

ILT5000

Research radiometer and picoammeter (wired and wireless versions)



The ILT5000 Research Radiometer is “The ILT1700 for the 21st Century” improving on the industry standard with rapid measurements (up to 100 Hz), a broader dynamic range (100fA to 1 mA), extensive supporting software apps, wireless communication, internal data storage, and a 4-20 mA output. The broad linear dynamic range of the ILT5000 and the SMA input connector allow the meter to also serve as a broadrange, highly sensitive and accurate picoammeter.

The ILT5000 research radiometer supports numerous light measurement applications including, but not limited to; radiometry, photometry, research, UVGI-sterilization, solar, photoresist, optical radiation hazard, phototherapy, photo-degradation, plant growth and more. System configurations are based on the industry standard ILT1700 research radiometer/photometer.

Note: The ILT5000 is backwards compatible with the ILT1700 “D” type sensors, as well as all of ILT’s vast supporting filters, input optics, integrating spheres and ISO 17025/NIST traceable calibrations.

Software

The ILT5000 comes with DataLight II software, a complementary basic Labview DLL and 5 versions of software including: CLI, BAR, TREND, DATALOG and the ALL NEW METERS app. designed to cover a wide range of applications.

Meters

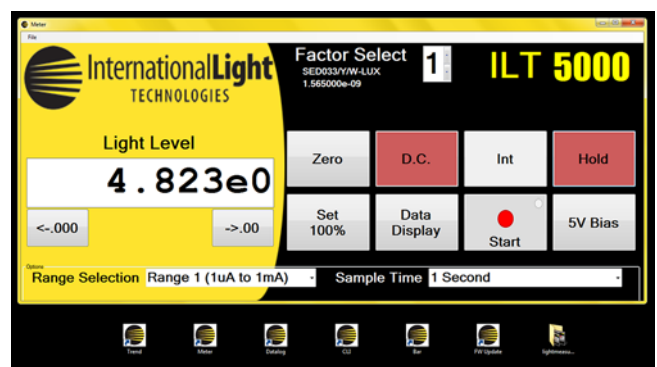
Designed to maintain the look and feel of the industry standard ILT1700 research radiometer. Designed for wireless use with windows 8 tablets and touch screen computers, the larger, user-friendly panel includes buttons for hold, zero, integrate, factor, range, average and units selection.

Features and benefits

- 10 decade dynamic range of optical analysis
- Wireless transmitter, built-in
- Backwards compatible with ILT1700 SED detector/ filter/optics
- Autorange, autodark, auto-sample with user control options
- 4-20 mA output
- “Set it & forget it” remote data logging
- Built-in re-chargeable battery pack
- Multi-system simultaneous continuous monitoring
- 5 Open licensed, customer-configurable software apps
- Labview compatible
- NIST-traceable/ISO17025 accredited calibration and certificate.
- Sample rate up to 100 Hz, programmable

Specifications	
Measurement range	100 fA-1 mA (1nW/cm ² -10 W/cm ²)
Reverse bias	2 voltages/selectable
Automatic ranging:	rapid switching through all current levels
WiFi	Enabled
Operating temperature	-40 to 85°C (Calibrated irradiance 0-50 °C)
USB2	Including power, for single and multiple systems
USB current draw	500 mA max, 250 mA typical
Size	1-3/5" H x 5" W x 7" L 44x127x177,8 mm
Input connector	D-Sub and/or SMA
CE certified	No rf noise

Ordering information	
ILT-ILT5000	Research radiometer & picoammeter

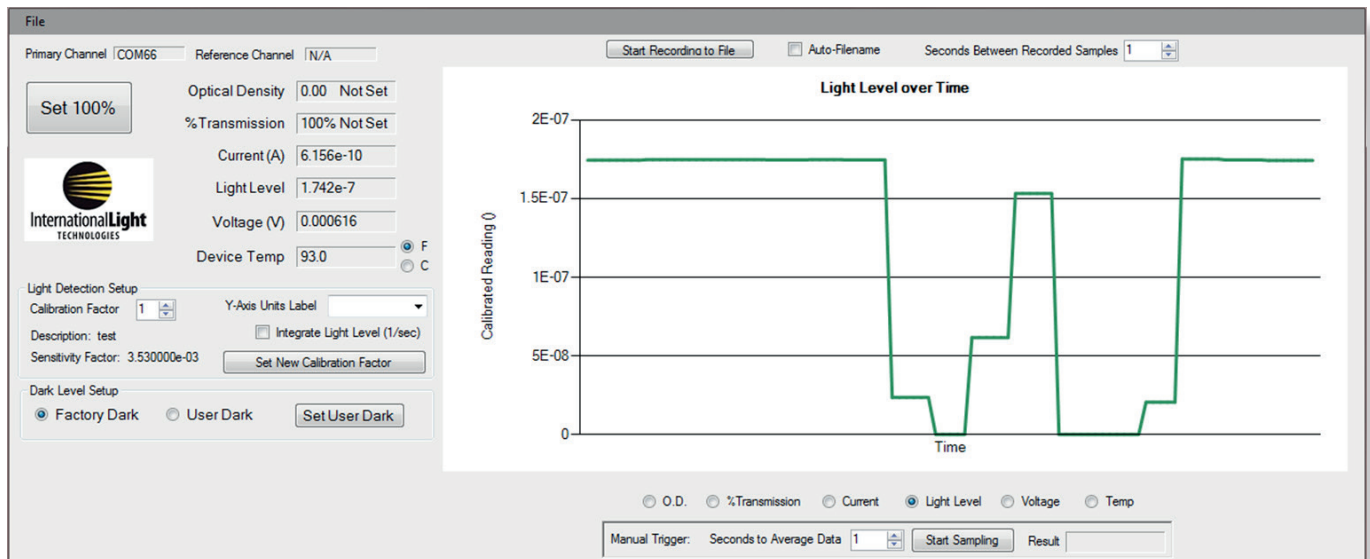


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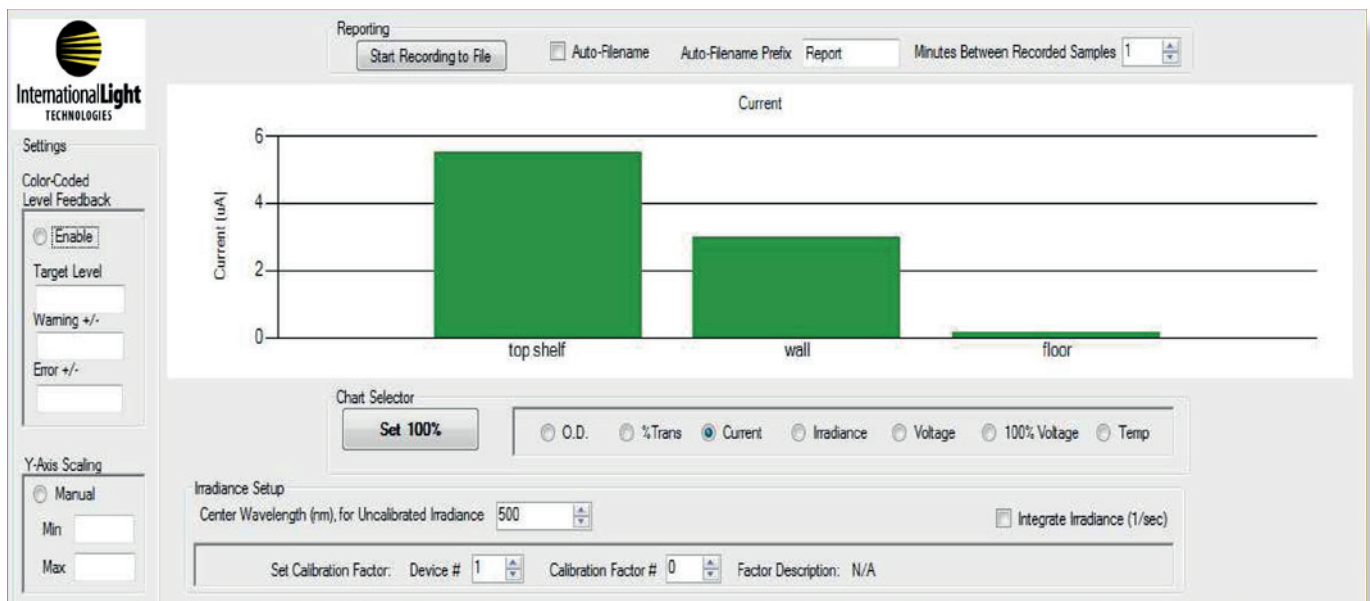
Trend

Records all six parameters while displaying the trend over time for the user switchable parameter. Multiple examples of trend can be run simultaneously to allow multi-unit comparisons. Trend also has a user-friendly calibration feature.



Bar

Allows multisystem, datalogging and displays the user switchable parameter in a bar graph. The expandable graph can accommodate up to 32 systems simultaneously with use of hub(s). User can enter nicknames for each unit to define the location, application, version, serial number, etc. Customer can program max and min warning levels and use color coded bar responses for easy troubleshooting.



CLI is a very basic command line interface program that allows customer to type commands from the API and record readings into the device memory.

Datalog is a user interface that allows remote "set it and forget it" datalogging. All software is provided with an open source (MIT) license for ease of customization. A full version API is also available.