ILT70 Series

ILT70

OEM Radiometer

ILT72CE

UVA Radiometer

ILT73-NBCE

UVB Radiometer

ILT74CE

Bili-Light Radiometer

ILT77CE

Germicidal Radiometer

ILT70 OEM RADIOMETER

The ILT70 OEM Radiometer is a simple, NIST-traceable, hand-held light meter, designed for routine use, that can be customized with application-specific detectors, labeling, graphics, and colors for OEMs and resellers.

Developed to offer OEMs and resellers a versatile instrument, the ILT70 OEM Radiometer is available in standard models to measure UVA, UVB (broadband or narrowband), billirubin (in irradiance and band irradiance units), and germicidal. Custom sensors can also be designed for measurements between the spectral ranges of 200 and 1,100 nm with readout in units of W/cm2, W/cm1/nm, W, lux, cd/m2 as well as other imperical units.

The ILT70 OEM Radiometer can be further customized with a variety of feature sets including a hold function, exposure reading, and automatic shut-off. Featuring a 4 1/2 digit LCD that provides a direct readout, this rugged radiometer has a low-battery indicator and protective rubber boot available in several colors.

ILT70 FEATURES & BENEFITS

NIST - traceable certification

4 1/2 - digit readout

Detector can be customized:
- Measurement range
- Spectral range
- Units of measurement

Simple 1 - button operation

Additional control buttons are optional such as units, peak, etc...

Up to two LED indicators available

Optional removeable protective boot

9 - volt battery operated

Intended for routine use by non-technical personnel

ILT72CE UVA RADIOMETER

The ILT72CE UVA Radiometer was specifically designed to easily and directly measure the UVA output from various UV sources.

The detector has a spectral range of 315 to 390 nm and is calibrated at 360 nm. The meter has a 4 1/2 digit display handling upto 19.999 mW/cm2 with true resolution of 0.01 mW/cm2. Readings are taken using a single button, and the meter shuts off automatically after 2 minutes to preserve the life of the 9 volt battery. It is enclosed in a removable cushioning boot (not shown) that protects the unit from accidental falls and acts as an instrument stand or hanger. Each system is individually calibrated to NIST-traceable standards and is supplied with a calibration certificate

ILT72CE FEATURES & BENEFITS

NIST - traceable certification

4 1/2 - digit readout

Spectral response 315-390 nm (10% pts.)

Calibration at 360nm

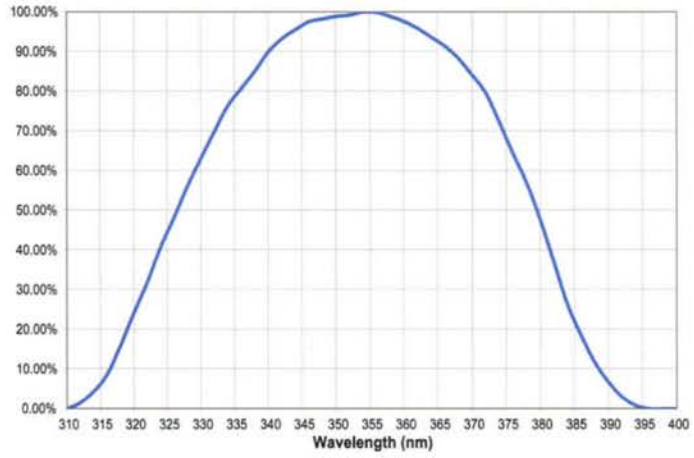
Simple 1 - button operation, auto shut off

9 - volt battery

Hold and range selection features

3-foot detector cable

ILT72CE SPECTRAL RESPONSE



ILT73CE UVB RADIOMETER

The ILT73CE UVB Radiometer directly measures the UVB output from a multitude of conventional UVB sources (DC-60Hz).

The detector is filtered for a spectral range of 275 - 325 nm and comes with a calibration at 290 nm for broadband UVB sources (ILT73CE) or 313 nm for narrow band TL-type UVB sources (ILT73-NBCE). Both models have a measurement range of 1-19.99 mW/cm2. Readings are taken using a single button, and the meter shuts off automatically after 2 minutes to preserve the life of the 9-volt battery. The 4 1/2 digit meter is enclosed in a removable cushioning boot (not shown) that protects the unit from accidental falls and acts as an instrument stand or hanger. Each system is individually calibrated to NIST-traceable standards and is supplied with an appropriate certificate.

ILT73CE FEATURES & BENEFITS

NIST - traceable certification

4 1/2 - digit readout

Spectral response (both models): 275-325 nm (10% pts.)

Calibration at 290nm (ILT73CE) or 313nm (ILT73-NBCE)

3-foot detector cable

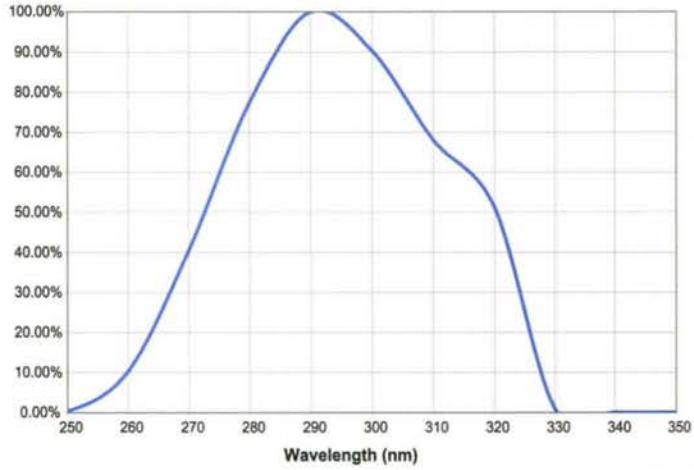
Simple 1 - button operation, auto shut off

9 - volt battery

Hold Feature

ILT73-NBCE is designed for measurement of TL-type UVB lamps and the ILT73CE is designed for broader UVB sources.

ILT73CE SPECTRAL RESPONSE



ILT74CE BILI-LIGHT RADIOMETER

Verification ofprescribed phototherapeutic treatment levels has become increasingly important as the number and variety of hyperbilirubinemia therapy systems has expanded.

The variables of lamp aging and patient distance from the lamp head can cause significant uncertainty in the resulting dosage.

The ILT74CE Bili-Light Radiometer directly measures the exposure level in the patient plane. The detector is filtered to accept the 425 - 475 nm action spectrum, and includes two standard calibrations for measu rement up to 1999.9 W/cm1 and 199.9 W/cm1/nm. Readings are taken using a single button and the meter shuts off automatically after 2 minutes to preserve the life of the 9-volt battery. The 4 1/2 digit meter is enclosed in a removable cushioning boot (not shown) that protects the unit from accidental falls and acts as an instrument stand or hanger. Each system is individually calibrated to NIST-traceable standards and is supplied with an appropriate certificate.

ILT74CE FEATURES & BENEFITS

NIST - traceable certification

4 1/2 - digit readout

Spectral response 425 - 475 nm

Calibrated in µW/cm^2 and µW/cm^2/nm

Simple 2 - button operation

- On/Hold
- Units Select

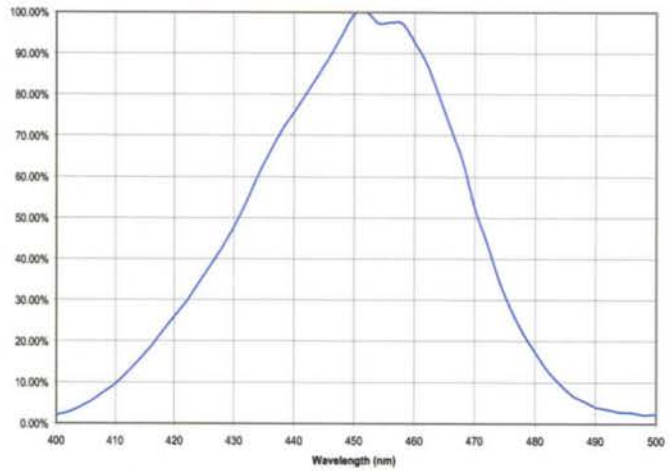
Removable protective boot (not shown)

9 - volt battery operated

Intended for routine use in clinical settings

3-foot detector cable

ILT74CE SPECTRAL RESPONSE



ILT77CE GERMICIDAL RADIOMETER

The use of germicidal low-pressure mercury lamps has rapidly expanded into a wide array of industrial, commercial, and municipal applications such as HVAC, food processing and water treatment.

The increasing popularity of these lamp systems has created a requirement for a simple, economical, yet highly accurate means of monitoring the lamp output to ensure their peak germicidal effectiveness.

The ILT77CE Germicidal Radiometer was specifically designed to easily and directly measure the output from conventional low pressure mercury germicidal lamps only. The included XP77 detector comes with three foot cable and a teflon diffuser. The system measures a spectral range of 214 to 360 nm with a NIST traceable calibration. The meter has a 4 1/2 - digit display handling up to 199.99 mW/cm1 with a resolution of 0.01 mW/ cm1. Readings are taken using a single button, and the meter shuts off automatically after 2 minutes to preserve the life of the 9 volt battery. It is enclosed in a removable cushioning boot (not shown) that protects the unit from accidental falls and acts as an instrument stand or hanger. Each system is individually calibrated to NIST-traceable standards and is supplied with a calibration certificate

ILT77CE FEATURES & BENEFITS

NIST - traceable calibration at 254 nm

Measurement of Low Pressure / Mercury Lamps ONLY

Removable protective boot (not shown)

Simple 1-button operation, auto shutoff

Hold feature

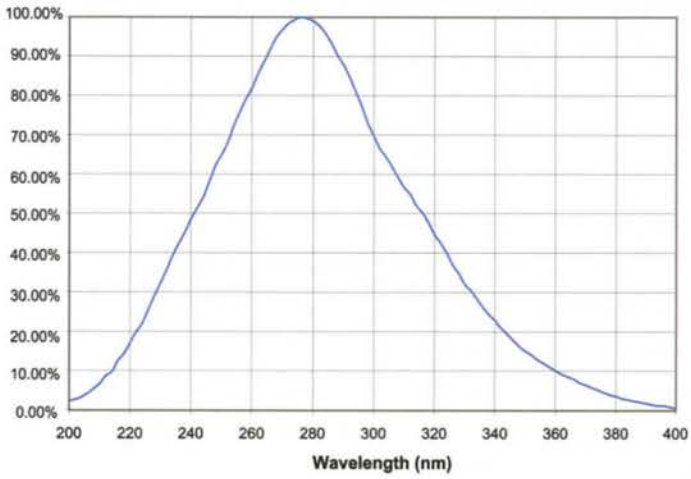
4 1/2 digit readout

Specral Response 214 - 360 nm

9 - volt battery operated

3-foot detector cable

ILT77CE SPECTRAL RESPONSE



COMPANY PROFILE

About International Light Technologies.

International Light Technologies was formed in January, 2006, through the merger of two leaders in electro-optics: Gilway Technical Lamp, a full service supplier of filament lamps, LEDs, and custom illumination systems, and International Light, the premier manufacturer of precision NIST Traceable light measurement instruments.

Two companies, one vision.

Both companies have been filling unique roles in their respective markets since the mid-60's. Gilway has been a pioneer in bringing advanced optical source technology to manufacturers of analytical instruments and gas monitors, lighting and display designers, machine vision illumination and many other applications from esoteric, small quantity devices to high-volume OEMs. As an authorized distributor and tech support facility for Osram/Sylvania modular systems, Gilway offers the technical depth to enable new customer designs as well as the strength to deliver competitive pricing in full production.

Providing customers over 35 years of expertise.

International Light has been the most respected name in precision light measurement for 40 years and knowledgeably supplies instrumentation to universities, industrial research labs, pharmaceutical companies, semiconductor and PC board manufacturers, the automotive and aerospace industries, and is a leader in UV measurement for curing coatings of all kinds as well as for germicidal treatment of air and water.

Innovation and unsurpassed customer support.

The combination of these two firms in a new facility in Peabody, MA brings their customers unparalleled resources in optical calibration, quality and product uniformity, as well as the depth of experience needed to bring the technology of light to contemporary products.

A FULL SPECTRUM OF SERVICES

Send for our catalog.

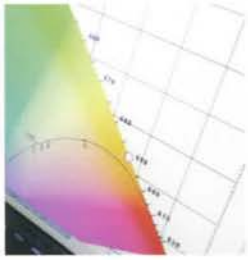
Our new ILT catalog reflects the state-of-the-art in spectroradiometry and radiometry. The catalog is organized in a manner to make the selection of appropriate meters, detectors and accessories by your application objectives, straightforward and informative.

Products and services.

Instruments

Applications

Accessories



Calibrations

InternationalLight
TECHNOLOGIES

NIST Traceable Light Measurement Systems

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