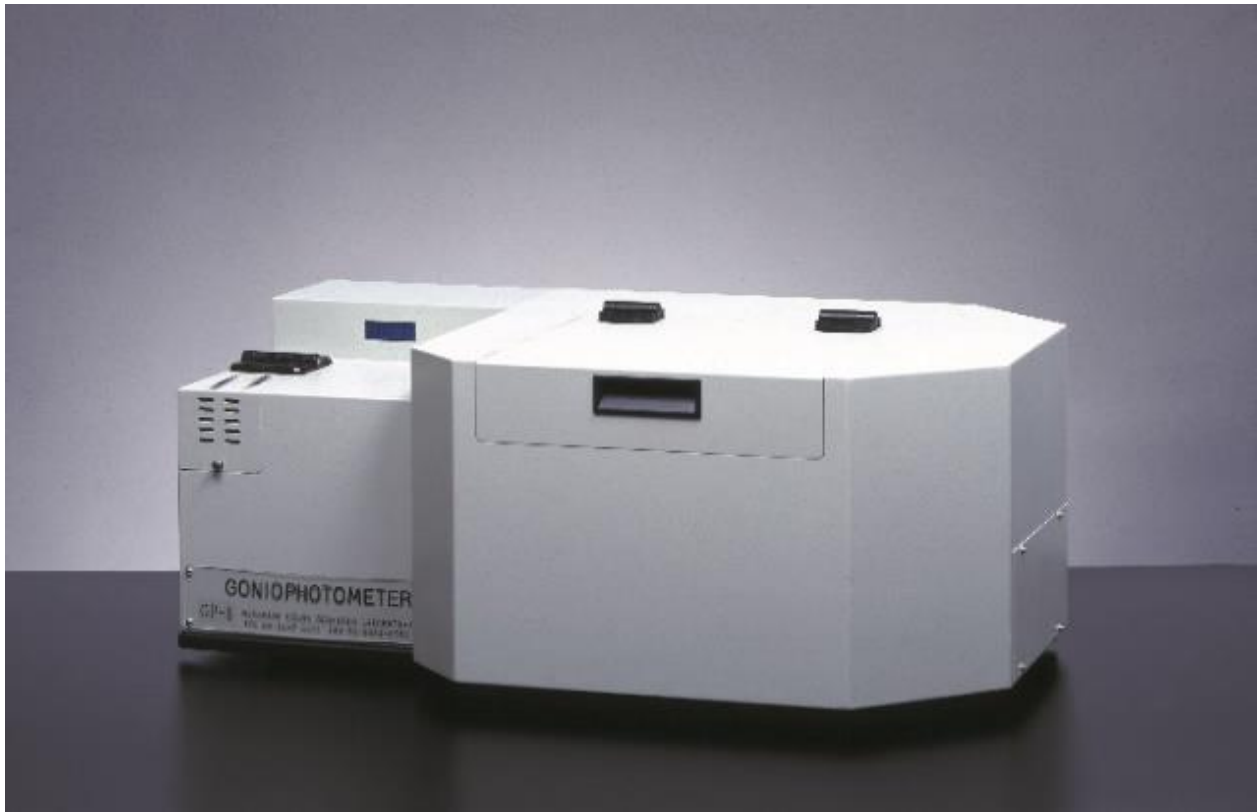


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GONIOPHOTOMETERS

GP-5



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GP-200





GP-700

GP-5, GP-200 & GP-700

The goniophotometers are designed to reveal the optical properties of reflective and transmissible materials. Such properties can be achieved by analysis of the intensity distribution of reflected or transmitted light. The instruments make this analysis by the independent change of illumination and receiving angle. Goniophotometers serve as indispensable tools in industrial and scientific research of the structure of polymeric materials, and the control of optical density and surface properties. Included software performs complete instrument control as well as data processing and visualization of the results.

Applications

- Analysis of the properties of the transmitted light for plastics or glass
- Measurement of the roughness of metals or paints
- Analysis of the optical properties of materials with magnetic paints
- Analysis of the properties of paper
- Analysis of the optical properties of hair
- Investigation of the optical appearance of wood
- Evaluation of surface properties of high gloss materials
- Investigation of the optical appearance of textile or fabrics
- Measurement of the properties of transmittance for diffuser, prism sheet and polarized film of LCD back light.

Specifications

	GP-5	GP-200	GP-700
Light source	Halogen 12V/50W	Halogen 12V/50W	Halogen 12V/50W
Receptor	Silicon Photodiode	Photomultiplier	Photomultiplier
Source iris	5 mm diameter	2 to 20 mm diameter variable	2 to 20 mm diameter variable
Receptor aperture angle	3°	0.5° to 2.9° variable	0.5° to 2.9° variable
Receptor angular resolution		0.1°(Absolute encoder's)	0.1°(Absolute encoder's)
Incident angle	Manually-adjusted	Manually-adjusted	Automated-adjusted
Specimen table inclination angle	0 to 15°manually-adjusted	0 to 20°manually-adjusted	0 to 10°manually-adjusted
Receptor rotation angle	180°±0.3° automatically-adjusted	180°±0.3° automatically-adjusted	180°±0.3° automatically-adjusted
Photometric accuracy	Within ±2% full scale		
Repeatability	Within ±2%		

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Sample size range	min 50 x 50 mm max 90×110 mm max thickness 8 mm	min 50 x 50 mm max 130×110 mm max thickness 10 mm	min 40 x 50 mm max 120×130 mm max thickness 10 mm
Power consumption	300W approx., 100V AC	300W approx., 100V AC	400W approx., 100V AC
Dimensions	Overall L 465× W 760×H 340 mm	(BODY) L 810× W 720×H 540 mm (LIGHT SOURCE UNIT) L 210 ×W 510 ×H 150 mm	(BODY) L 710 ×W 1200×H1260 mm (Instrument's occupation Area) 1500×800 mm
Weight	approx. 50 kg	approx.80 kg	approx. 100 kg
Options		(Optical units) Polarization unit, laser, interference filter, others (Sample stage) Moving on X-axis sample rotation with inclination and table for hair measurement	(Optical units) Polarization unit, laser, interference filter, others (Sample stage) Moving on X-axis sample rotation with inclination and table for hair measurement

Installation and training at site is included in price of purchase.

In the USA, contact:
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