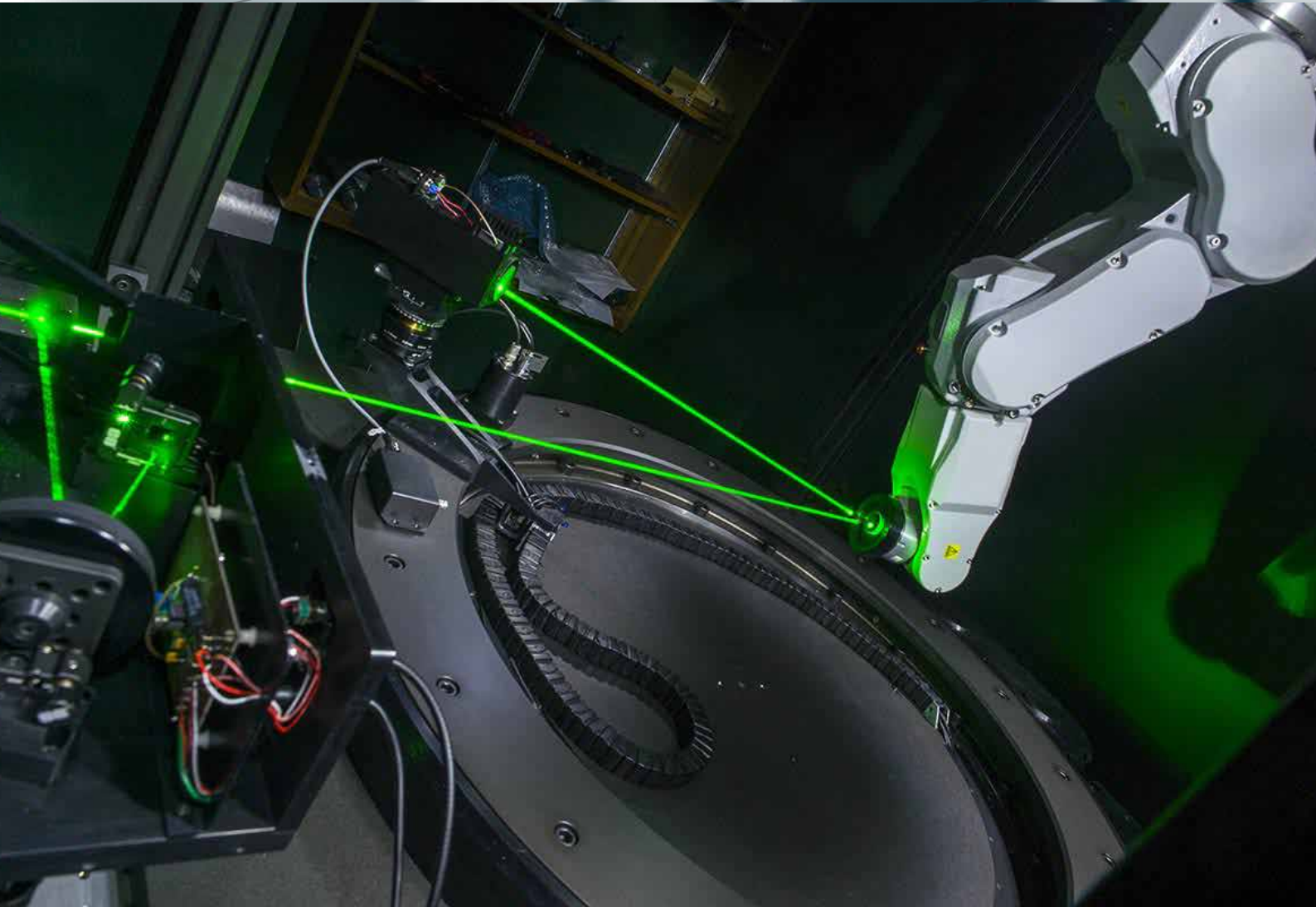


BiRT-2.0

Bi-directional Reflectance and Transmittance Distribution Function Measurement System



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BiRT-2.0

Bi-directional Reflectance and Transmission Distribution Function Measurement System



General

Unit, features	6 axis robot + slew ring for the movement Multi-ranging photometer as well as spectroradiometer for the detection Adjustable input aperture for detection optics;
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Mechanics

Slew ring	Diameter	1 m
	Angular Repeatability	0.2°
	Angular Resolution	0.01°
Robot	Type	Epson C8, 6 axis
	Position Repeatability	± 20 µm
	Angular Repeatability	0.1°
	Angular Resolution	0.01°

Light Source

Type	QH Lamp standard, others on request
Warm-up time	About 5 min
CCT	3200 K
Measurement size diameter	1 mm, 3 mm or 10 mm interchangeable

Sensors

PH-1L Laboratory Photometer	V(λ) matching, f_1'	≤ 1.5 %
	Linearity, f_3	≤ 0.1 %
	Fatigue, f_5	≤ 0.1 %
	Amplifiers	4 amplifiers, for a large dynamic of 10^{10}
Colour Measurement with SP-4C Spectroradiometer	Spectral Range	360-830 nm (other options in the UV/NIR regions are available upon request)
	Results	x, y, u' , v' , CCT, D_{uv} , R_a , R_f

Others

Software	Software control and coordination of all measurement functions. Results are the complete BSDF in grey scale (spectrally-resolved optional)
Calibration	Absolute self-calibration reference standard reflectance tiles with ISO 17025 calibration certificate optional

As part of its ongoing research and development process, PSI reserves the right to change specifications without notice.