

LINZA 150

HIGH-PERFORMANCE SPECTROPHOTOMETERS FOR OPTICS



TRANSMITTANCE
OF LENSES



TRANSMITTANCE
OF LENS
ASSEMBLIES



REFLECTANCE
OF LENSES



Lambda

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TYPES OF LENSES:

- CONVEX
- CONCAVE
- CYLINDRICAL
- ASPHERIC
- MULTI-LENS ASSEMBLIES

DIAMETER OF LENSES

- 10 - 150 mm

WAVELENGTH RANGE

- 185 - 1700 nm

SPECIFICATIONS

PARAMETER		DESCRIPTION	
MODEL	0217	0417	
OPTICAL CONFIGURATION			
Photometric functions	%T, %R		
Effective wavelength range, nm	185 - 1700	380 - 1700	
Optical scheme of monochromator	Czerny-Turner		
Optics	Mirror, Al + MgF2		
Reference channel	Yes		
Wavelength scanning speed, nm / min	3000 (at 5 nm wavelength sampling pitch)		
Spot size on measured sample, mm	Transmittance: 6,0 × 5,5 mm Reflectance: 1,0 × 1,0 mm		
Wavelength sampling pitch, nm	0,25 - 100		
Ultimate spectral resolution, nm 185 (380) - 990 nm 990 - 1700 nm	2,00 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 (1Abs) NIST SRM 1930: +/- 0,003 Abs (0,33 Abs); +/- 0,006 Abs (2 Abs)		
Photometric repeat accuracy	NIST SRM 930: +/- 0,0006 Abs (1Abs) 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	Deuterium lamp, Halogen lamp, HgAr wavelength calibration verification lamp	Halogen lamp, HgAr wavelength calibration verification lamp	
SAMPLE COMPARTMENT			
Lens diameter, mm	Trasmittance: 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 of the measured sample: -∞ ... - 20 mm / + 20 mm ... +∞		
End to end maximum length of the lens assembly, mm	240		
Sampling pitch for determination of measurement point on lens surface (off-axis reflectance measurement), mm	0,01		
Angle of incidence (on-axis / off-axis reflectance measurement), deg	12		
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 (inches)	680 × 440 × 360 (26 3/4" x 17 1/3" x 14 1/5")		
Net weight, kg (lbs)	50 (110)		