

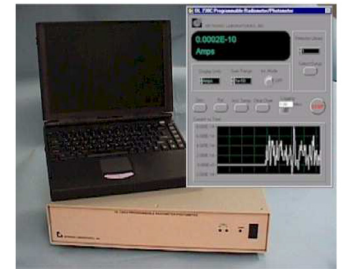
# OL 730C AND OL 730CV RADIOMETER / PHOTOMETER FEATURE & COMPARISON CHART

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.



*Redesigned OL 730C stand-alone or PC-controlled versatility*



*The NEW OL 730CV - a value-packed virtual instrument*

## 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
<b>DISPLAY TYPE</b>	X	40 Char Alpha-numeric LCD	Virtually Unlimited - PC Graphics	Same as NEW OL 730C
<b>LOW LIGHT VIEWING AND OPERATION</b>	X	Backlit Display and Key Functions	On Host PC	VFD, Lighted Key Functions
<b>DIRECT SUNLIGHT VIEWING</b>		Good	Good	Not Possible
<b>RESOLUTION (AMPS)</b>	X	10 <sup>-14</sup> 10 <sup>-15</sup> Optional	10 <sup>-14</sup>	Same as NEW OL 730C
<b>MAXIMUM CURRENT</b>		2mA	2mA	Same as NEW OL 730C
<b>CURRENT ACCURACY +/-</b>		10 <sup>-3</sup> to 10 <sup>-7</sup> ± 0.05% 10 <sup>-8</sup> to 10 <sup>-9</sup> ± 0.10% 10 <sup>-10</sup> ± 0.50% 10 <sup>-11</sup> ± 0.60%	10 <sup>-3</sup> to 10 <sup>-7</sup> ± 0.05% 10 <sup>-8</sup> to 10 <sup>-9</sup> ± 0.10% 10 <sup>-10</sup> ± 0.50% 10 <sup>-11</sup> ± 0.60%	Same as NEW OL 730C
<b>CHART RECORDER SIGNAL OUT</b>		Recorder +/-3VDC	Recorder +/-3VDC	Same as NEW OL 730C
<b>PROGRAMMABLE RESPONSE TIME</b>	X	Yes	Yes	Same as NEW OL 730C
<b>% TRANSMITTANCE / REFLECTANCE FUNCTION</b>	X	Yes	Yes	Same as NEW OL 730C
<b>MEASUREMENT HOLD REGISTERS</b>		99	N/A	Same as NEW OL 730C
<b>HIGH SENSITIVITY DETECTOR INPUT OPTION</b>	X	Yes	No	Same as NEW OL 730C
<b>MUX EXPANSION OPTION TO 512 DETECTORS</b>	X	Yes	No	Same as NEW OL 730C
<b>COMMUNICATIONS</b>	X	RS-232 Std, GPIB, USB Optional	RS-232 std, GPIB, USB Optional	RS-232 std, GPIB Optional
<b>COMMUNICATION BAUD RATE</b>	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 OL 730C	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 OL 730C
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 XHV 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	
TYPE	WAVELENGTH RANGE
Silicon	200 to 1100 nm
Silicon with 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

APPLICATIONS		
Luminous Flux	Radiant Flux (Power)	Transmittance
Luminance	Luminous Intensity	Radiance
Illuminance	Radiant Intensity	Irradiance

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

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

**OPTRONIC™**  
LABORATORIES

Information Sheet: IS26 Jan 2019

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