

## UD-T3040T2 (light receiver for UVR-T2)

### Feature

Due to the distribution responsivity characteristics of the wide and flat ultraviolet wavelength range, it is possible to measure the amount of light within the sensitivity range of 290-430nm without depending on the emission wavelength distribution of the UV-LED. A reduced measurement is possible.

The heat resistance has been increased from 40° C to 60° C, which is currently on the market, making it the optimum specification for lamp intensity management of conveyor-type irradiation equipment used at high temperatures. Please use with UVR-T2 as a set.

- 1. It is possible to measure with reduced variation in UV-LED emission length distribution.
- Wide and flat spectral responsivity characteristics in the UV wavelength range from 290 to 430 nm.
- Corresponds to radiation limit (mW/cm<sup>2</sup>), peak irradiance (mW/cm<sup>2</sup>), integrated value (mJ/cm<sup>2</sup>) measurement.

### Specification

specification	Specification value
UD-T3040T2	
Light receiving element	Silicon photodiode
Light receiving window diameter	φ 3mm
Measurement wavelength range	300 ~ 390nm
Peak sensitivity wavelength	約 355nm
Illuminance measurement range (mW/cm <sup>2</sup> )	Range-1:0.01~60.0 Range-2:0.1~600.0 Range-3:1.0~6000.0
Integrated light intensity measurement range (mJ/cm <sup>2</sup> )	Range-1: 0.01~999.99 Range-2: 0.1~9999.9 Range-3 :1.0~99999.0
Analog output 1mV irradiance (mW/ cm <sup>2</sup> )	Range-1: 0.03 Range-2: 0.3 Range-3: 3.0
data sampling	Sampling time 50Hz: 10ms, 60Hz: 8.33ms Sampling rate 50Hz: 50 times / second 60Hz: 60 times / second

Oblique light characteristics	30 ° : Within $\pm$ 5%, 60 ° : Within $\pm$ 25%
Calibration accuracy(*1)	Within $\pm$ 2%
Linearity(*2)	Within $\pm$ 3%
Analog output voltage	0~2Vmax. Common to each range
interface	USB2.0 (USB A connector-USB micro B connector)
Power supply	AAA battery x 3 (commercially available) / USB bus power
terms of use	Temperature: 10-60 °C / Humidity: 85% R.H. or less (no condensation)
External dimensions (W × D × H) (*3)	75 × 201 × 16mm
mass(*3)(*4)	320g
Optional accessories	Extension unit ZV-48 (2m)

(\*1) For the value of the calibration standard with our calibration light source

(\*2) When a light amount of 5% or more of full scale is incident in each measurement range, when zero correction is used

(\*3) Without heat protection cover

(\*4) Including battery