

Luzchem

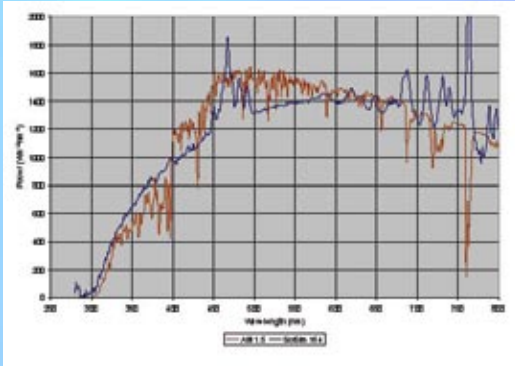
Shedding light on new ideas



Unnamed Seascape, by Elda Scaiano, 2007

SolSim

Solar Simulator



Applications

- AM1.5 Solar Spectrum matching
- Photovoltaics
- Environmental applications

Features

- 300 W Xenon light source with variable power
- Filters for AM1.5 matching
- Digital timer operates shutter or main power
- Optional power meter or standard cell
- Large 60cm² exposure area
- Adjustable intensity



Photoreactors

UV-Visible Exposure Tools for Controlled Irradiation

Applications

- Photochemistry
- Photobiology
- Drug Photostability
- UV Curing
- UV Disinfection
- Photodynamic Therapy

Options

- Motor drive
- Installed or portable carousel and turntable
- Recessed magnetic stirrer
- Digital timer
- Temperature monitor

Features

- Air-cooled
- Top lamps and side lamps
- Different wavelength ranges
- Safe exhaust



CCP

Computer Controlled Photoreactors

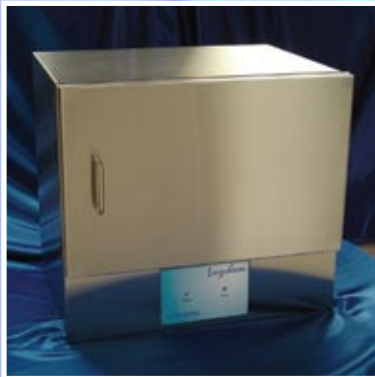


Features

- Log exposure conditions, lamps used and time
- Bulkhead connector for gases
- Safe exhaust and safety goggles
- Timed exposure
- USB interface

Options

- Power meter
- Carousel and turntable
- Recessed magnetic stirrer
- ICH compliance



ICH Compliance

International Conference on Harmonization

Features

- Digital timer
- Safe exhaust
- Safety goggles
- Certification, data and mapping



ICH Option 1

- Xenon lamp and filters
- Shutter

ICH Option 2

- Temperature control
- 8 side and 8 top fluorescent lamps
- Power meter
- Carousel and turntable
- Recessed magnetic stirrer

MSL - NEW!

Modular Spectroscopy Laboratory

One Instrument...

...Many Capabilities

Modular design permits:

- Many spectroscopic techniques, one user interface
- Choice of combined functionalities to meet every need
- Easy acquisition
- Comparison of different types of measurements quickly and easily

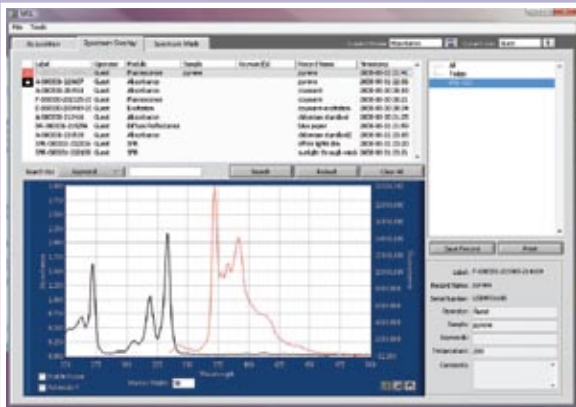
Only 24 x 12 x 8 inches!!

Functions Available

- Absorbance
- Fluorescence
- Spectroradiometry
- Thin Film Analysis
- Diffuse Reflectance

Soon to be Available

- Stopped Flow
- Chemiluminescence
- Bioluminescence
- NIR



Spectroradiometers



Features

- Variable integration times
- Timed acquisition
- Data can be displayed as raw intensity or as a power spectrum
- Display includes graphic data and integrated spectral ranges
- Displays real time data
- Excellent cosine response
- Stores full spectra at user-selected intervals
- CIE Colour Analysis available

Applications

- Tanning bed testing
- LED's
- Photobiology research
- Drug photostability testing
- Environmental dosimetry
- Curing applications



LFP

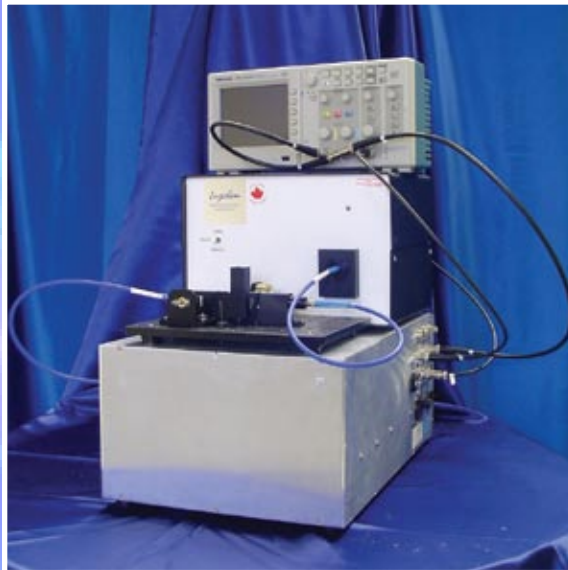
Laser Flash Photolysis

Features

- Turn-key system
- Air-cooled
- Software allows full control and optimization of operating parameters
- Small footprint

Factory Installed Options

- Variable temperature
- UV-VIS spectrometer
- Diffuse reflectance
- Linear variable filter
- Signal amplifier



TFA

Thin Film Analyzer and Dissolution Rate Tool

Features

- Film thickness from 60 nm to over 20 microns
- Dissolution rates with multiple sampling spots per wafer
- Temperature control up to 180°C
- Thickness changes during pre- or post-exposure bake
- Minimal (<1 ml) developer use

Applications

- Dissolution rates
- Solvent loss and deprotection studies
- Crosslinking effects on film thickness
- Curing kinetics



Glassware

Quartz Spectroscopy Supplies

A.

- Spectrometer cuvettes designed for laser photolysis work
- Suitable for most types of spectroscopy
- Optical path has tolerance of 2%
- Ideal for use under inert atmospheres

B.

- Made of UV-quality fused silica
- Less than 0.2% tolerance
- Ideal for demanding fluorescence and absorbance work
- Optical range is 190 nm - 2.5 micron



Quartz Labware

- Ideal for synthetic or photostability work
- Made of commercial quartz with transmittance above 230 nm

Pyrex Supplies

- Ideal for use where transmittance below 300 nm is not required

For more info...

...on exposure tools,
including:

- Expo panels
- Ring illuminators

...on safety accessories,
including:

- UV-Shield
- Safety goggles

...visit us at
www.luzchem.com

Pictured above: UV-Shield

Contact Us

**Luzchem Research Inc.
5509 Canotek Road, Unit #12
Ottawa, Ontario K1J 9J9
CANADA**

Telephone: (613) 749-2442

Toll Free: 1-800-397-0977

Fax: (613) 749-2393

sales@luzchem.com

www.luzchem.com