ILT1000

Light Meter, Monitor & Data Logger

WIRED & WIRELESS Versions

Features:

- 6 decade dynamic range of optical analysis
- Autorange, Autodark with manual control options
- 4-20 mA output
- "Set it & forget it" remote data logging w/ on-board data storage
- Multi-system continuous monitoring (up to 32 systems w/ one hub)
- DataLight II Complementary Light Measurement and Data Collection Software Apps
- Auto-sample rate configuration to reduce noise
- NIST-Traceable calibration and certificate
- Many pre-configured application-specific detector/filter/optics combinations available
- Custom and OEM version inquiries welcome
- Made in USA

SPECIFICATIONS

Choose from 5 Detector Configurations Covering UV to NIR:

- ILT1254 UVC: Silicon diode/built-in 254 nm filter 249-259 nm
- ILT1320 UV: GaN diode 200-320 nm
- ILT1005 UV-VIS: GaAsp 250-675 nm
- ILT1000 Broadband: Silicon diode 200-1100 nm
- ILT1007 IR: InGaAs diode, 850-1700 nm
- **Plus**
  ILT1000-OEM: ILT1000 for Custom Range

- **Six Decades of Light Sensitivity**
- **Optical Density:** 0.00 to 4.00 Optical Density
- **Optical Density Repeatability:** (single) ±1%, (multiple) ±2.5%
- **Operating Temperature:** -40 to 85 ºC (Calibrated Irradiance 0-50 ºC)
- **USB:** USB2, Including Power, for Single and Multiple Systems
- **USB Current Draw:** 200 mA max, 130mA typical
- **Simple, Well Documented API for Custom Programming**
- **Weight:** Less than 1 lb
- **Size:** Approx. 2" x 3"

Typical Applications: *UV Monitoring including* bottled beverage and food industry, drinking and pool water disinfection, HVAC, semiconductor, pharmaceutical/cosmetics, wastewater/municipal disinfection.

Other applications include Process Monitoring, Curing, Plant Photobiology, Thin Film Deposition, Ribbon Clarity/Glass Production and Liquid Turbidity, and Transmission Measurements.

ILT1000 Shown with Optics Options

DESCRIPTION

The most versatile UV, VIS, and IR datalogging optometer available on the market today. The ILT1000 design is backed by **50 YEARS** of light measurement experience and comes complete with NIST traceable, ISO 17025 accredited calibrations.

System configurations are based on the industry standard ILT1700 Research Radiometer/Photometer detectors, filter/optics and calibrations.

The ILT1000 was designed with OEM and customer configuration in mind and can easily accommodate most solid state detectors, 1/2" and 1" optical filters and a vast selection of input optics.

The ILT1000 is capable of measuring over 6 decades of light and providing direct readout in W, W/cm^2, Lux, Fc, Lumens, cd/m^2, cd, W/sr, W/sr/cm^2 and more. On board data storage allows continuous monitoring at customer specified sampling rates using the "set it and forget it" datalogging.

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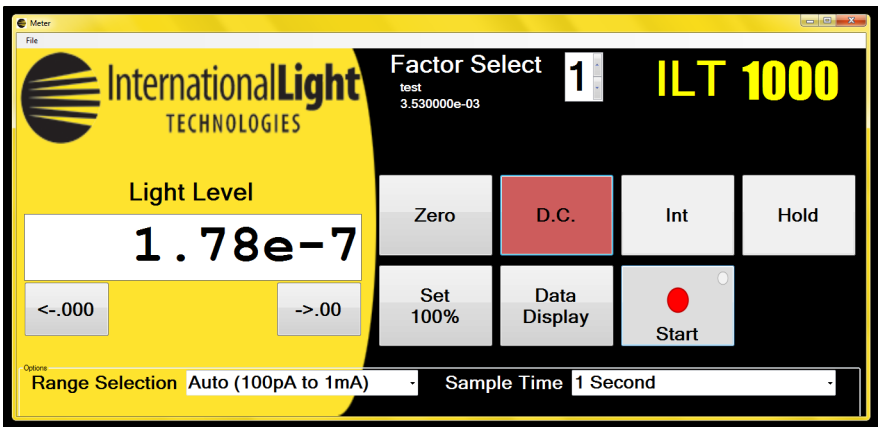
DataLight II ILT1000/ILT5000 Software

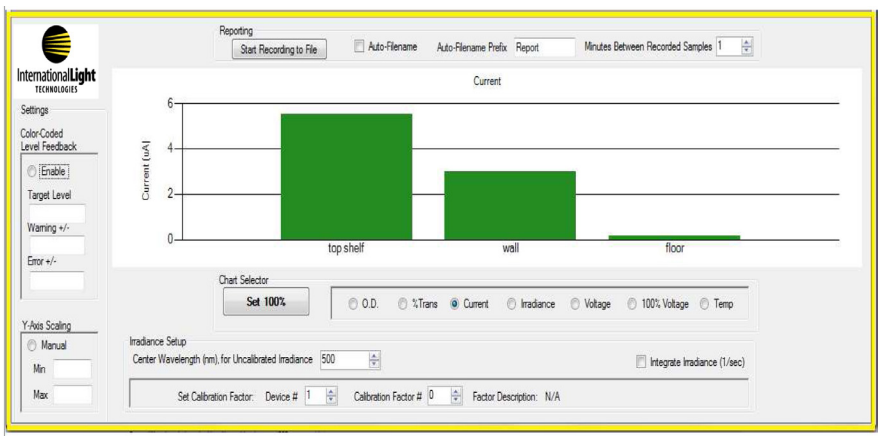
The ILT1000 comes with a complementary Labview DLL sample code, an extensive API and ILT's DataLight II light measurement and data collection software.

ILT1000 Meter Readout on PC/Tablet Screen



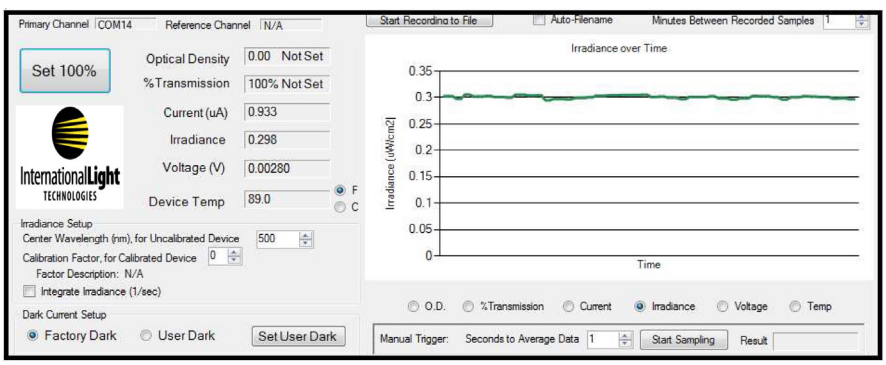
Meters - Designed to maintain the look and feel of the Industry Standard ILT1700 Research Radiometer. Designed for wireless use with windows 8 tablets and touch screen computers, the larger, user-friendly panel includes buttons for hold, zero, integrate, factor, range, average and units selection.

ILT1000 Bar Analysis on PC/Tablet Screen



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.

ILT1000 Trend Analysis on PC/Tablet Screen



TREND - Records all 6 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.

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.

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50 Years of Innovation in Light Technology 1965-2015