

Mini-Diff VPro

For 2D/3D Scattered Light Measurements



Light Tec is now part of
Synopsys' Optical Solutions

Overview

A camera-based 3D hemispherical scattering measurement tool.

Light Sources

Three color-collimated sources: Red, Green, and Blue for RGB measurements

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

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

- Duv < 0.1



Angular Aperture

- -75° to +75°—Hemispherical measurement

Effective Measured Area

- Φ 1 mm

Angular Resolution

- 0.5°

Output Data

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

Data Exchange File Format

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

Package

- Mini-Diff VPro measurement device
- Dark box
- User manual

Dimensions

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

Weight

- Mini-Diff VPro device: 42 kg