



Artisan Scientific

QUALITY INSTRUMENTATION ... GUARANTEED

Looking for more information?

Visit us on the web at <http://www.artisan-scientific.com> for more information:

- Price Quotations
- Drivers
- Technical Specifications, Manuals and Documentation

Artisan Scientific is Your Source for Quality New and Certified-Used/Pre-owned Equipment

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- Hundreds of Manufacturers Supported
- Fast Shipping and Delivery
- Leasing / Monthly Rentals
- Equipment Demos
- Consignment

Service Center Repairs

Experienced Engineers and Technicians on staff in our State-of-the-art Full-Service In-House Service Center Facility

InstraView™ Remote Inspection

Remotely inspect equipment before purchasing with our Innovative InstraView™ website at <http://www.instraview.com>

We buy used equipment! We also offer credit for Buy-Backs and Trade-Ins

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Talk to a live person: 888-88-SOURCE (888-887-6872) | Contact us by email: sales@artisan-scientific.com | Visit our website: <http://www.artisan-scientific.com>

PC1™ Specifications

Measurements (Steady-State Fluorescence)

- Corrected excitation and emission spectra
- Excitation-emission matrices
- [Polarization](#) (anisotropy) measurements
- Millisecond kinetics in photon counting mode
- Dual-wavelength-ratiometric excitation or emission measurements

Light Sources

- 300 W high-pressure [xenon arc lamp](#), 45 mW/nm brightness at 275 nm
- Lamp power supply: controllable in current, with time meter

Optional Sources

- [Laser diodes](#)
- [Light emitting diodes \(LEDs\)](#)
- Continuous wave lasers (argon-ion, krypton-ion, helium-cadmium, etc.)

Monochromators

- Single concave holographic grating

Wavelength range: from 200 nm to 1200 nm (dependent on selected grating)

Wavelength accuracy: ± 0.2 nm

Wavelength reproducibility: ± 0.25 nm

Slew rate: 160 nm/s

- Optional: double grating

Lenses

- UV-grade fused silica lenses

Polarizers

- UV-grade Glan-Thompson, 10x10 mm, L/A=2.0
- UV-grade Glan-Thompson, 14x14 mm, L/A=2.0
- UV-grade Glan-Taylor, 10x10 mm, L/A=2.0 (for high power lasers)

Optical Design and Collection Geometry

- Parallel beam design for precise polarization measurements
- T-format for simultaneous acquisition on 2 emission channels

Detectors

- Selected side-on photomultiplier tubes in room-temperature or cooled housing
- Optional: CCD camera
- Emission channels PMTs: Model R928P by Hamamatsu

- Reference detector PMT: Model R928 by Hamamatsu
- PMT wavelength range: 240-900 nm

Detection Modes

- Photon counting electronics, 10 KHz, on 3 independent channels
- Optional: Analog Output

Pre-Amplifier Discriminators

- 80 MHz bandwidth, TTL output

Dynamic Range

- Linear up to 4 million counts/second

Sensitivity

- 800 fM of fluorescein (with cooled PMT housing)

Signal-to-Noise Ratio

- 2000:1 (room temperature PMT housing)
- 6000:1 (cooled PMT housing)

Automation

- Control of 4 shutters
- Up to 3 monochromators
- 3 polarizers
- Sample holder rotation
- Stirrers
- Filterwheel

Instrument Interface to RS232 Devices

- Titrators
- Stopped-flow apparatus
- Peltier sample compartment
- Flow-through temperature bath

Computer and Operating System

- Intel-type CPU, Windows XP operating system

Power Requirements

- Universal power input: 110-240 V, 50/60 Hz, 400 VAC

Dimensions

- 885 mm (L) x 600 mm (W) x 330 mm (H)

- With lamp: 885 mm (L) x 835 mm (W) x 330 mm (H)

Weight

- 40 kg



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