

Mini-Diff VPro

For 2D/3D Scattered Light Measurements

Overview

3D Hemispherical Scattering Measurement, camera based.

Light Sources

3 color collimated sources: Red, Green and Blue for RGB measurements.

- Red: 630nm [$\Delta\lambda_{1/2}=25\text{nm}$]
- Green: 525nm [$\Delta\lambda_{1/2}=35\text{nm}$]
- Blue: 465nm [$\Delta\lambda_{1/2}=25\text{nm}$]

Angle of Incidence

- For reflection measurements: from 0° to 60° with 1° step
- For transmission measurements: from 0° to 60° with 1° step

Dynamic Range

- BRDF 105 and BTDF 106

BSDF Accuracy

- < 2%—For Lambertian sample (TBC after the production of the first 10 units)

BSDF Repeatability

- < 2%—For Lambertian sample (TBC after the production of the first 10 units)

Color Accuracy

- $D_{uv} < 0.1$

Angular Aperture

- -75° to +75°—Hemispherical measurement

Effective Measured Area

- $\Phi 1\text{ mm}$

Angular Resolution

- 0.5°

Output Data

- 3D BSDF, 3D Angular Resolved Scatter (ARS)

Exportation File Format

- Exportation tools available to ASTM, BSDF, Mesh, Slice, Gaussian/Lambertian fit, ABg format
- Exportation towards optical simulation software (list available under request)

Package

- Mini-Diff V-Pro measurement device
- Dark box
- User manual

Dimensions

- Dark Box : 450 mm x 600 mm x 738 mm

Weight

- Mini-Diff V-Pro device: 42 kg