PA500 series polarimeter



Polarization Analysis

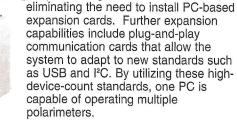
- Capable of stand-alone and PC-based operation.
- Communication via standard PC RS-232 port.
- Front panel LCD display and keypad provide access to powerful console features.

Features

All data acquisition, signal processing, and communication electronics are included in console.

Thorlabs Inc., introduces the PA500-series of Polarization Analyzers ("polarimeters") to its existing line of opto-electronic instrumentation. With precision electronics, PC independent control module, Windows95/98/ME/NT/2000/ XP compatible software, and LabVIEW™ support, the PA500-series full polarimeters are the right tools for accurately measuring both fully and partially polarized light from free-space and fiber connectorized input.

for data acquisition, signal processing, and communications, eliminating the need to install PC-base expansion cards. Further expansion



With a full-featured front panel keypad and backlit LCD display, the console is capable of acting as a stand-alone, real-time polarimeter. For greater flexibility and more powerful features, included PC software can acquire data directly from the console for further analysis. The easy-to-use, real-time graphical interface makes operation simple, right out of the box. Powerful graphical displays including the Poincaré Sphere, Polarization Ellipse, Voltage Oscilloscope¹, and Numerical Data windows provide all information essential to full polarimetric characterization. The fully configurable display windows allow the user to customize screens for additional flexibility. Four standard models offer complete coverage over the wavelength range of 450nm to 1600nm with an accuracy of ±1.0%.

The external console contains all electronic hardware required

¹ Displays raw data voltages, auxiliary voltages, thermal signal and/or un-normalized power(S₀)

PC Software Features

- Real-time graphic displays include Poincaré Sphere, Polarization Ellipse, Oscilloscope, and Numerical Data windows.
- Numerical Data pop-up windows include raw voltages, normalized Stokes parameters, DOP DOLP, DOCP ellipticity & azimuth angle.
- Simple 3-step calibration procedure allows storage & recall of multiple calibrations for unique wavelengths and optical head characteristics.
- Storage of long-term test data is simple with Data Logging procedures.
- Poincaré Sphere rotation and zoom.
- Full LabVIEW™ & LabWindows™/CVI™ support drivers included. Compatible with Windows95®/98/ ME/NT/2000/XP.

Polarimeter PMD/PDL

Laser/TEC Controllers

Laser Mounts

WDM Sources & Switches

Optical Sources & Switches

Detectors & Power Meters

Laser Lab Instruments

TXP Systems Measurement & Control

System Requirements

Windows 95/98/ME / NT/2000/XP

PC with Pentium II/AMD class processor

32MB minimum recommended RAM

6MB of free hard drive space

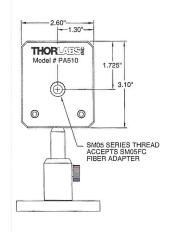
CD-ROM drive

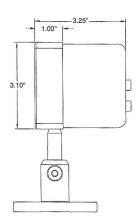
COM Port (RS-232)

Mouse or compatible pointing device

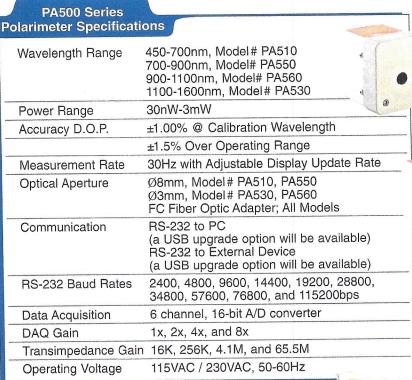
800 x 600 minimum display resolution

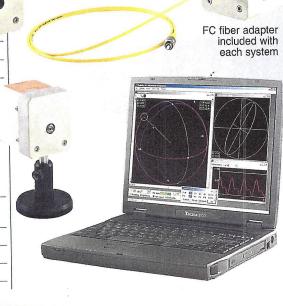
256 color minimum





Sales: 973-579-7227

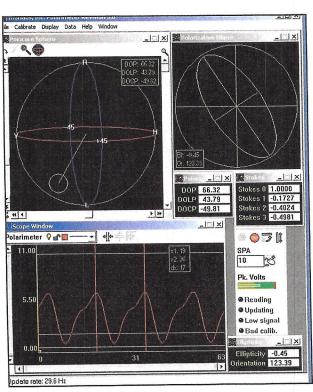




Fiber Input

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Free-Space Input



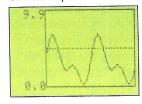
Polarization Measurements

L	\$1: \$2: \$3:	-0.49 -0.69	90
D D	DOP: OLP: OCP:	99.1	NNN

Multiple Calibrations



Oscilloscope



Polarization Ellipse



Switches Detectors & Power Meters

PMD/PDL

Laser/TEC

Controllers

Laser Mounts WDM Sources & Switches Optical Sources &

Laser Lab

TXP Systems Measurement & Control

Sample PC interface screens

ITEM#	\$	£	€	¥	DESCRIPTION
PA510	\$6.200.00	£5.642.00	€6.820,00	¥1,054,000	450-700nm Polarimeter, 100/120VAC
PA510-EC	\$6,250.00	£5,687.50	€6.875.00	¥1,062,500	450-700nm Polarimeter, 230VAC
PA550	\$8,500.00	£7,735.00	€9.350,00	¥1,445,000	700-900nm Polarimeter, 100/120VAC
PA550-EC	\$8,550.00	£7,780.50	€9.405.00	¥1.453.500	700-900 Polarimeter, 230VAC
PA550-EC	\$6,700.00	£6.097.00	€7.370.00	¥1,139,000	900-1100nm Polarimeter, 100/120VAC
PA560-EC	\$6,750.00	£6.142.50	€7.425.00	¥1,147,500	900-1100nm Polarimeter, 230VAC
PA530	\$6,400.00	£5,824.00	€7.040,00	¥1.088.000	1100-1600nm Polarimeter, 100/120VAC
PA530-EC	\$6,450.00	£5.869.50	€7.095,00	¥1,096,500	1100-1600nm Polarimeter, 230VAC

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