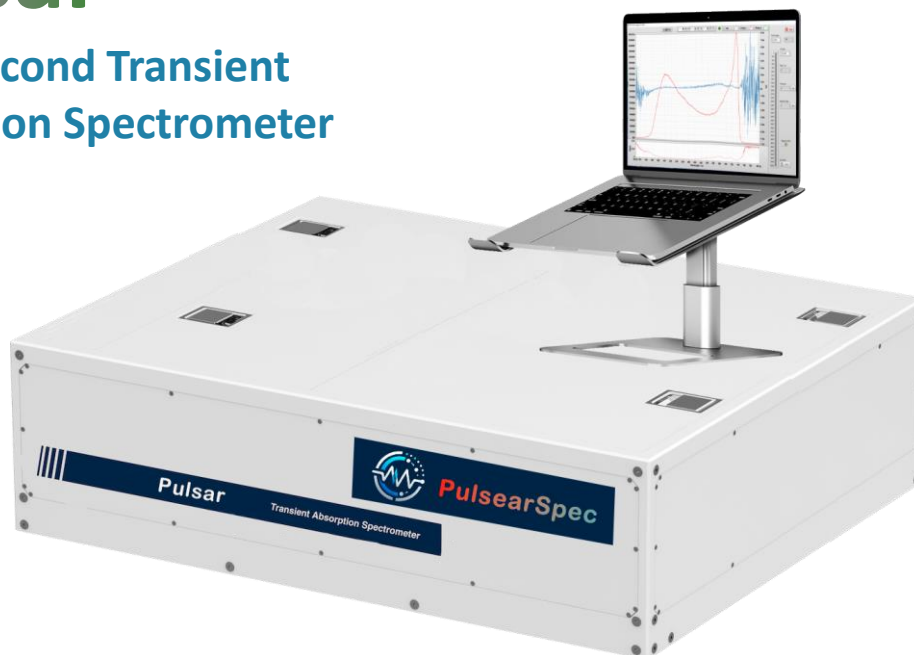


Pulsar

Femtosecond Transient Absorption Spectrometer



Main Technical Indicators	Description
Detection Mode	Switchable transmission or reflection mode
High-Speed Spectrometer	Visible/NIR spectrometer with up to 4KHz acquisition rate, capable of full-spectrum acquisition in one go without the need to rotate the grating
White Light Spectral Range	330nm to 1600nm
Intelligent Optical Delay Line	Maximum speed of 400mm/s, precision of 0.1 microns with automatic calibration for delay line back-reflection path
Detection Time Window	6/12 ns (expandable to ms)
Instrument Time Response Function (IRF)	Regular mode 1.5 times the laser pulse width
Pre-zero Signal-to-Noise Ratio	$\leq 0.1\text{mOD}$
Data Acquisition Software	Real-time observation of data collection and spectral dynamic changes, data point averaging, multi-curve dynamic comparison, chirp correction, zero-time correction functions, single exponential or multi-exponential power index global fitting, and other modes of data fitting programs
Expansion Functions	Expandable to micro-area detection module, ultra-fast fluorescence module, transient absorption imaging module, mid-infrared detection module, nanosecond detection module, third beam excitation light, and TCSPC fluorescence lifetime module



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