ESSENT OPTICS

OUTSTANDING SPECTRAL MEASUREMENTS OF OPTICAL COATINGS

LINZA 2752

MWIR SPECTRAL MEASUREMENTS OF LENS AND LENS ASSEMBLIES

TRANSMITTANCE OF LENSES

TRANSMITTANCE OF LENS ASSEMBLIES

TYPES OF LENSES:

- CONVEX
- CONCAVE
- ASPHERIC

DIAMETER OF LENSES

- 10 - 200 mm

SPECIFICATIONS

PARAMETER	DESCRIPTION
OPTICAL CONFIGURATION	
Photometric functions	%T
Effective wavelength range, nm	2700 - 5200
Optical scheme of monochromator	Czerny-Turner
Optics	Mirror: Al + MgF_2, Lenses: CaF_2
Reference channel	Yes
Wavelength sampling pitch, nm	0,5 ... 100,0
Wavelength scanning speed, nm/min	3000 (at 5 wavelength sampling pitch)
Spot size on measured sample, mm	6,0 x 5,5
Spectral resolution, nm*	2,0
Wavelength accuracy, nm	1,0
Wavelength repeat accuracy, nm	+ / - 0,5
Scattered light level, % max	0,2 %
Photometric accuracy**	NRC NG11 SRM; +/-0,06 Abs (0,13 Abs); +/-0,0043 Abs (0,49 Abs); +/-0,0031 Abs (0,82 Abs); +/-0,002 Abs (1,0 Abs)
Photometric repeat accuracy**	NRC NG11 SRM; +/-0,0033 Abs (0,13 Abs); +/-0,0028 Abs (0,49 Abs); +/-0,0012 Abs (0,82 Abs); +/-0,0011 Abs (1,0 Abs)
Stability of baseline, %/hour**	+/-0,3
Light sources	IR lamp
SAMPLE COMPARTMENT	
Maximum lens diameter, mm	200
Minimum lens diameter, mm	10
Lens focal length, mm	-20 ... +20
End to end maximum length of the lens assembly, mm	680
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)	1060 x 410 x 420 (41,73" x 16,14" x 16,53")
Net weight, kg (lbs)	69 (152)

* provided for optimal signal-to-noise ratio
** after 1 hour warm-up time

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