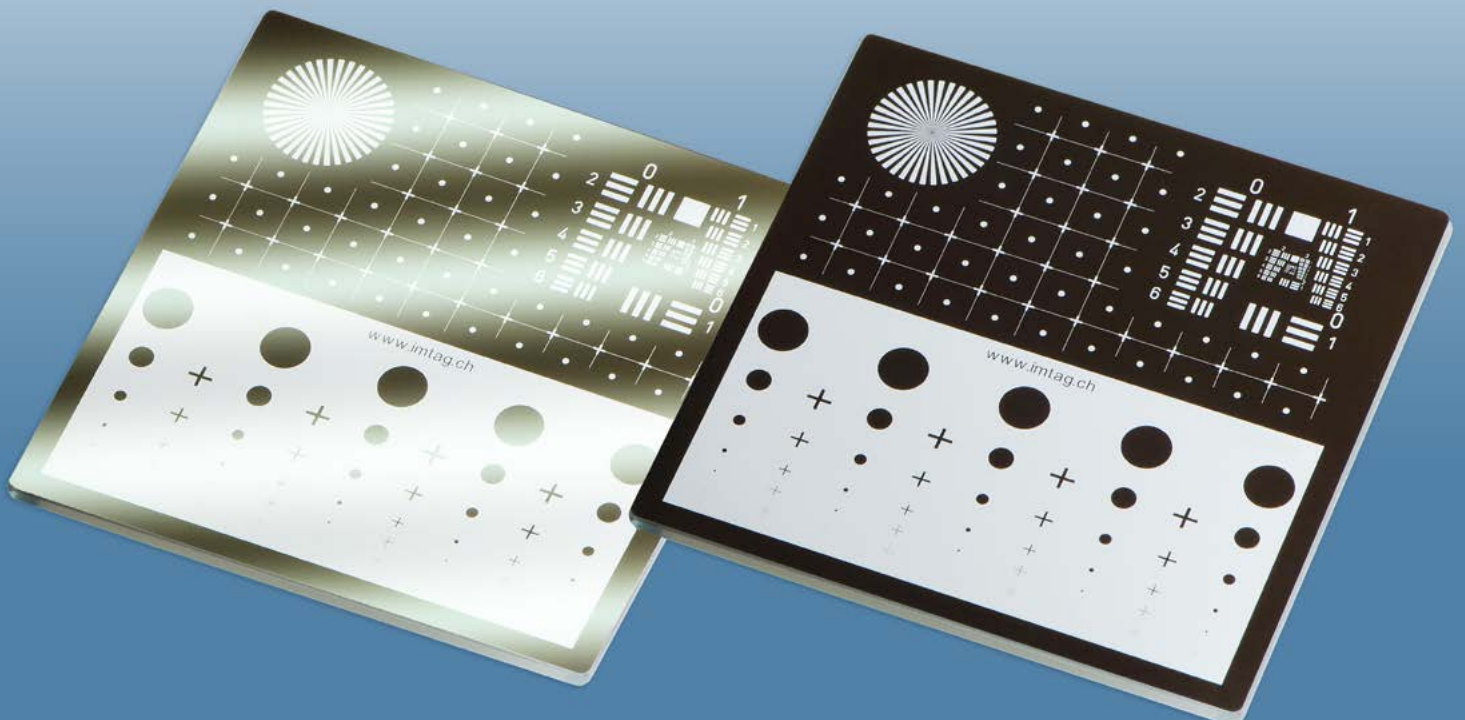
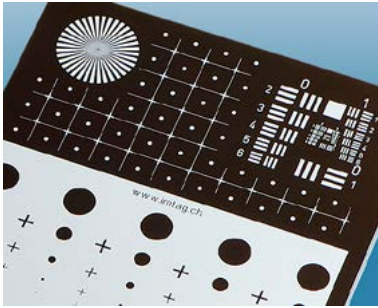


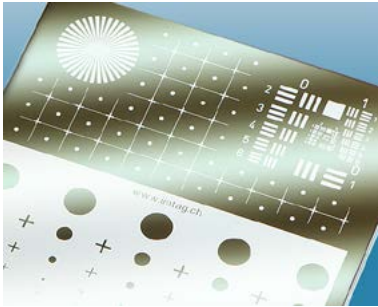
Reflexion free calibration plates

Glossy surfaces on calibration plates cause strong distortion in light intensity measurements, due to the specular reflection of the illumination source. IMT has developed a new type of calibration plate with a scattering background which shows a uniform light distribution, eliminating this glossy surface.





Reflection free



Reflective

Applications

- › Vision Systems
- › Microscopy

Benefits

- › Uniform light distribution

Technical Data

Substrate materials

- › Sodalime (CTE = 9 ppm / ° C)
- › Borosilicatglass (CTE = 3 ppm / ° C)

Dimensions

- › Sodalime: 4" x 4", 5" x 5", 6" x 6", thickness: 2 mm
- › Borosilicatglass: 5" x 5", thickness: 1.1 mm
- › Other dimensions on request

Optical properties

- › Reflection black chromium < 5 % at α 550 nm
- › Contrast = 4 α 550 nm
- › Scattering near Lambert's law
- › Roughness: $R_a = 0.45 \pm 0.15 \mu\text{m}$

Feature size

- › 20 μm

About IMT

- › Foundry for optical, electrical and micro-fluidic structures and components
- › Fast prototyping through in-house mask manufacture
- › Staff of 100 employees
- › 1300 m² clean room



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