

Spectrophotometer Photon RT

The spectrophotometer Photon RT is designed for automatic measurement of the reflection and transmission of optical coatings for p- and s- polarisations of light beams under the incident angles from 0° up to 75° (transmission) and from 8° up to 75° (reflection) in the wavelength range from 185nm up to 5200nm without manual adjustment of the measured plane samples with the size up to 152.4mm as well as cubes and prisms with complicated forms with size up to 50mm. The software and its mathematical algorithms allow to derive the spectral characteristics of the refractive indices and absorption coefficients of the glass substrates and coating layers as well as the thicknesses of the coating layers.

available spectral ranges:	185-1700nm 185-3500nm 185-5200nm 380-1700nm 380-3500nm 380-5200nm
photometric functions:	absolute transmission and reflection for p- and s- polarisations
variable angle measurements:	0° - 75° (transmission) 8° - 75° (reflection) up to 85° optional
optical density:	up to OD4
min. clear aperture of sample:	6mm x 2mm
beam displacement compensation:	+/-60mm (depends on AOI)
wavelength resolution:	0.6nm up to 990nm 1.2nm up to 2450nm 2.4nm up to 5200nm
wavelength accuracy:	+/-0.24nm up to 990nm +/-0.48nm up to 2450nm +/-0.96nm up to 5200nm
repeating accuracy:	+/-0.12nm up to 990nm +/-0.24nm up to 2450nm +/-0.48nm up to 5200nm
scanning speed:	600 wavelength points per minute
angle resolution:	0.01°
max. plane sample size:	CA 120mm (up to 152.4mm possible)
max. cube / prism size:	50x50x50mm (up to 152.4mm possible)
device size:	up to 425x625x285(height)mm
device weight:	up to 50kg
power input:	110/220V, 50/60Hz

