



# UV Measuring Instrument Radiation Measuring Device

## Product Information

## UV Integrator



Model : PT-UV150

The UV Meter **PT-UV series** is a high quality UV measuring instrument. It is used to measure UV energy of different light sources, especially on printing machines. It was specially designed with a recess in the housing for better handling. It is ideal to ensure quality control of printing and drying processes. By addition of the incidence of the light quantities during the exposure cycle, relative values are calculated. Because of uneven radiation distribution of the UV light source and different type of construction of the measuring devices by different manufacturers, different readings may appear under the same measurement conditions.

TECHNICAL SPECIFICATION

General Technical Specification	
Spectral range:	UV 250 - 410 nm (standard type)
Measuring range:	0 to 5,000 mW/cm2
Display:	6-digit LCD
Display range:	0 to 999,999 mJ/cm2
Power source:	long life 3.6 V Lithium Battery
Power consumption:	100 uA
Battery service life:	10,000 hrs
Dimensions:	Refer to model type specification
Weight:	Refer to model type specification
Temperature range:	0 to 45 Centigrade
Heat protection:	Heat shield on back plate
Base Accuracy:	±5 %

This device is built to be used on UV conveyor belt dryer. By using this device, the quantity of UV radiation can be monitored, thus allowing it to compensate the loss of UV radiation caused by the aging UV lamp by reducing the speed of the conveyor.

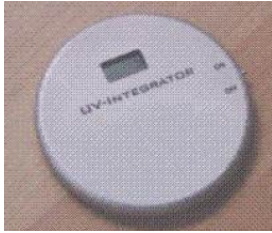
While on the conveyer belt, the **PT-UV Series** can withstand max. 110 Centigrade for up to 10 seconds. The temperature of the housing should not exceed 45 Centigrade.

Model Available
PT-UV04
PT-UV07
PT-UV12
PT-UV14
PT-UV126
PT-UV140
PT-UV150

Type of Range Available*	
Type 1 UV-D	350 – 460 nm
Type 2 UV-A	315 – 400 nm
Type 3 UV-S	250 – 410 nm (Standard)
Type 4 UV-B	280 – 315 nm
Type 5 UV-C	230 – 280 nm
<b>*Kindly Specify the type of range 1-5 require when ordering</b>	



TECHNICAL SPECIFICATION



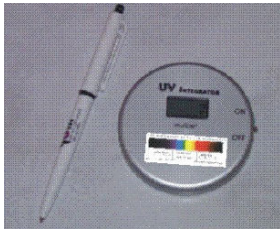
Model : PT-UV04

**PT-UV04**

**Usage:** It is used to measure UV energy of different light sources, especially on printing machines. It is ideal to ensure quality control of printing and drying processes

With its round shape and a diameter of only 4.7" (120 mm/CD size) it bears a small risk to get stuck somewhere inside. It is reliable and simple to use.

Dimensions: Ø4.7" (120 mm), height ½" (13 mm)  
Weight: approx. 9 ounce (260 grams.)



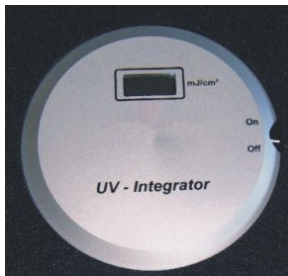
Model : PT-UV07

**PT-UV07**

**Usage:** It is used to measure UV energy of different light sources, especially on printing machines. It is ideal to ensure quality control of printing and drying processes.

With its diameter of only 2.75" (70 mm) is it one of the smallest pass-through Integrators available. Due to the round shape it bears a very small risk to get stuck somewhere inside. It is reliable and simple to use.

Dimensions: Ø2.75" (70 mm), height ½" (13 mm)  
Weight: approx. 4 ounce (120 grams.)



Model: PT-UV12

**PT-UV12**

**Usage:** It is used to measure UV energy of different light sources, especially in the CD/DVD production. It is ideal to ensure quality control of printing and drying processes.

Small size, heavy duty pass-through Integrator. With its round shape and a diameter of only 4.7" (120mm) CD size it bears a small risk to get stuck somewhere inside. It is reliable and simple to use.

Dimensions: Ø4.7" (120 mm), height ½" (12 mm)  
Weight: approx. 9 ounce (260 grams.)



TECHNICAL SPECIFICATION



Model: PT-UV14

**PT-UV14**

**Usage:** It is used to measure UV energy of different light sources, especially on printing machines. It is ideal to ensure quality control of printing and drying processes.

Big size, heavy duty pass-through Integrator with a diameter of 140 mm. It is reliable and simple to use.

Dimensions:  $\varnothing$  5.5" (140 mm) height 1/2" (13 mm)  
Weight: approx. 17.5 ounce (500 grams.)



Model: PT-UV126

**PT-UV126**

**Usage:** It is used to measure UV energy of different light sources, especially on printing machines. It is ideal to ensure quality control of printing and drying processes.

Small size, heavy duty pass-through Integrator. It is reliable and simple to use.

Dimensions: 4.5" x 2.4" x 0.5" (115 x 60 13 mm)  
Weight: approx. 8.8 ounce (250 grams.)



Model: PT-UV140

**PT-UV140**

**Usage:** Is used to measure UV energy of different light sources, especially on printing machines. It was specially designed with a recess in the housing for better handling. It is ideal to ensure quality control of printing and drying processes.

Big size, heavy duty pass-through Integrator with a diameter of 140 mm. It is reliable and simple to use.

Dimensions:  $\varnothing$  5.5" (140 mm) height 1/2" (13 mm)  
Weight: approx. 16 ounce (450 grams.)

**PT-UV150**

**Usage:** It is used to measure UV energy of different light sources, especially on printing machines. It was specially designed with a recess in the housing for better handling. It is ideal to ensure quality control of printing and drying processes. By addition of the incidence of the light quantities during the exposure cycle, relative values are calculated. Because of uneven radiation distribution of the UV light source and different type of construction of the



**PT-UV150**

measuring devices by different manufacturers, different readings may appear under the same measurement conditions.

Dimensions:  $\varnothing$ (90mm), height (12mm)  
Weight: approx. 7 ounce (150 grams.)

**Safety Note:**

Any UV lamp generates intensive short wave UV radiation. This radiation is harmful to eyes and skin. Any work or measurement on UV equipment should only be proceeding with proper PPE for eye and skin protection.

**For More Information**

For more information on our products and services, kindly send an E-mail to [sales@pinnacletech.biz](mailto:sales@pinnacletech.biz)

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