

LINZA 150

SPECTROPHOTOMETER FOR LENS MEASUREMENT



TRANSMITTANCE
OF LENSES



TRANSMITTANCE
OF LENS
ASSEMBLIES



REFLECTANCE
OF LENSES



TYPES OF LENSES:

- CONVEX
- CONCAVE
- CYLINDRICAL
- ASPHERIC

DIAMETER OF LENSES:

10 - 150 MM

**UNATTENDED MEASUREMENT OF REFLECTANCE
AT ANY POINT OF LENS SURFACE**

SPECIFICATIONS

PARAMETER	DESCRIPTION
SAMPLE COMPARTMENT	
Lens diameter, mm	Transmittance: 10 - 150 mm Reflectance: 10 - 90 mm (self-centering lens mount) 10 - 115 mm (customized lens holder)
Reflectance measurement	Lens radius: -15 mm ... ∞ / +15 mm ... ∞
Transmittance measurement	Focal length: -20 mm ... ∞ ... +20 mm
Lens assembly dimensions, mm *	W 150 x 240 (L)
Sampling pitch for determination of measurement point on lens surface (off-axis reflectance measurement), mm	0,01
Maximum lens tilt angle (off-axis reflectance measurement), deg	55
Angle of incidence (on-axis / off-axis reflectance measurement), deg	12
OPTICAL CONFIGURATION	
Effective wavelength range, nm	380 - 1700, 185 - 1700
Optical scheme of monochromator	Czerny-Turner
Optics	Mirror, Al + SiO ₂ , Al + MgF ₂
Reference channel	Yes
Wavelength sampling pitch, nm	0,5 - 100
Wavelength scanning speed, nm/min	3 000 (at 5 wavelength sampling pitch)
Spot size on measured sample, mm	Transmittance: 4,0 x 2,5 mm Reflectance: 1,0 x 1,0 mm
Photometric functions	%T, %R
Ultimate spectral resolution, nm	
185 (380) – 990 nm	2,00
990 – 1700 nm	4,00
Wavelength accuracy, nm	0,5
Wavelength repeat accuracy, nm	+/- 0,25
Scattered light level, % max (@ 532 nm)	< 0,1
Photometric accuracy	NIST SRM 930: +/-0.003 Abs (1 Abs) NIST SRM 1930: +/-0.003 Abs (0.33 Abs); +/-0.006 Abs (2 Abs)
Photometric repeat accuracy	NIST SRM 930: 0.0006 Abs (1 Abs) NIST SRM 1930: 0.0002 Abs (0.33 Abs); 0.005 Abs (2 Abs) Determined using 0,1 second accumulation, maximum deviation for 10 subsequent measurements
Stability of baseline (UV-VIS), %/hour *	< 0,1
Light sources	Halogen lamp, Deuterium lamp, HgAr wavelength calibration verification lamp
INTERFACE, DIMENSIONS AND WEIGHT	
Interface	USB 2.0
Power consumption, Watt	110
Power input	110-220 VAC, 50-60 Hz
Width x Depth x Height, mm	680 x 440 x 360 [26 3/4" x 17 1/3" x 14 1/5"]
Net weight, kg	50
* 30 minutes warm-up time	