



## GenUV New Portable Deep UV Radiometer for easily check UV light power applications



*Unique device provides very accurate measurement of UV lights intensity*

*GenUV, the leading company for the solution of light sense, released the multi-functional portable UV measuring instrument. This product can measure the electricity of UV source very clearly based on GaN sensor technology.*

*Recently, the demands for deep UV light source which is relevant sterilization wavelength in medical treatment has been increasing. The 220nm light source with deep UV wavelength is developed. Its maleficence for human body is*

*low and sterilization effect is high. So, the measuring instrument with suitability and high precision must be developed.*

*As for the existing deep UV meter, it has the limitation for sensing the wavelength. So, the companies had to use very expensive measuring instruments. But EOC developed inexpensive portable deep UV meter which is optimized for measuring 220nm light source. GenUV could do this by applying UV sensor based on GaN technology.*

*GenUV can provide the best measuring solution which is optimized for the purpose of the user. Because it is possible to apply various kinds of measuring ways.*

### Application

#### 1. MEDICAL Deep UV lamp sensor

It is well known that germicidal UV radiation effectively kills bacteria and virus whether or not the bacteria is resistant to antibiotics. However, UV lights are not conventionally used DURING a surgery due to the dangers posed to the patient and staff (skin cancer).

If a very short wavelength of light is used for this application (most germicidal lamps use much longer wavelengths), it cannot penetrate to the genetic material of the human (or animal) cell and cannot cause cancer. However, since bacteria/virus are 100x smaller, it does effectively kill these microbes, creating a more sterile environment at the wound. The narrow-band radiation of Deep UV lamps at 222 nm can be used for this purpose with UV sensor



#### 2. WATER TREATMENT

Point of use water treatment is practical with wavelengths longer than about 200 nm. 222 nm or phosphor conversion lamps have a reasonable efficiency and UV output such that they can be applied to this application. 222 nm radiation is effective at killing pathogens and can be used to treat drinking water with UV sensor.



**< PRODUCT INFORMATION >**

The unit's rugged, cost effective design features many of the operating advantages of more expensive UV light meters. The Meter comes with a detachable sensor probe (Compatible by Sensor type), 4.0 digit LCD display, 9V battery operated, 2 buttons easy function control.

Applications for easily monitor lamp performance, include 3d printing, UV Curing, Medical, UV Disinfection, and Area Exposure.

**< SPECIFICATIONS >**

UV Range Types	*Deep UV Meter (100 ~ 240nm)
Function & Display	Real time Absolute Power(mW/cm <sup>2</sup> ), Accumulated Dose(mJ/cm <sup>2</sup> ), Max. Power (mW/cm <sup>2</sup> ) *No data logging
Display	4 inch digit LCD
Control	2 Buttons (Power and Function)
Accuracy	±10% (NIST Traceable)
Detection range	100mW/cm <sup>2</sup> (Std.), Max. to 1,000 mW/cm <sup>2</sup> (option)
Sensor Cable	100cm Length (39.37")
Operating Temperature	0 ~ 50°C (32 ~ 122°F)
Power Supply	DC 9V Battery (6LR61/6F22), Low Battery Warning
Dimensions	Meter : 139 x 73 x 31 mm (5.47" x 2.87" x 1.22"), 0.1kg (3.6oz) without battery Sensor : Ø35 , H25.5 mm (Ø 1.37" x 1"), 0.02kg (0.7oz)
Warranty	Manufacturer 1 Year Limited

**< About Genicom >**

GenUV is the total solution specialist in UV detection technology over 20 years. GenUV products are based on Indium Aluminum Gallium Nitride (InAlGaN) material. They used this technology to supply a variety of products for UV detection including UV index monitoring, UV water sterilization, UV air purification, UV curing and etc. The GenUV is brand for all Genicom's products.