Mini-Diff VPro
For 2D/3D Scattered Light Measurements

Overview
A camera-based 3D hemispherical scattering measurement tool.

Light Sources
Three color-collimated sources: Red, Green, and Blue for RGB measurements
- Red: 630nm [Δλ1/2=25nm]
- Green: 525nm [Δλ1/2=35nm]
- Blue: 465nm [Δλ1/2=25nm]

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
• Φ1 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