

Ultraviolet Light Amount Distribution Measurement Film

UVSCALE Application Examples

No.9

Field
Curing

Measured objects

- Cameras lenses
- Electronic components
- DVD player pickup lenses
- Hard disk components

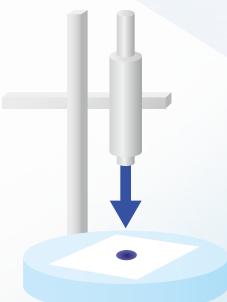
Purpose

- To check the UV light axis and area of irradiation
- To investigate UV light amount, or UV light distribution

Outline of use

- Cut the UVSCALE as required, and attach it to the area to be measured.
- Irradiate with UV, and use either visual inspection or analysis software to check UV light distribution (optical axis) or UV light amount.
- If the design specifications are not met, adjust the irradiation equipment or replace the light source (UV lamp).

[Example use 1] Checking the optical axis and UV light quantity distribution during temporary adhesion

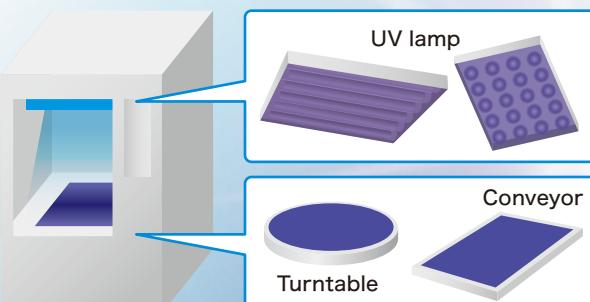


A perfect circle whose coloring is dark in the center and lighter near the periphery.



An elliptical shape or off-center coloring indicates that the optical axis may be misaligned. Lighter coloring also indicates that the light source may have deteriorated.

[Example use 2] Checking the UV amount and UV light quantity distribution produced by curing equipment.



Acceptable if the coloring is uniform.



Defective if the coloring is uneven. Coloring that is lighter than previously also indicates that the light source may have deteriorated.

Benefits of UVSCALE

- Because UVSCALE allows visualization of the optical axis during temporary adhesion, highly accurate adjustment is possible, which helps improve the low yields produced by defective adhesion.
- Improves productivity, since the amount of UV light (irradiation time) necessary for temporary adhesion can easily be checked and adjusted.
- Greatly reduces irradiation time, since the amount of UV light (irradiation time) necessary for curing can easily be checked and adjusted.

UVSCALE

Search



http://www.fujifilm.com/products/industrial_products/uvscale/

* Please note that the specifications and performance stated in this catalog may change without prior notice as a result of improvements. The diagrams used are schematic, and differ from those for actual measurements.