

Spectrophotometer Linza 150

The spectrophotometer Linza 150 is designed for automatic measurement of the reflection and transmission of optical coatings on lenses and lens assemblies for p- and s- polarisations of light beams in the wavelength range from 185nm up to 1700nm without manual adjustment of the measured samples with concave or convex surfaces with the size up to 120mm (reflection) or up to 150mm (transmission). The samples may be single lenses with curvature radii $<-10^\circ$ or $>+10^\circ$ as well as lens assemblies with focal lengths $<-15\text{mm}$ or $>+15\text{mm}$. 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 380-1700nm
photometric functions:	absolute transmission and reflection for p- and s- polarisations
lens diameter, mm	transmittance: 10-150mm reflectance: 10-115mm
reflectance measurement lens radius:	$-10\text{mm} \dots \infty / +10\text{mm} \dots \infty$
transmittance measurement focal length :	$-20\text{mm} \dots \infty \dots +20\text{mm}$
max. lens tilt angle: (off-axis)	50°
angle of incidence: (on-axis/off-axis)	12°
min. clear aperture of sample:	6mm x 2mm
ultimate spectral resolution:	2nm for 185-990nm 4nm for 990-1700nm
wavelength accuracy:	$\pm 0.5\text{nm}$
repeating wavelength accuracy:	$\pm 0.25\text{nm}$
scanning speed, nm/min:	3000 (at 5 wavelength sampling pitch)
wavelength sampling pitch, mm:	0.5 - 100
lens assembly dimensions,mm:	150 x 240 (W x L)
device size:	680mm x 440mm x 360mm (W x D x H)
device weight:	50kg
power input:	110/220V, 50/60Hz

