TOPCON

INDUSTRIAL UV CHECKER **UVR-T2**

Best to manage UV irradiation device. Light intensity adjustment replacing the lamp.

Exposure
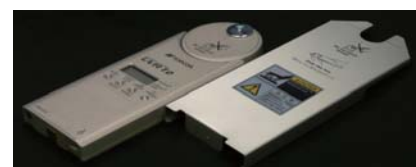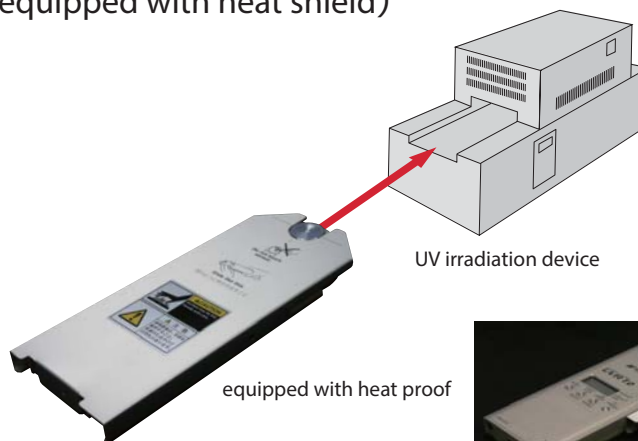**Liquid crystal**
Bonding
Cleaning
Printing
Curing
Sterilization

Irradiance (mW/cm^2)

Peak irradiance (mW/cm^2)

Integral irradiance (mJ/cm^2)

Metal body can be maintained a stable measurement. (equipped with heat shield）

UV irradiation device

equipped with heat proof

Industrial use UV checkered UVR-T2 is ideal for management of UV irradiation equipment used at the Curing, and printing. Based on the measurement result of this product, a customer's improvement in the yield can be adjusted by using it for management of conveyor speed, or lamp intensity distribution and exchange time.

Applications

- Mercury lamp
- Metal halide lamp
- High pressure UV lamp
  etc
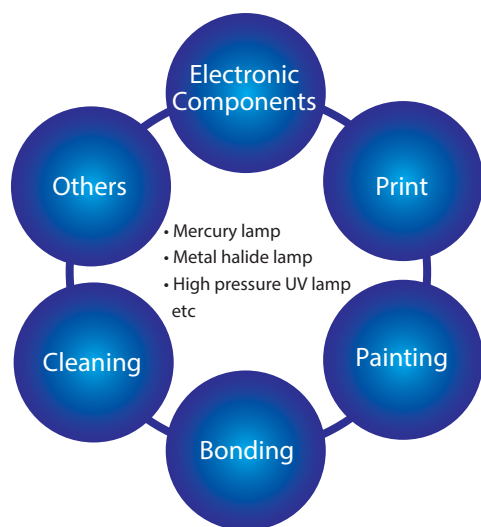
|	applications
Electronics	Marking electronic parts
	Printed board manufacturing
Printing	Printing on seals and labels
	Printing on Plastic film
Coating	Printing paper
	Molded plastics
	Steel materials (antirust painting)
	CD and DVD for coating
Bonding	Adhering chips to printed boards
	Adhering glass products
	Adhering and sealing for LCDs
	Adhesion of resin moldings
Cleaning	Improved adhesion to the print
	Improve adhesion of the resin substrate and the cloth
Others	Seal material curing
	etc

Features

Point 1

3 receiving elements

Select receiving element on purchase, automatic recognition.

- UV curing -> UD-T36T2, UD-T40T2
- UV germicidal, Cleaning -> UD-T25T2

Relative spectral sensitivity characteristics
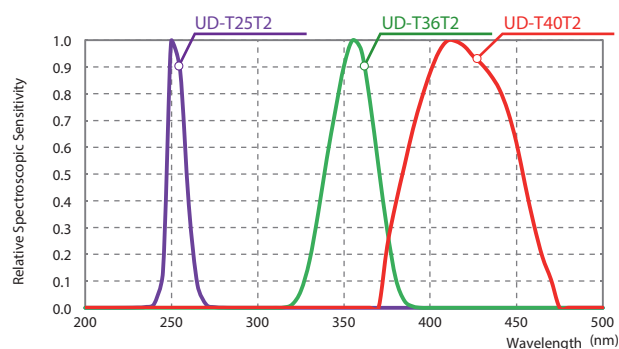
UD-T25T2   UD-T36T2   UD-T40T2

Relative Spectroscopic Sensitivity

Wavelength (nm)

Point 2 One unit 3 way measuring

Versatile enough to measure irradiance(mW/cm²), peak irradiance (mW/cm²), accumulated light amount(mJ/cm²).

Point 3 Improve ease-of-use

Auto mode equipped to be set to the optimal range in accordance with the illumination of the light source.

Point 4 Extension cable (2m)

Handy for using the photodetector and the display unit separately.

Point 5 Memory-Function & USB

Recording and saving illumination profile and analog data to built-in memory or PC.
Data sampling : 50Hz -> About 18 minutes
60Hz -> About15minutes

Point 6 USB bus power

Simple built-in by the USB power supply.

Point 7 Correction factor (C.C.F.mode)

Correction to the reference value. Eliminate the error between the device.

Point 8 Warning and alarm temperature over

Warning and alarming to the internal temperature exceeds 60℃ the internal temperature will not be available until the 40℃ or less. (Internal temperature display)

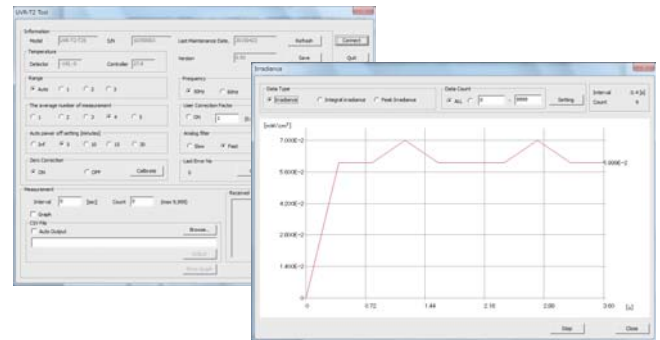**Point 9** Auto Power-off-Function

Effective / Invalid Change of an Auto Power-Off Function. (5, 10, 15, 30min.)

Point 10 Battery level indicator

In advance to inform the low battery: "BAT"
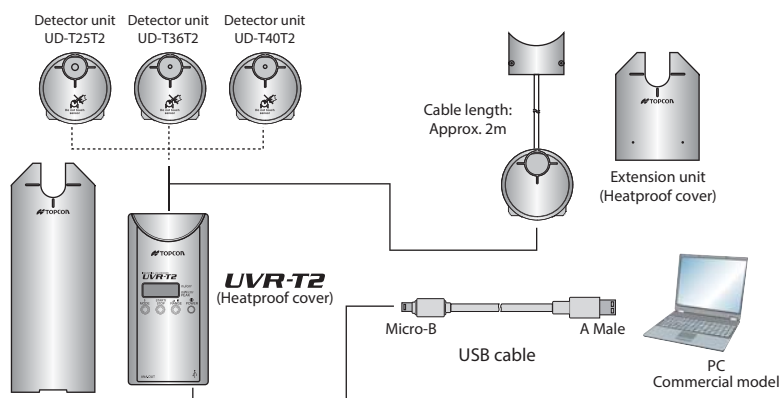
Point 11 Standard software accessory

Specified number of measurement, Arbitrary interval measurement and calibration numeric or graphical display of measurement data, file output .

OS	Windows® 7 Ultimate(32bit／64bit)
	Windows® 7 Professional(32bit／64bit)
	※XP mode in 64bitOS is not available
CPU	Pentium4 2.8GHz or grater
Memory/HDD	1GB or more
Port	USB 2.0 port（One port）
Display	1024×768 or more
Others	CD-ROM Drive

* Windows is trademark and registered trademark by Microsoft Corporation

System diagram / External dimension

Detector unit UD-T25T2
Detector unit UD-T36T2
Detector unit UD-T40T2

Cable length: Approx. 2m

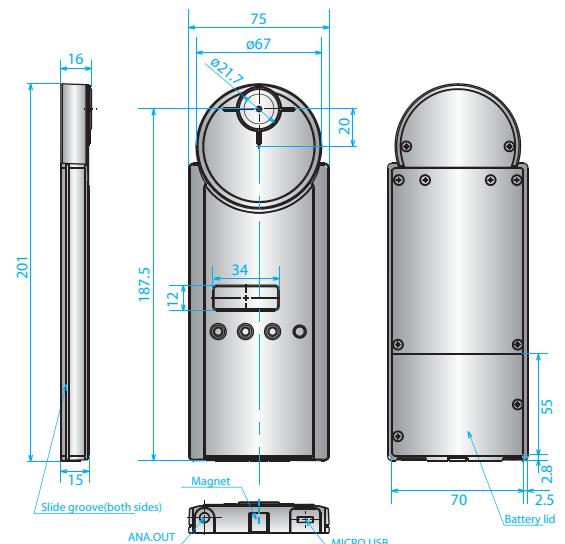Extension unit (Heatproof cover)

UVR-T2 (Heatproof cover)

Micro-B   A Male

USB cable

PC Commercial model

Detector unit types such as UD-T25T2, UD-T36T2, UD-T40T2 are available according to measurable wavelengths range, but the display unit can be used with any of them.

UVR-T2 Accessories
• UVR-T2 main body..1pcs.
• Heatproof cover...1pcs.
• Screw...4pcs.
• Analog output plug..1pcs.
• Carrying case..1pcs.
• USB cable ....1pcs.
• CD-ROM (driver/Instruction manual/Measurement program)...........................1pcs.

16
75
ø67
ø21.7
20
201
187.5
34
12
55
2.8
2.5
70
15
Slide groove(both sides)
Magnet
ANA.OUT
MICRO USB
Battery lid

SPECIFICATIONS

Detector unit	UD-T25T2		UD-T36T2		UD-T40T2	
Measurement wavelength range	230 - 280nm		300 - 390nm		350 - 490nm	
Peak sensitivity wavelength	Approx.254nm		Approx.355nm		Approx.410nm	
Irradiance (Peak irradiance) mW/cm^2	Range	Measurement range	Range	Measurement range	Range	Measurement range
	1	0.01 - 30.00	1	0.01 - 60.00	1	0.01 - 30.00
	2	0.1 - 300.0	2	0.1 - 600.0	2	0.1 - 300.0
	3	1 - 3,000	3	1 - 6,000	3	1 - 3,000
Integral irradiance mJ/cm^2	Range	Measurement range	Range	Measurement range	Range	Measurement range
	1	0.01 - 999.99	1	0.01 - 999.99	1	0.01 - 999.99
	2	0.1 - 9,999.9	2	0.1 - 9,999.9	2	0.1 - 9,999.9
	3	1 - 99,999	3	1 - 99,999	3	1 - 99,999
Analog output Irradiance for 1mV (Unit : mW/cm^2)	Range	Measurement range	Range	Measurement range	Range	Measurement range
	1	0.015	1	0.03	1	0.015
	2	0.15	2	0.3	2	0.15
	3	1.5	3	3	3	1.5
Detector element	Silicon photodiode					
Diameter of detector window	ø5mm		ø3mm			
Data sampling	50/60Hz selection type					
	Sampling time (The following table shows the Integral irradiance mode.) 50Hz -> 10ms, 60Hz -> 8.33ms					
	Sampling rate (The following table shows the Integral irradiance mode.) 50Hz -> 50times/sec., 60Hz -> 60times/sec.					
Display	5-digit LCD					
Calibration accuracy	±2% (As to value of calibration reference unit proofread by a standard light source of our company.)					
Linearity	±3% (When there are 5% or more of a full scale quantity of light in each range. And, when zero calibration is done at the instrument startup.)					
Angular incident light characteristics	30º -> Within ±5%, 60º -> Within ±25%					
Analog output voltage	0 - 2.0Vmax. (Common to each range.)					
Interface	USB2.0 (USB A connector - USB Micro B connector)					
Temperature / Humidity characteristics	Within ±4% (10 - 60ºC 23ºC is standard) / Normal to 85%R.H. (with no dew condensation)					
Power supply	LR03 (Alkaline dry battery) 3 pcs. (not included in the price) / USB bus power					
Operating conditions	Temperature 10 - 60°C / Humidity 85% R.H. or less (No dews)					
Dimensions	Approx.201×75×16mm (Detector unit is mounted/without heatproof cover), Approx.208×83×17mm (Detector unit is mounted/with heatproof cover)					
Weight	Approx.320g (Including the batteries/without heatproof cover), Approx.370g (Including the batteries/with heatproof cover)					
Calibration light source	UD-T25T2 : GL-15 UD-T36T2 : FL-20S-BLB UD-T40T2 : Standard light source A					

ISO 14001
JACO
JAPAN AUDIT AND CERTIFICATION ORGANIZATION FOR ENVIRONMENT AND QUALITY
UKAS ENVIRONMENTAL MANAGEMENT 051
EC97J1081

JCSS 0073
JCSS is the logo of the traceability system based on the Japanese Measurement Law. TOPCON TECHNOHOUSE is a certified provider optical solutions. The company's certification number is 0073. (JCSS: JAPAN Calibration Service System)

TOPCON TECHNOHOUSE has been certified as a provider of optical solutions, according to the Japanese Measurement Law.

We will issue a calibration certificate bearing the JCSS logo, which guarantees the accuracy of illuminance (illuminance meter), and luminosity (lamp) based on national standards.

*Some screens are simulated.
*The specifications and external appearances of product in this catalogue may be changed without prior notice due to improvements.
*The catalogue includes products that are sold separately.
*The actual color of products may differ slightly from the catalogue due to lighting and printing conditions.

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SAFETY PRECAUTIONS

Make sure to carefully read the "Manual" to ensure that you use the product properly and safely.
· Always connect the instrument to the specified power supply voltage.
  Improper connection may cause a fire or electric shock.
· Be sure to use the specified batteries.
  Using improper batteries may cause a fire or electric shock.

For more information please visit our website.

http://www.topcon-techno.co.jp/en/