HAMAMATSU

PHOTON IS OUR BUSINESS

UV POWER METERS
C9536 / H9958 SERIES

The C9536/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 unit of this power meter, without having correct each wavelength of emitted light. A combination of the C9536-02 and H9958-02 is suitable for measuring the optical power of high output UV-LED.
Also, we recommend a combination of the C9536-01 and H9958 as a power meter to measure the optical power of light sources for photocatalysis.

Left: Controller C9536-01
Right: Sensor Head H9958/-01

Left: Controller C9536-02
Right: Sensor Head H9958-02

FEATURES

- **Traceable to national standard in japan and a certificate of calibration is appended**
- **Flat spectral response characteristics over a wide UV region**
- **High sensitivity (detectable down to 1 μW/cm^2) (H9958, H9958-01)**
- **Compatible with high output UV-LED (H9958-02)**
- **Ideal for monitoring / Controlling light source power for photocatalyst (H9958)**

APPLICATIONS

Monitoring, Measurement and Control of:

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

SPECIFICATIONS

CONTROLLER: C9536-01/C9536-02

Parameter		Description / Value
Measurement mode	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).
	One shot (C9536-01 only)	This mode makes one measurement each time START switch is pressed.
	Peak hold (C9536-02 only)	This mode holds the peak values in continuous measurement.
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 +40 °C / Below 80 %RH (no condensation)
Storage temperature / humidity		-20 °C to +50 °C / Below 80 %RH (no condensation)
Weight		Approx. 285 g

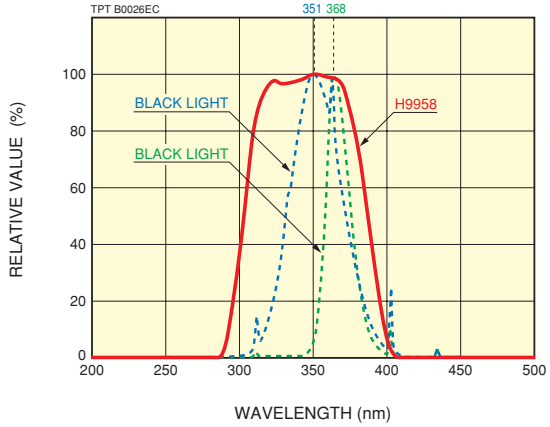
Supplied: RS-232C cable (2 m), Analog output cable (2 m), AC adapter, AC cable
When controlling this product using an external communication interface, please create your own software.

SENSOR HEAD: H9958 SERIES

Parameter	Description / Value		
Controller and sensor head combination	C9536-01		C9536-02
Type	H9958	H9958-01	H9958-02
Spectral response	310 nm to 380 nm	300 nm to 410 nm	
Effective area	ϕ10 mm		ϕ1 mm
Measurement range	1 μW/cm^2 to 100 mW/cm^2		100 μW/cm^2 to 10 W/cm^2
Dimensions (W × H × D)	55 mm × 75 mm × 18 mm		
Operating ambient temperature / humidity	0 °C to +45 °C / Below 80 %RH (no condensation)		0 °C to +60 °C / Below 80 %RH (no condensation)
Storage temperature / humidity	-20 °C to +50 °C / Below 80 %RH (no condensation)		-20 °C to +60 °C / Below 80 %RH (no condensation)
Weight	Approx. 195 g		

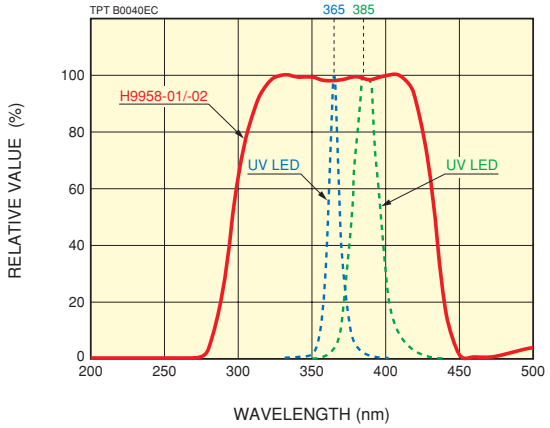
UV POWER METER C9536, H9958 SERIES

Figure 1: Relative spectral response characteristics of detector (Typ.)
(H9958: 310 nm to 380 nm)*



* Slight response may occur outside the wavelength ranges mentioned above.

Figure 2: Relative spectral response characteristics of detector (Typ.)
(H9958-01/-02: 300 nm to 410 nm)*



* Slight response may occur outside the wavelength ranges mentioned above.

Figure 3: Detector sensitivity vs. Incident light angle (Typ.)

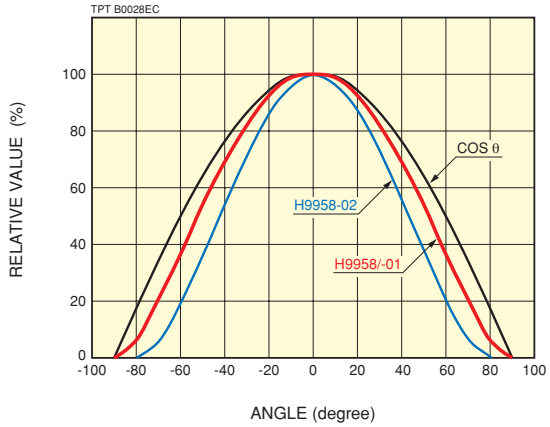
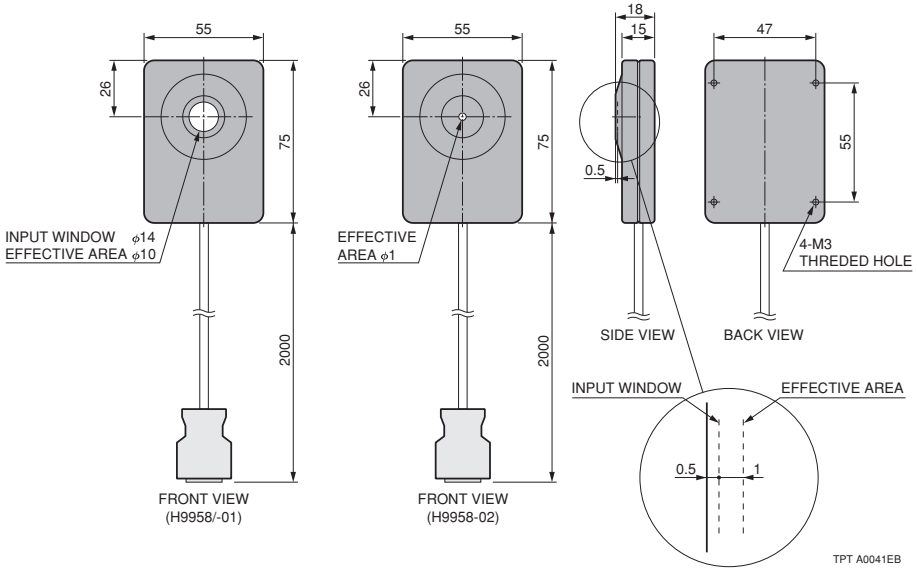
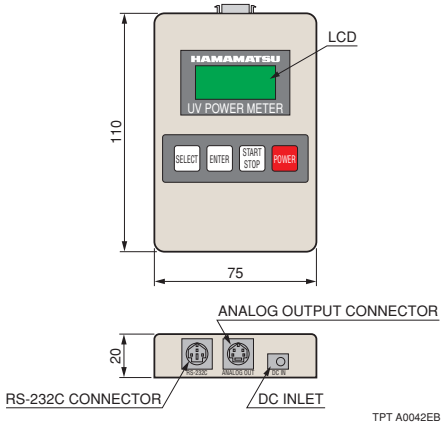


Figure 4: Dimensional outline (Unit: mm)

●Sensor head: H9958 series



●Controller: C9536 series



●Controller and sensor head combination

Controller	Sensor Head
C9536-01	H9958, H9958-01
C9536-02	H9958-02

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TPT 1026E03
JUN. 2025 IP