

Specification

for Cell-gap Measurement System "CGMS-150"

ITEMS		SPECIFICATION	REMARK
Resolution (μm)		Empty Cell-Gap : $d < 0.02$ Filled Cell-Gap : $\Delta n d < 0.003$	
Measurement wavelength range (nm)		450 ~ 800	
Light Source	Type	Halogen lamp (20W)	Life time > 1500 hr
	Beam size (mm)	Under 2	
	Beam divergence (deg)	Under 6	
Spectrometer	Detector	2048-element linear silicon CCD array	
	Sensitivity (estimate)	86 photons/count; also, 2.9×10^{-17} joule/count 2.9×10^{-17} watts/count (for 1-second integration)	
	Resolution (nm)	~ 1 FWHM (depends on groove density of grating and diameter of fiber or width of slit)	
Polarizer	Type	Sheet type	
	Extinction ratio	10^{-4}	
Measurement time (sec)		Under 2	
Sample	Gap variation	1 Newton ring /mm	
	Size	General: Diagonal size 17" VA mode: 40-mm $\times$ 40-mm	
Control PC		Pentium IV (2.4 GHz) 17" TFT-LCD OS: Windows XP	
Training		1 Day	
Delivery		3 Months	
AS		1 Year	

* Specifications may be changed without notification.