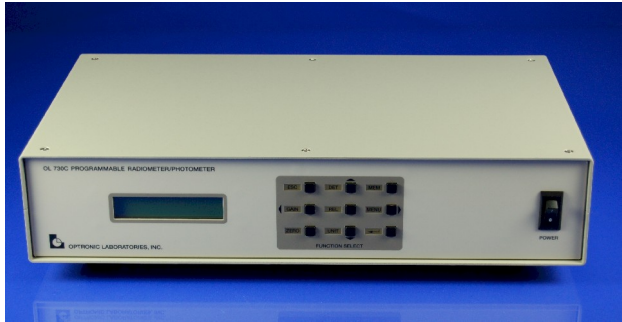


Gooch & Housego



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OL 730C and OL 730CV Radiometer/Photometer Feature and Comparison Chart



The NEW OL730CV - a value-packed virtual instrument

For years, the OL 730C Programmable Radiometer/Photometer has set the standard when it comes to superior performance, accuracy, sensitivity and versatility.

Now there are two models to choose from – our OL 730C, complete with all the state-of-the-art features customers have come to expect, like high-sensitivity, auto ranging, auto zeroing, an arsenal of optional detectors and accessories, as well as the ability to function as a stand-alone or PC controlled; and now the OL 730CV, our lower priced PC-controlled virtual instrument for those applications not requiring stand-alone functionality.

Contact: sales@goochandhousego.com

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As part of our policy of continuous product improvement, we reserve the right to change specifications at any time

Feature Comparison of Radiometers with the de facto standard – the original OL 730C

When used with a wide range of photodetectors, input optics and other accessories, the OL730C and OL730CV perform a multitude of high accuracy radiometric and photometric measurements.

| FEATURES | Top G&H features | New OL 730C | OL 730CV | Old OL 730C |
|--|------------------|--|--|----------------------------|
| Display type | X | 40 char alpha-numeric LCD | virtually unlimited - PC graphics | same as NEW OL 730C |
| Low light viewing and operation | X | backlit display and key functions | on host PC | VFD, lighted key functions |
| Direct sunlight viewing | | good | good | not possible |
| Resolution (Amps) | X | 10 ⁻¹⁴ 10 ⁻¹⁵ optional | 10 ⁻¹⁴ | same as NEW OL 730C |
| Maximum current | | 2mA | 2mA | same as NEW OL 730C |
| Current accuracy +/- | | 10 ⁻³ to 10 ⁻⁷ ± 0.05% 10 ⁻⁸ to 10 ⁻⁹ ± 0.10% 10 ⁻¹⁰ ± 0.50% 10 ⁻¹¹ ± 0.60% | 10 ⁻³ to 10 ⁻⁷ ± 0.05% 10 ⁻⁸ to 10 ⁻⁹ ± 0.10% 10 ⁻¹⁰ ± 0.50% 10 ⁻¹¹ ± 0.60% | same as NEW OL 730C |
| Chart recorder signal out | | Recorder +/-3VDC | Recorder +/-3VDC | same as NEW OL 730C |
| Programmable response time | X | yes | yes | same as NEW OL 730C |
| % transmittance/reflectance function | X | yes | yes | same as NEW OL 730C |
| Measurement hold registers | | 99 | NA | same as NEW OL 730C |
| High sensitivity detector input option | X | yes | no | same as NEW OL 730C |
| Mux expansion option to 512 detectors | X | yes | no | same as NEW OL 730C |
| Communications | X | RS-232 std, GPIB, USB optional | RS-232 std, GPIB, USB optional | RS-232 std, GPIB optional |
| Communication baud rate | X | 300-9600 bps programmable | 300-9600 bps programmable | same as NEW OL 730C |

Feature Comparison of Radiometers with the de facto standard – the original OL 730C

| FEATURES | Top G&H features | NEW OL730C | OL 730CV | Old OL 730C |
|--|------------------|---|---|-----------------------------|
| External programming through interface | | yes | yes | same as NEW OL 730C |
| Units | X | user programmable | user programmable | same as NEW OL 730C |
| Miscellaneous | | No longer necessary | No longer necessary | Has front panel rotary knob |
| Software included | X | Serial, GPIB Labview Vi's , plus Windows control Software | Serial, GPIB Labview Vi's plus Windows control Software | DOS program |
| Power | | 115/230V 50/60 Hz | 115/230V 50/60 Hz | same as NEW OL730C |
| Maximum calibration factors stored in instrument | X | 25 | 25 | same as NEW OL 730C |
| Display update rate | X | selectable | selectable | same as NEW OL 730C |
| Programming | X | Front Panel or Windows software | Windows software | Front Panel or DOS program |
| Integration mode | X | yes | yes | same as NEW OL 730C |
| Integral PMT HV supply option | X | yes | yes | same as NEW OL 730C |
| Rack mount option | | yes | yes | same as NEW OL 730C |
| Optional software | X | Script lab network Windows control software | Script lab network Windows control software | none |

Accessories, Options, and Applications

Detectors Available

| <u>TYPE</u> | <u>WAVELENGTH RANGE</u> |
|----------------------|-------------------------|
| Silicon | 200 to 1100 nm |
| Silicon w/ Amplifier | 200 to 1100 nm |
| Ge (TE cooled) | 800 to 1800 nm |
| InGaAs | 800 to 1800 nm |
| Photomultiplier | 200 to 800 nm |

Optical Filters Available

Photopic
Tristimulus (set of 4)
Color Temperature (set of 2)
Radiometric
LED Photometric
Attenuation (10, 1, & 0.1%)
Spectral Bandpass

Input Optics Available

OL 600 Direct Viewing Imaging Optics Module
OL 15 LED Receptor
OL Series 85 Cosine Receptors (transmitting)
OL IS-430 4-inch Integrating Sphere Cosine Receptor (in-line ports)
OL IS-440 4-inch Integrating Sphere Cosine Receptor (90° ports)
OL 730-7G Glass Fiber Optic Probe
OL 730-7Q Quartz Fiber Optics Probe

Applications

| | | |
|----------------------|-----------------------------|----------------------|
| Luminous Flux | Radiant Flux (power) | Transmittance |
| Luminance | Luminous Intensity | Radiance |
| Illuminance | Radiant Intensity | Irradiance |

See *Product Bulletin #123* for more detailed description of the OL 730C Programmable Radiometer/Photometer.