

# Specification

for LCD optical design system "LODS-100"

ITEMS		SPECIFICATION	REMARK
Measurement item		Optical characteristics	Retardation plate Tr/Ref LC cell
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, $2.9 \times 10^{-17}$ joule/count $2.9 \times 10^{-17}$ 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 polarizer	
	Extinction ratio	$10^{-4}$	
1 point measurement (sec)		Under 2	
Sample	Gap variation	1 Newton ring /mm	
	Size	General: Diagonal size 17" VA mode: 40-mm × 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.