



# ILT800 UV CureRight

## Profiling UV Radiometer

### NEW ILT800 UV광량계의 특징

#### 외관 (Appearance)

- ✦ 슬림 & 콤팩트 디자인
- ✦ UV에 강한 내구성 케이스
- ✦ 컬러풀 OLED 디스플레이
- ✦ 복사열 보호용 커버 장착
- ✦ 휴대폰 USB 포트 충전

#### 주요기능 (Features)

- ✦ PC 인터페이스 및 전용 소프트웨어
- ✦ 20 개 이상의 개별ID로 측정데이터 관리
- ✦ 1000 개 이상의 측정데이터 저장
- ✦ Auto / Manual / Live 측정모드
- ✦ 사용자 프로그래머블 설정 기능

- ✦ 5.5 decades 의 측정범위
- ✦ 초당 3000개의 샘플링 속도
- ✦ 광도, 광량, 프로파일, 온도 측정기능
- ✦ 별도의 UVA, UVB, UVC, UVV 등의 디텍터를 최대 10개 까지 장착하여 동시 측정가능하며, 디텍터 단독측정후 ILT800 에 연결하여 데이터 확인

### ILT800 Overview



- Dimensions** : 102 x 152 x 12.7 mm
- Weight** : 300 g
- Display** : 19 x 170 mm OLED
- Power** : Mini USB & rechargeable battery
- Temp** : 0 - 75 degrees (internal case temp.)
- Input Optic** : Cosine correction diffuser
- Memory** : 400,000 data points

#### Features-At-A-Glance

- ✦ Largest measurement range at 5.5 decades
- ✦ Device ID - store up to 20 unique source ID
- ✦ Customization with user-programmable settings
- ✦ 3000 samples per second
- ✦ Measure pulsed and continuous sources
- ✦ Store/Recall up to 1000 profiles
- ✦ Solid-state sensors with linear response
- ✦ Temperature measurement
- ✦ UV resistant housing all sides
- ✦ Low battery warning
- ✦ ISO17025 Calibration

#### Models Specifications

Models	Specifications
ILT800-UVA	: 315-390 nm
ILT800-CUV	: 215-350 nm
ILT800-UV	: 250-400 nm
ILT800-BAV	: 275-475 nm
ILT800-UVF	: 360-400 nm Flat, (275-450nm)

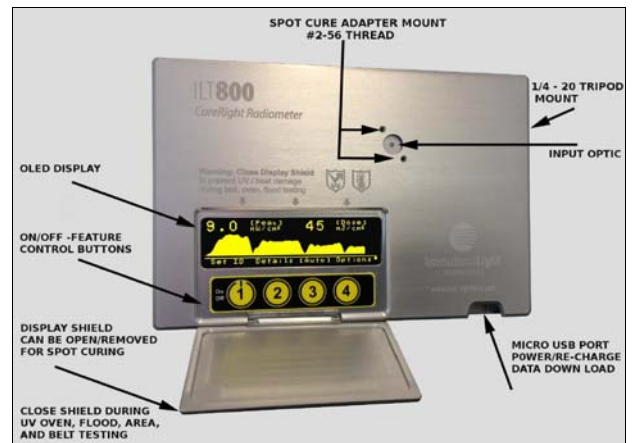
OEM / custom filtration available

ILT850-UVA, UVB, UVC, CUV, UV, BAV, UVF

**Range** : 5.5 decade  
(mW/cm<sup>2</sup> to 40 W/cm<sup>2</sup>)

**Readout** : mW/cm<sup>2</sup>, mJ/cm<sup>2</sup>,  
W/cm<sup>2</sup>, J/cm<sup>2</sup>, Profile/graph,  
Date, Time, Temperature.

**Sensors** : Linear, Solid state GaAsp &  
SiC



## What is the ILT800 CureRight Radiometer

What does the ILT800 measure:

**Peak Intensity:** W/cm<sup>2</sup> or mW/cm<sup>2</sup>

**Dose exposure:** J/cm<sup>2</sup> or J/m<sup>2</sup>.

**Time:** Integration times.

**Profile:** The profile is a graph of the intensity over time. Profiling is an excellent trouble shooting tool.

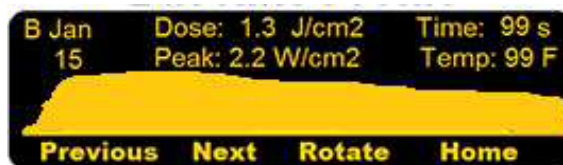
## Application Examples of ILT800

**Lamp analysis:**

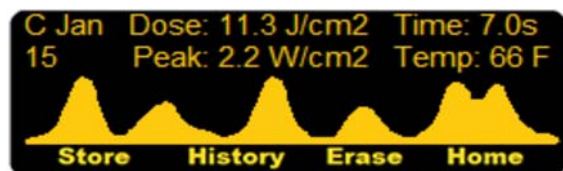
Lamp needed more time to warm up.



Lamp is degrading over time.



**Reflector analysis 5 reflector/lamp UV oven:**



Peaks 1 and 3 represent well focused normal output lamps.

Peak 2 is lower and wider. Lamp 2 is probably out of focus or the reflector is very dirty.

Peak 4 is lower but not wider. This indicates that lamp 4 is losing power, but is well focused.

Peak 5 has a double hump. This indicates that the reflector is focused, warped or delaminated.

## What's New & Improved

ILT400/490	ILT800
Measure steady state light only	Measure pulsed light or rapid intensity changes
0 - 60 deg C internal temp	0 - 75 deg C internal temp
No temperature sensing	Internal temp sensor
Single Sensor - 1 spectral range per system	Add-on sensors to measure numerous ranges or locations simultaneously
.005 - 20 W/cm <sup>2</sup>	.001 - 40 W/cm <sup>2</sup>
2 digit resolution	3 digit resolution
Single baseline storage	400,000 data points including "metadata", machine ID, sample time, detector temp, irradiance, date/time stamp
Less than 1 Sec sample time	1-5000 readings per second
Image profile only	High-speed sample: 16,000 data points
No updates available	Future proof
Small, gray-scale display	Larger, OLED color display
Rechargeable batteries	New lithium design

## Key New Feature Review

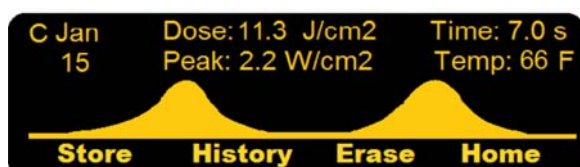
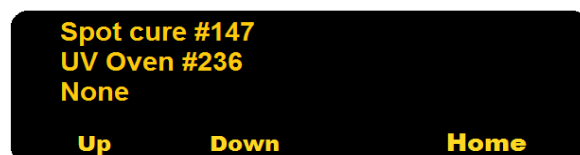
**Device ID – Store up to 20 unique Source IDs**

✦ **A Device ID is a user programmed description of the light source**

✦ **User ID allows customers to:**

- ✓ Save numerous baselines for different models
- ✓ Export and sort saved readings for each source
- ✓ Quickly create reports and analyze data

✦ **Stores up to 1000 saved readings: includes Date, Dose, Peak, Duration, and Temperature**



## Customization – User programmable settings

### Mode:

- Manual: User must press start and stop



- Auto: Receives enough light, starts to measure.



- Live: Instant feedback of irradiance levels



### Light level:

- Irradiance Threshold for Auto Start/Stop when to start measuring when to stop based on irradiance/light level.
- The Threshold Pause time (seconds), How long a reading can be zero/ low before stopping measurement and displaying data.
- Inactivity Time when to shut off the meter (minutes) automatically to save the battery life.

## Why Choose the ILT800

### Customer Needs:

- Prevent product failures from over/under curing
- Prevent costly down time for repair/lamp replacement with frequent monitoring
- Save on costly lamp replacements
- Assure reflectors are aligned properly and clean/working

### Product features:

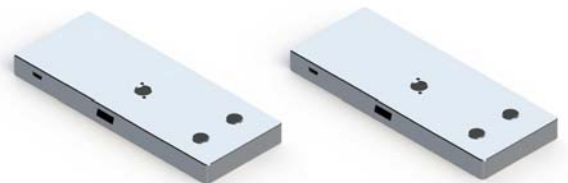
- Ease of use: Auto mode offers simple accurate results
- Excellent reputation: ILT has been making UV meters since 1965
- Durability: ILT products are built to last
- Versatility: Works for all types of UV sources/ You don't need a separate model for your oven and your spot cure station
- Threaded front allows used to add a fiber alignment tool

### Future proof:

- Systems allow for easy software upgrades. Filters and optics easy to repair/replace, removable battery does not require board modification, ILT850 add on modules increase the versatility; UVA today, UVC tomorrow.

### Supporting modules for the ILT800 coming soon:

- The ILT850 module can run while connected to the ILT800 or as a standalone module.
- ILT850's can be purchased with the same spectrum or different ranges.
- ILT850UVB, ILT850UVC, ILT850UVA. In this manner you can test different bands simultaneously.
- ILT800UVA and 10 ILT850UVA, all facing different directions and on different location on the UV to quickly map the UV irradiance within the chamber.



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