

Reflection Measurement Systems

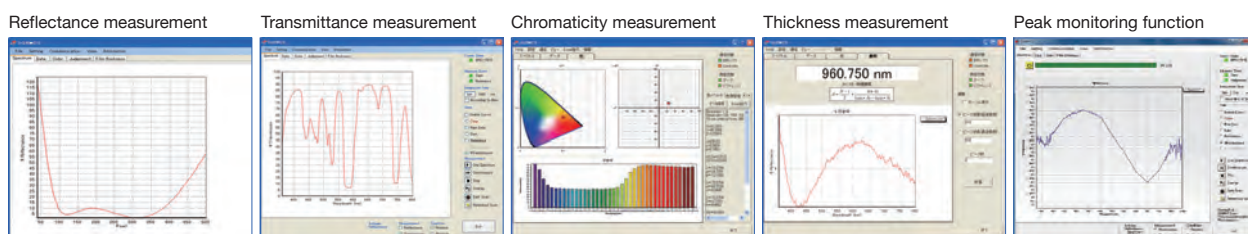
SGRM-200N

CE

This device allows the measurement of spectral reflectivity in fine areas and curvature surfaces. For lenses with curvature or ultra-thin samples such as functional sheets, high-speed and high-accuracy measurement of spectral reflectivity can be realized without being affected by reflected light on the rear surface.

- With a special half mirror, allows efficient reflection of light into the spectrophotometer and fast measurement even at the low reflection samples.
- With a special half mirror, prevents reflection from the rear surface and allows accurate measurement without any treatment for the sample rear surface. (can measure for thin plate thickness of 0.3mm when using 20x objective lens)
- Maximized the amount of light by special halogen lamp and unique optical design, allows speedy and high reproducibility measurement.
- With very tiny area ($\phi 50\mu\text{m}$) measurement, allows measurement of curvature lens surface and coating uniformity.
- Compact design for a space saving.
- Data to be saved to Microsoft® Excel® spreadsheet.
- Multiple measurement results can be overlaid for easy comparison. Fast analysis for good and bad.

Measurement Result Display Image



Specifications

Part Number	SGRM-200N
Wavelength Range	380 – 1050nm
Object Side N.A.	0.22 (When using 10× objective lens) 0.44 (When using 20× objective lens)
Measurement Area	about $\phi 25\mu\text{m}$ (When using 10× objective lens)
Measurable Surface Curvature of Object	$-2R - \infty, +2R - \infty$
Measurement Reproducibility	$\pm 0.2\%$ (380 – 450nm) $\pm 0.02\%$ (451 – 950nm) $\pm 0.2\%$ (951 – 1050nm)
Readable Resolution	1nm
Measurement Time	a few seconds (depends on the sampling time)
Outer Dimension (Main unit)	270(W) × 465(D) × 615(H)mm (excluding protrusions)
Operating Temperature	18 – 28°C
Ambient Humidity	$\leq 60\%$ (Non-condensing)

Application Systems

Optics & Optical Coatings

Opto-Mechanics

Bases

Manual Stages

Actuators & Adjusters

Motorized Stages

Light Sources & Laser Safety

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Microscope Unit

Alignment

Interferometers

Inspection/ Observation

Bio-photonics

Laser Processing

Objective Lens (Standard accessories)		(Option)
Objects Lens UPLFLN10x	Objects Lens LUCPLFLN 20x	Objects Lens PLAPON 1.25x
		
Measurement range: $\phi 50\mu\text{m}$ Thin plate: 0.4mm	Measurement range: $\phi 25\mu\text{m}$ Thin plate: 0.3mm	Measurement range: $\phi 400\mu\text{m}$

Standard Diffusing Reflector	Optical Color Glass
WS-3 (Option)  *as a standard when measuring the color	V-30 (Option)  *calibration data included

Super C Mount Zoom Adapter	5.0 Mega-pixels USB Camera
NY-CZ (Option) ($\times 0.35 - \times 0.7$) 	STC-MCA5MUSB3 (Option) 



Reflection Measurement Software: SGRMCS (Standard accessories)

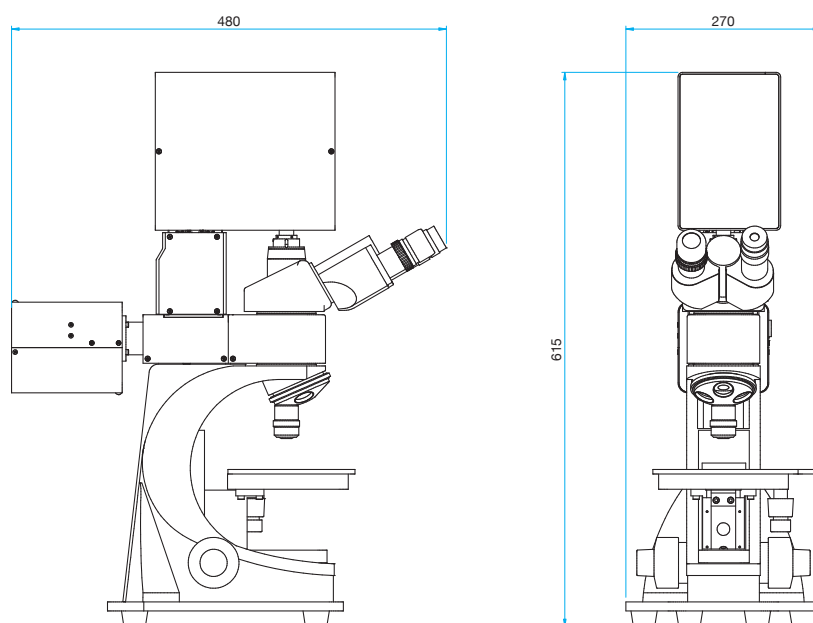
- High-precision measurement of thin target (Software and Hardware)
- Measurement data overlay function (MAX 64 times)
- Data export function in Microsoft® Excel®
- Good/Bad analysis function (set by each 1nm wavelength)
- Film thickness measurement function (single layer only)

Service parts (Standard accessories)

Halogen lamp (5 pcs set) PCL919SMR02VN 	Low reflection rate reference plate Plano Concave Lenses SLB-50-70N 	High reflection rate reference plate Aluminum Mirrors TFA-50C08-1 
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Outline Drawing

(in: mm)



Weight: 13kg(cables excluded)