



Mini-Diff VPro

For 2D/3D scattered light measurements

Preliminary informations

Mini-Diff VPro: Preliminary Datasheet	
Description	3D Hemispherical Scattering Measurement, camera based.
Light Sources	3 color collimated sources: Red, Green and Blue for RGB measurements. <ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • For reflection measurements: from 0° to 60° with 1° step • For transmission measurements: from 0° to 60° with 1° step
Dynamic Range	BRDF 10 ⁵ and BTDF 10 ⁶
BSDF Accuracy	< 2% (For Lambertian sample) *
BSDF Repeatability	< 2% (For Lambertian sample) *
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)
Exportation File Format	<ul style="list-style-type: none"> • Exportation tools available to ASTM, BSDF, Mesh, Slice, Gaussian / Lambertian fit, ABg format • Exportation towards optical simulation software (list available under request)
Package	<ul style="list-style-type: none"> • Mini-Diff V-Pro measurement device • Dark box • User manual
Dimensions	<ul style="list-style-type: none"> • Dark Box : 450 mm x 600 mm x 738 mm
Weight	<ul style="list-style-type: none"> • Mini-Diff V-Pro device: 42 kg

* TBC after the production of the first 10 units