

OL 730CV

Virtual Radiometer/ Photometer PC-Controlled Virtual Instrument



The OL 730CV Virtual Radiometer/Photometer sets a new standard in economically priced research-grade light measurement instrumentation, without sacrificing performance, sensitivity, accuracy or versatility.

Value Packed Innovation

We took the most customer-utilized applications from our industry-standard OL 730C – packaged them with user-friendly Windows® 2000 or XP-based software – and developed a Radiometric and Photometric platform entirely controlled by your PC. The OL 730CV was designed for precision & accuracy at a fraction of the cost of comparable stand-alone systems.

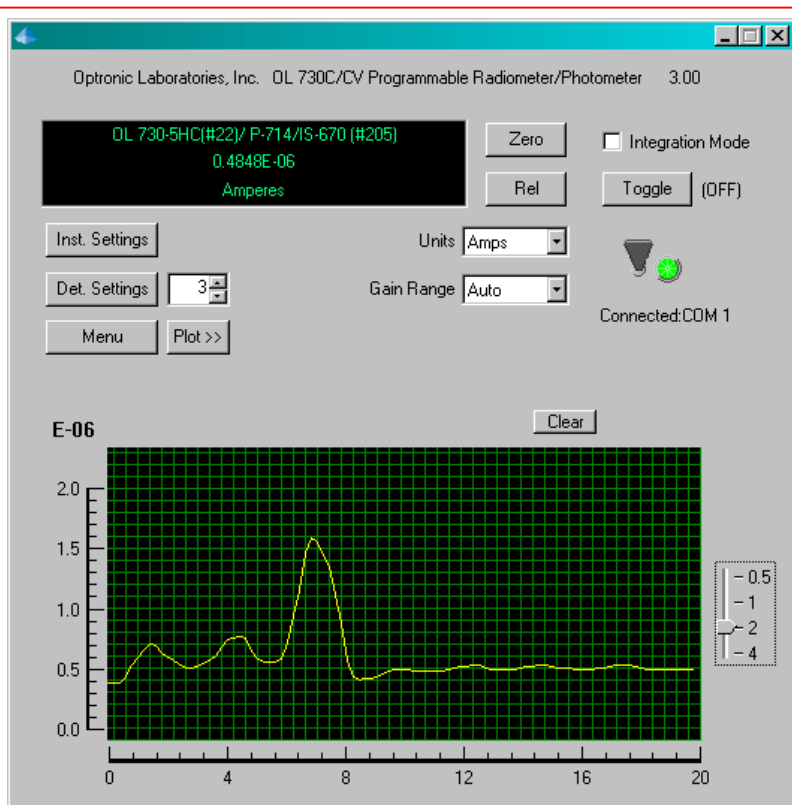
User-configured Radiometric and Photometric Modular Systems

Customize the OL 730CV with any/or a combination of a vast array of accessories including Detectors, Optical Filters, Calibration Standards and Input Optics, optimally designed to measure:

- Luminous Flux
- Luminance
- Illuminance
- Radiant Flux
- Radiance
- Irradiance
- Transmittance
- Luminous Intensity
- Radiant Intensity

Applications:

- Lamp Measurement
- LED Measurement
- Production
- R&D
- Laboratory



SPECIFICATIONS

Display and Readout.....	Virtually unlimited via PC Graphics
Units	User Programmable
Range Selector	Auto or User Programmable
Zero Control.....	Auto
Range FS.....	2×10^{-3} to 2×10^{-10} amperes
Resolution.....	10^{-14} amperes
Software Included	Windows® 2000 or XP control software
Optional Software	Active X™, LabVIEW™ Drivers
Current Accuracy:	
10^{-3} to 10^{-7} amperes	$\pm 0.05\% + 1$ digit
10^{-8} to 10^{-9} amperes	$\pm 0.1\% + 1$ digit
10^{-10} amperes	$\pm 0.5\% + 2$ digit
Maximum Current.....	2mA
Outputs	RS232 (standard), GPIB (optional)
Communications Baud Rate	9600 bps
External Programming.....	Through Interface
Response Time.....	User selectable for each gain
.....	Range from 0.1 to 25.5 seconds
Size.....	3.5 x 17 x 10 inches (9 x 43 x 25.5 cm)
Weight	8.5 lbs. (3.85 kg)
Power Requirements	115 VAC @ 60 Hz / 220VAC @ 50 Hz
Warranty.....	1 year parts and labor
Rack Mount.....	Optional
Programmable PMT Bias	Optional

Detectors Available

Part Number	Type	Wavelength Range
OL 730-5A	Silicon	200 - 1100nm
OL 730-5H	Silicon (high sensitivity)	200 - 1100nm
OL 740-15	PMT (S-20)	200 - 800nm
OL 730-Ge	Germanium	800 - 1800nm
OL 730-InGaAs	Indium Gallium Arsenide	800 - 1800nm

Optical Filters Available

Photometric
Radiometric
Ratio Temperature (set of 2)
Attenuation (10, 1, & 0.1%)
Spectral Bandpass (user specified)

Input Optics Available

OL 16AB	LED Receptor (compliant to CIE Publication 127, Condition A & B)
OL Series 85	Cosine Receptors (transmitting)
OL IS-430	4-inch Integrating Sphere Cosine Receptor (in-line ports)
OL IS-670	6-inch Integrating Sphere Cosine Receptor (90° ports)
OL 730-7G	Glass Fiber Optic Probe
OL 730-7Q	Quartz Fiber Optic Probe
OL 600	Direct Viewing Imaging Optics Module
OL 730-8	Reflex Viewer Microscope
OL 730-9	Reflex Viewer Telescope

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 LabVIEW is a trademark of National Instruments Corporation.



OPTRONIC LABORATORIES

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