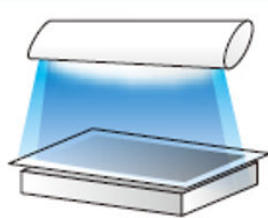


▶ **Ultraviolet Light Volume Distribution Measurement Film**

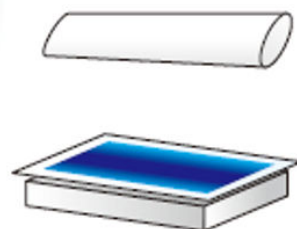
UV SCALE

▶ **What is UV SCALE?**

- Innovative light volume distribution visualization film that enables you to easily determine the ultraviolet light volume distribution by checking the change in color
- This film reacts to ultraviolet light and changes color density according to the volume of light.



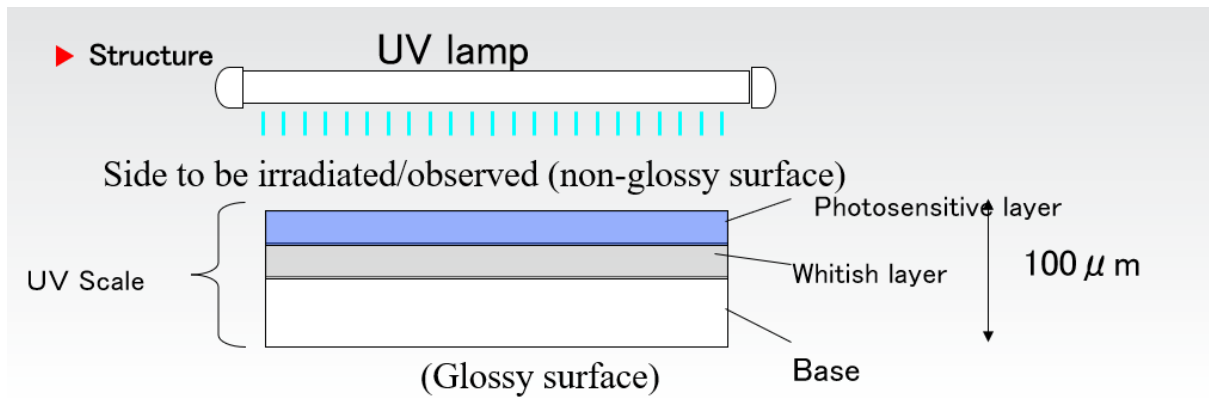
Irradiate
the ultraviolet light



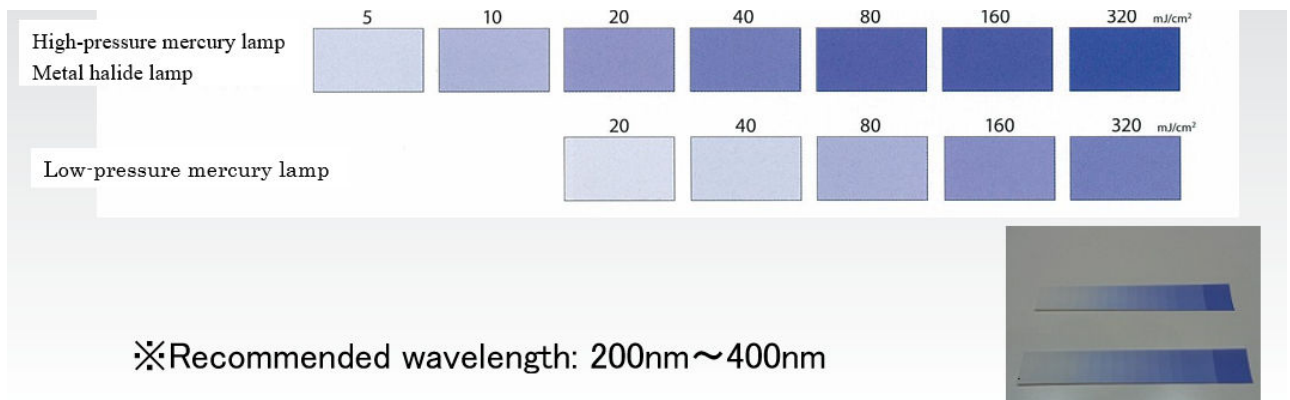
changes color



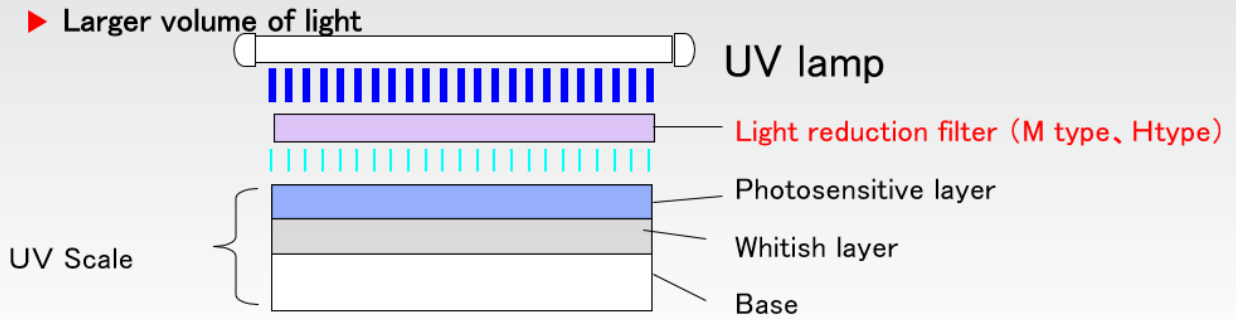
visually determine



Two materials in microcapsules.
They reacts to ultraviolet light and changes color density according to the volume of light.



When receiving the ultraviolet light, the film changes color according to the volume of ultraviolet light that is accumulated. However, note that the spectrum of the received light changes depending on the type of light source lamp, whether a filter is used, and the filter type. As a result, the film color may be different even with the same accumulated volume of light.



*** When measuring a larger volume of light (the color of the UV scale would get saturated if used alone), irradiate the ultraviolet light via a neutral density film to allow for measurement.**

▶ Specification of products and samples

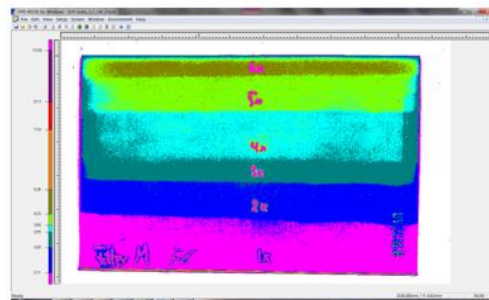
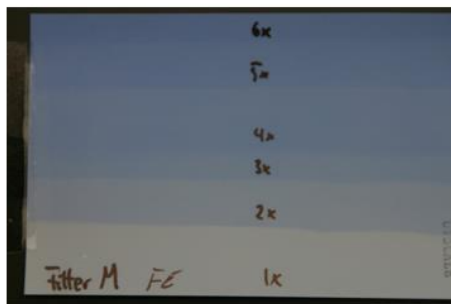
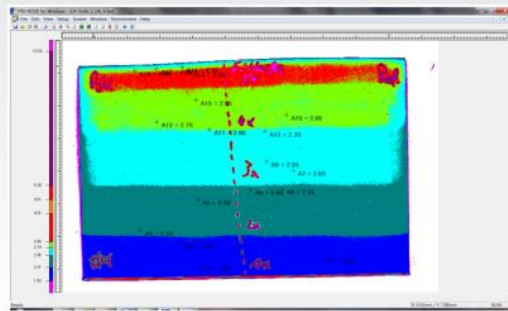
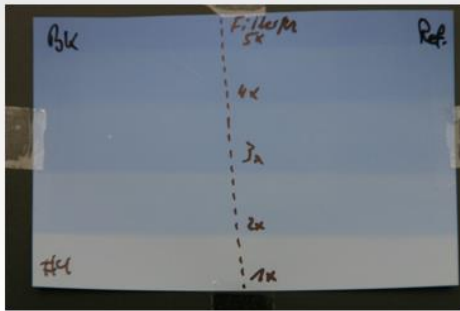
Type	UV Scale Type I
Thickness	0.1mm
Size	270mm × 200mm
No. of sheets	5 sheets

※Light reduction filter would be attached according to the requests from each customer.

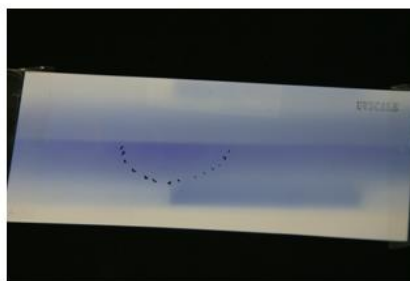
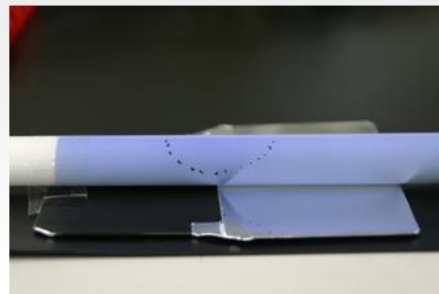
Samples

Type	UV Scale Type I
Thickness	0.1mm
Size	130mm × 100mm
No. of sheets	3 sheets
Light reduction filter	Type M : 1sheet, Type H : 1sheet

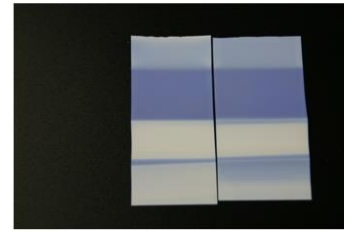
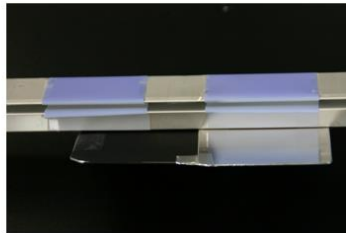
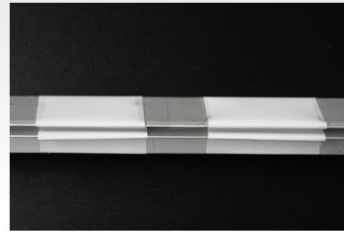
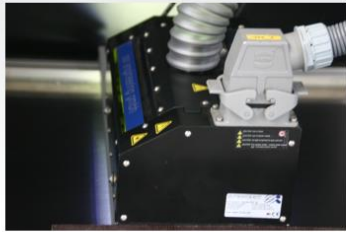
► Different UV light doses



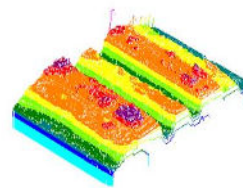
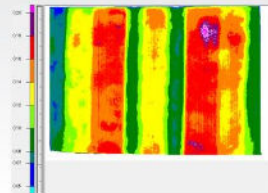
► UV-light plastic pipe



► UV-light distribution



► UV-light distribution



► Effectiveness

Improved quality

The quality can be guaranteed across the irradiated surface by measuring the light volume distribution. The location on the irradiated surface to be quantitatively measured can be properly determined by knowing the light volume distribution. This film can be also used to assess the light irradiation position using a spot light source, which was difficult in the past.

Improved workability

Research time can be reduced because measurement can be performed simply with a single sheet, without having to prepare any special equipment. Development efficiency can be also improved by reducing the test times at several levels.

Improved productivity

Yield can be improved by detecting failures due to light volume before they occur. Analysis time can be also reduced by using this data to isolate the cause due to light volume when a problem occurs. This leads to higher productivity.

