gain settings for versatile applications. Within the amplified signal range, four adjustable gain levels (0–30 dB, 10 dB steps) are provided while maintaining optimal common-mode rejection ratio (CMRR) performance. This multi-level adjustment simplifies operation and suits both industrial and scientific research applications across various fields. Users can tailor the gain and bandwidth to their specific scenarios, maximizing utility and significantly enhancing practicality.

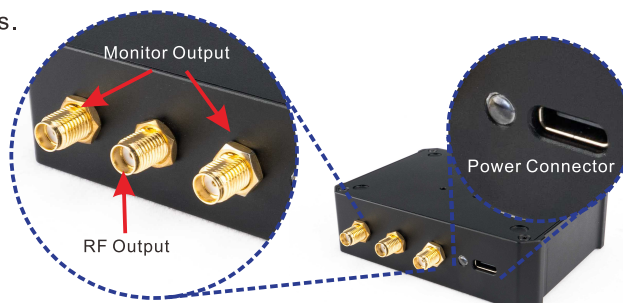
►► Compact and exquisite in appearance, suitable for a wide range of scenarios

The detector's housing measures just 80 × 65 × 20 mm, enabling it to be integrated into most locations within optical systems. This compact design addresses the challenge of embedding detectors in small, complex systems, thereby expanding its applicability across diverse scenarios. The indicator lights on the DL-PDB series detectors use illumination and color changes to signify operational status: When connected via Type-C, the green LED indicates power-on and normal startup.



►► More convenient USB Type-C power input and SMA signal output

In contrast to other manufacturers' amplified detectors that require separate DC power supplies, Dimension-Labs has revolutionized the industry by introducing a USB power interface. The DL-PDB series balanced photodetectors operate on 5 V via a USB Type-C power input, and each unit comes pre-configured with a USB Type-C power cable and SMA-to-BNC adapter cables. This allows direct powering from common smartphone chargers, while the three SMA outputs enable easy access to common-mode signals and individual PD monitoring signals via oscilloscopes, enhancing usability for both researchers and industrial users.



►► Specifications

Balanced Detector					
Product Diagram					
Item #	DL-PDB-400-1100-1M-A	DL-BPDI-320-1000-80M-E	DL-BPDI-320-1000-200M-E	DL-BPDI-300-1100-350M-E	DL-PDB-800-1700-5M-A
Detector Type	Si	Si	Si	Si	InGaAs
Bandwidth(3 dB)	DC 1MHz	DC 80MHz	DC 200MHz	DC 350MHz	DC 5MHz
Wavelength Range	400~1100 nm	320~1000 nm	320~1000 nm	300~1100 nm	800~1700 nm
Diameter of Active Detector Area	3.2 mm	75 μ m	75 μ m	75 μ m	2 mm
Typical Maximum Responsivity @ Peak Wavelength	0.52 A/W@850nm	0.5 A/W@700nm	0.5 A/W@700nm	0.5 A/W@850nm	0.9 A/W@1550nm
Saturated Optical Power (dBm)	9.0 (8 mW)	-9(0.13 mW)	-2(0.63 mW)	-8(0.16 mW)	5.7(3.75 mW)
Conversion Gain	6.2×10^5 V/W	8×10^4 V/W	0.6×10^4 V/W	0.5×10^4 V/W	1.2×10^6 V/W
Fixed or Switchable Gain	Switchable	Fixed	Fixed	Fixed	Switchable
CMRR(dB)	35 (typ.)	20(min.)	20(min.)	20(min.)	30 (min.)
NEP(pw/ $\sqrt$ Hz)	50	7.6	14	22	40
Rise Time	350 ns	4ns	1.5ns	0.9ns	70ns
Optical Inputs	FC / free space	FC			FC / free space
Output Connector	SMA	SMA			SMA
RF OUT Coupling	DC	AC (DC coupling available upon request)			DC
Output Impedance	50 Ω	50 Ω			50 Ω
Supply Voltage	5V	DC $\pm$ 12V			5V
Storage Temperature	-25 $^{\circ}$ C~60 $^{\circ}$ C	-40 $^{\circ}$ C~85 $^{\circ}$ C			-25 $^{\circ}$ C~60 $^{\circ}$ C
Operating Temperature	10 $^{\circ}$ C~40 $^{\circ}$ C	-10 $^{\circ}$ C~60 $^{\circ}$ C			10 $^{\circ}$ C~40 $^{\circ}$ C
Device Dimensions	22 $\times$ 65 $\times$ 90 mm	78.5 $\times$ 71 $\times$ 25.7 mm			22 $\times$ 65 $\times$ 90 mm

►► Specifications

Balanced Detector					
Product Diagram					
Item #	DL-BPDI-850-1650-80M-E	DL-BPDI-850-1650-200M-E	DL-BPDI-800-1700-350M-E	DL-BPDI-1200-1700-1.6G	DL-BPDI-1200-1700-1.6G
Detector Type	InGaAs	InGaAs	InGaAs	InGaAs	InGaAs
Bandwidth(3 dB)	DC 80MHz	DC 200MHz	DC 350MHz	AC 500k-1.6GHz	AC 500k-1.6GHz
Wavelength Range	850~1650 nm	850~1650 nm	800~1700 nm	1200~1700 nm	900~1400 nm
Diameter of Active Detector Area	75 μm	75 μm	75 μm	75 μm	75μm
Typical Maximum Responsivity @ Peak Wavelength	0.9 A/W@1550nm	0.9 A/W@1550nm	0.9 A/W@1550nm	0.9 A/W@1550nm	0.7A/W@1064 nm
Saturated Optical Power (dBm)	-12(0.06 mW)	-5(0.32 mW)	-5(0.32 mW)	-9.7dB(0.8 mW)	0 (1 mW)
Conversion Gain	4×10 ⁴ V/W	1.1×10 ⁴ V/W	1.1×10 ⁴ V/W	1.6×10 ⁴ V/W	1.1×10 ⁴ V/W
Fixed or Switchable Gain	Fixed	Fixed	Fixed	Fixed	Fixed
CMRR(dB)	20(min.)	20(min.)	20 (min.)	30(typ.)	30(typ.)
NEP(pw/√Hz)	3.8	7	16	10	10
Rise Time	4ns	1.5ns	0.9ns	0.2ns	0.2ns
Optical Inputs	FC				
Output Connector	SMA				
RF OUT Coupling	AC (DC coupling available upon request)			AC	
Output Impedance	50Ω				
Supply Voltage	DC±12V				
Storage Temperature	-40°C~85°C				
Operating Temperature	-10°C~60°C				
Device Dimensions	78.5×71×25.7 mm				

Note:a. This table shows only selected models. For more details, check the official website or contact technical support.

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Product specifications and descriptions in this document
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