Specifications

Product No.		AL100	AL110
Liquid-Crystal Display (LCD)		4.3" touch panel	
Device Measuring Function		Luminance, Color Temperature (CCT, Duv), Purity, Spectral Radiance, XYZ Tristimulus, Peak Value, General Color Rendering Index (Ra), Color Rendering Index (CRI) R1-R15, Chromaticity Coordinates CIE1931(x,y)/CIE1976 (u',v'), Spectrum, Single Wavelength (nm)	
Measurement Method		Contact or Distance (within 20mm）	
Numerical Aperture (NA)		5°	
Measurable Luminance Range		0.5~60000 cd/㎡(nit)	1~200K cd/㎡(nit)
Repeatability (2σ) (Standard Illuminant A)	Luminance	0.3% (10~50000 cd/㎡(nit))	1% (10~150000 cd/㎡(nit))
	Chromaticity	x:0.00015 y:0.00015	
Accuracy (Standard Illuminant A)	Luminance	3%	
	Chromaticity	0.002（illuminant at least 10 cd/㎡ (nit) or above)	
Spectrum Measuring Range		380nm~780nm	
Spectral Resolution (FWHM)		5.5nm	3nm
Measuring Time		1ms~60s	
Dimensions (L/W/H)mm		184×97×32mm (diameters: lens hood, 32mm; lens sleeve, 7mm)	
Over-Exposure Warning		Presented in Red Digits of Luminance	
Storage		SD Card	
Device Calibration		RGB Calibration, Spectrum Calibration	
Gauge Mounting Aperture		M6、¼ 20UNC	
Weight		500g (metal), 330g (strengthen plastic)	
Battery Capacity		2850mAh	
Operation/Storage Environment		0℃~40℃<80% RH ;-10℃~60℃ <70%RH	
Accessories		Lens Cap, USB Cable, Recharge Socket, Crashproof Package, 8GB SD Card	
Software Display (ASR)		Luminance, Color Temperature (CCT, Duv), Purity, Spectral Radiance, XYZ Tristimulus, Peak Value, General Color Rendering Index (Ra), Color Rendering Index (CRI) R1-R15, Chromaticity Coordinates CIE1931(x,y)/CIE1976 (u',v'), Spectrum, Single Wavelength (nm)	
Software Advanced Functions		Uniformity, Color Gamut (NTSC, AdobeRGB, sRGB, Rec2020), Gamma Correction (255)	
SDK Syntax		Support VC、VB SDK	
Additional Function		Allow Measurement through USB Cable Connecting with ASR Software in PC	

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AL100
AL110
SPECTRORADIOMETER

AL100/AL110

SPECTRORADIOMETER

Ideal Smart Device for Measuring Spectrum, Luminance and Chromaticity Coordinates

Wide Range of Measurement

- AL100 Luminance measuring range: 0.5~60K cd/m²(nit)
- AL110 High luminance measuring range: 1~200K cd/m²(nit)

Fast Measurement

- Auto measuring time 1ms~3000ms
- Manual measuring time up to 60sec

Contact / Distance Measurement

- Allows measurements taken in bright or dark room
- Easy to perform timely measurement

4.8hr High Capacity Lithium Battery

- 2850 mAh battery power
- Fulfils continuous measurement up to 4.8 hours

SD Card Storage

- Allows immediate data storage
- Expandable capacity through SD card selection
- Easy to download files with ASR softwares

Handheld Design

- Adopts MEMS spectral technology
- Compact design and easy to use
- Smart portable design with weight only 500g

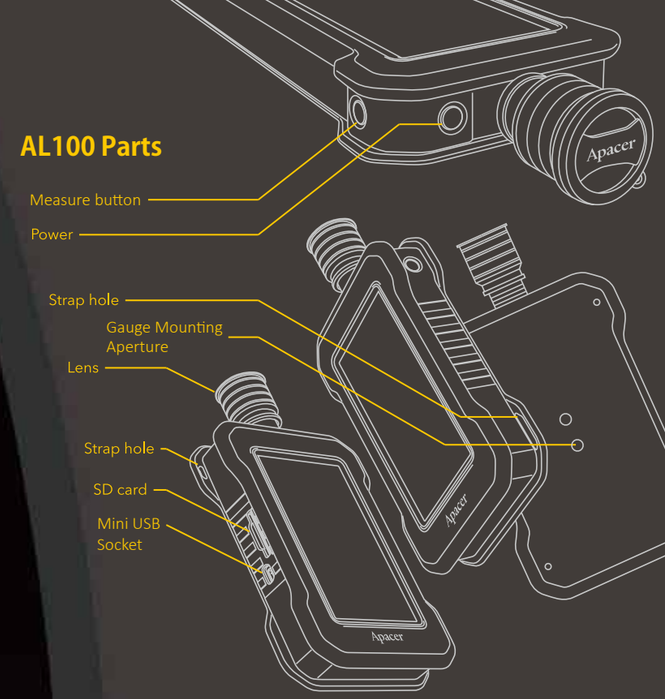
Data Visualization and Graphed Information

- Various graphics and features display: CRI, Chromaticity Coordinates CIE 1931(x , y), CIE 1976 (u' , v') and spectrogram etc.

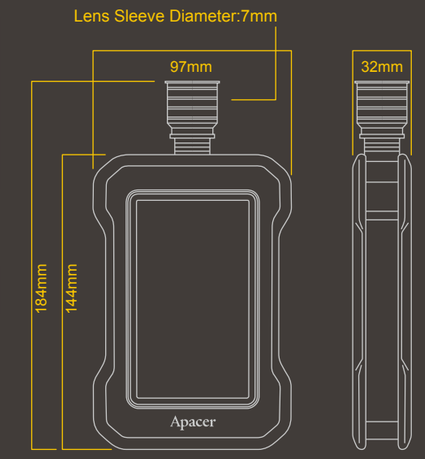
ASR Software

- Supports Microsoft Windows
- Easy to collect data via computer operation
- Clear illustrations of luminance, chromaticity coordinates, and spectral distribution etc.
- Simple customization is available for QC or production demands

AL100 Parts



Dimensions

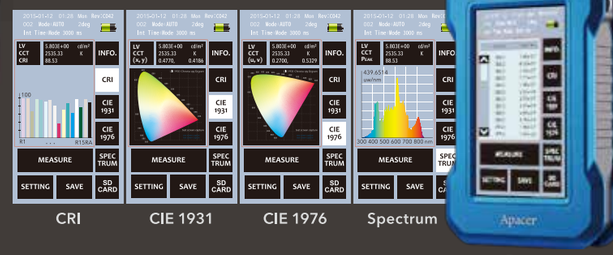


Main function

Suitable for measuring diverse panels, displays and TV etc.

TV LCD Notebook Smartphone

Standard ASR software provides clear display of measurement data



CRI CIE 1931 CIE 1976 Spectrum Data