

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
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We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

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Find the *ISS PC1* at our website: ***Click HERE***

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

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- 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

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

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