

Ultraviolet Light Amount Distribution Measurement Film

# UVSCALE Application Examples

**No.9** Field Curing

**Measured objects**

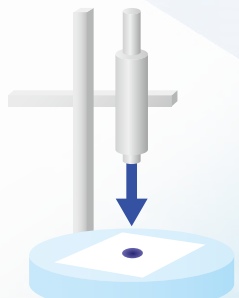
- Cameras lenses
- Electronic components
- DVD player pickup lenses
- Hard disk components

**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




**Acceptable**



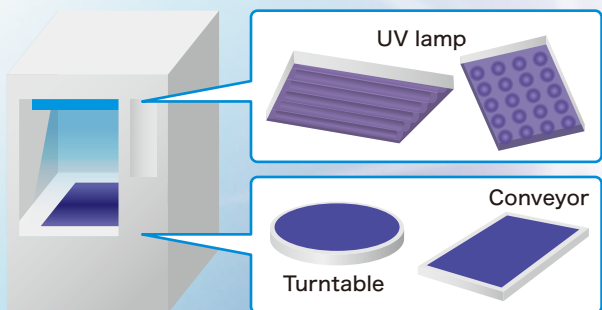
A perfect circle whose coloring is dark in the center and lighter near the periphery.

**Defective**




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**



Acceptable if the coloring is uniform.

**Defective**



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.

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