HAMAMATSU

UV POWER METER
C9536-01, H9958 SERIES

OVER VIEW

The C9536-01/H9958 series are optical power meters designed to measure absolute optical power of UV light (mW/cm^2). These optical power meters have a flat spectral response over a wide UV wavelength region, and are capable of measuring the optical power independent of the spectral emission distribution of a light source to be measured. Unlike commonly available UV power meters, optical power of various UV light sources can be easily measured with just one set of the C9536-01/H9958 series, without having to correct each wavelength of emitted light.

Left: Controller C9536-01, Right: Sensor Head H9958 Series

FEATURES

- **Traceable to National Standard in Japan and a Certificate of Calibration is Appended**
- **Flat Spectral Response Characteristics Over a Wide UV Region**
- **Ideal for Monitoring / Controlling Light Source Power for Photocatalyst**
- **Wide Light-receiving Angle Close to COS θ**

APPLICATIONS

Monitoring, Measurement and Control of:

- **Black Light**
- **Ultraviolet Rays (UV-A)**
- **Mercury-Xenon Lamp**
- **High Pressure Mercury-Xenon Lamp**
- **Deuterium Lamp**
- **UV LED**

SPECIFICATIONS

CONTROLLER: C9536-01

Parameter		Description / Value
Measurement Mode	One shot	This mode makes one measurement each time START switch is pressed.
	Continuous	This mode makes continuous measurements at a sampling rate of 1 second.
	Integration	This mode displays a result integrated over a certain period of time (adjustable from 1 second to 5 minutes in 1 second steps).
External Interface		RS-232C
Power Requirement		Internal battery or AC adapter
Dimensions (W × H × D)		75 mm × 110 mm × 20 mm
Operating Ambient Temperature / Humidity		0 °C to +45 °C / Below 80 %
Storage Temperature / Humidity		-20 °C to +50 °C / Below 80 %
Weight		Approx. 285 g

SENSOR HEAD: H9958 SERIES

Parameter	Description / Value	
Type	H9958	H9958-01
Spectral Response	310 nm to 380 nm	300 nm to 410 nm
Effective Area	φ10 mm	
Measurement Range	1 μW/cm^2 to 100 mW/cm^2	
Dimensions (W × H × D)	55 mm × 75 mm × 18 mm	
Operating Ambient Temperature / Humidity	0 °C to +45 °C / Below 80 %	
Storage Temperature / Humidity	-20 °C to +50 °C / Below 80 %	
Weight	Approx. 195 g	

UV POWER METER C9536-01, H9958 SERIES

Figure 1: Relative Spectral Response Characteristics of Detector (Typ.)
(H9958: 310 nm to 380 nm)

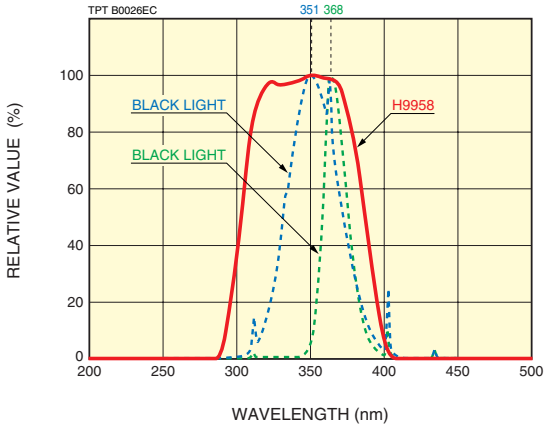


Figure 2: Relative Spectral Response Characteristics of Detector (Typ.)
(H9958-01: 300 nm to 410 nm)

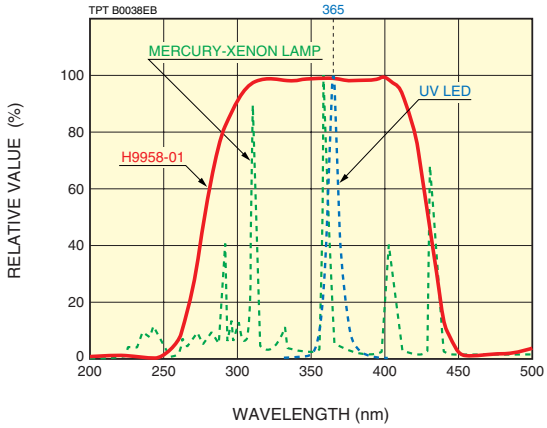
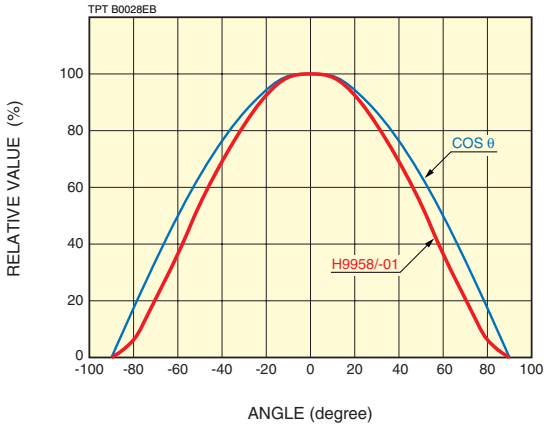


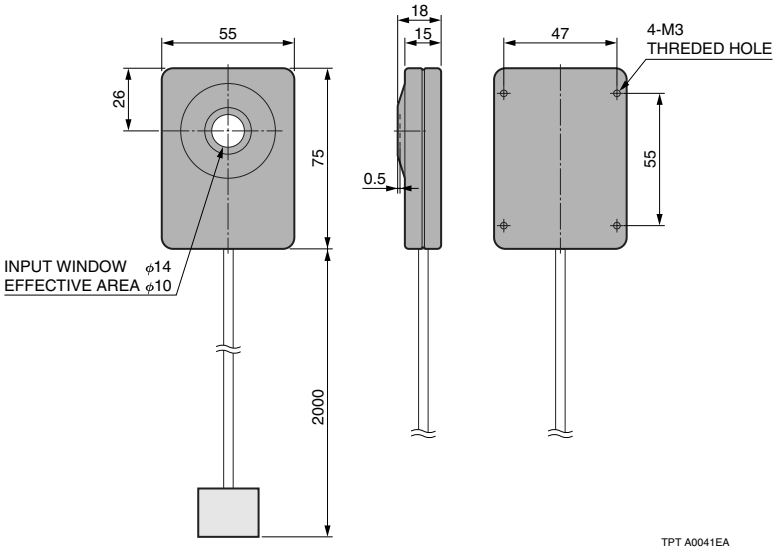
Figure 3: Detector Sensitivity vs. Incident Light Angle (Typ.)



Note: This UV power meter is not a spectrum measuring device. Depending on the emission wavelength or spectral range of light sources to be measured, it might be necessary to place a bandpass filter on the light source side for accurate measurement of optical power.

Figure 4: Dimensional Outline (Unit: mm)

●Sensor Head: H9958 Series



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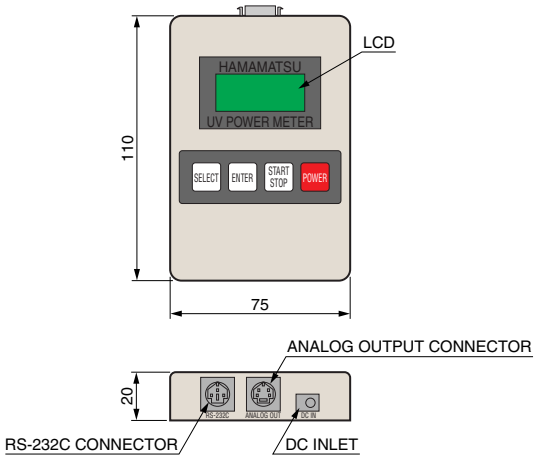
●Controller: C9536-01



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TPT 1022E02
OCT. 2007. IP