

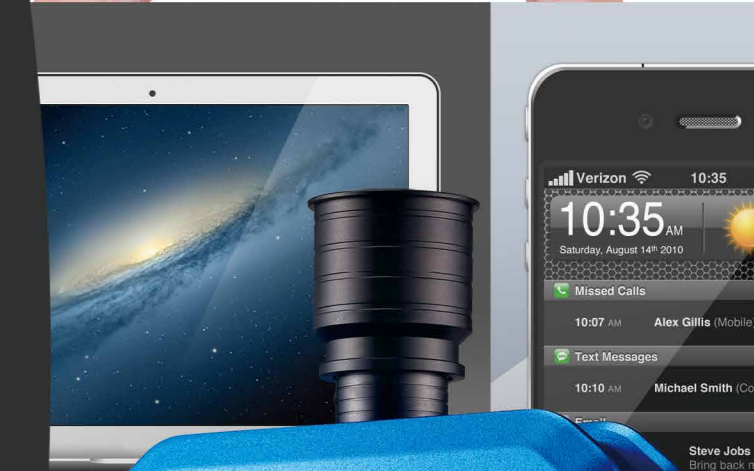
## Specifications

Display	4.3" touch panel	
Measuring function	Luminance、Color Temperature(CCT、Duv)、Spectral Radiance、Color Rendering Index(CRI)、Chromaticity CIE1931 x,y/CIE1976 u',v'、spectrum(380-780nm)(optical 340-850nm)	
Measuring range	0.5 to 60K cd/m <sup>2</sup> (Nit)	
Measuring angle	5°	
Repeatability (Standard light source A)	Luminance	0.35% (5~15000cd/m <sup>2</sup> )
	Chromaticity	x: 0.001、y:0.001(5~15000cd/m <sup>2</sup> )
Accuracy (Standard light source A)	Luminance	±3% (5~15000cd/m <sup>2</sup> )
	Chromaticity	±0.002 (5~15000cd/m <sup>2</sup> )
Measure Speed(Auto/manual)	Auto 1ms~3000ms、menu up to 60sec	
Wavelength range	380-780nm(optical 340-850nm)	
Spectral resolution (FWHM)	5.5nm	
Grating	MEMS Micro Grating	
Optical system	Shading Cylinder type optical system	
Storage/Capacity	SD card/depend on SD card capacity	
Operation interface	Support Traditional Chinese、Simplified Chinese、English	
Power	Li-ion battery 2850mAh、AC adaptor	
Battery life/Usage	Life about 10000 hour/4.8Hr(continuous measure mode)/4.5Hr(charge time to full)	
Dimensions (mm)	144(L)×97(W)×28(H)(without Shading Cylinder)、184(L)×97(W)×32(H)	
Constant aperture	M6、¼ 20UNC	
Weight	≤ 500 g	
Operation/Storage environment	0°C to 40°C、<80% RH / -10°C to 60°C <70%RH	
Accessories	Lens cover、USB cable、AC adaptor、toolbox、8GB SD card	
Software display	Luminance、Color Temperature(CCT、Duv)、Spectral Radiance、Color Rendering Index(CRI)、XYZ、Chromaticity CIE1931 x,y/CIE1976 u',v'、Color gamut、Quality control chart、spectrum(380-780nm)	
SDK	Support VC、VB SDK	



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# AL-100 SPECTRORADIOMETER





# AL-100

## SPECTRORADIOMETER

### IDEAL FOR MEASURING SPECTRUM, LUMINANCE AND CHROMATICITY



#### Wide testing range

- 0.5-60K cd/m<sup>2</sup>
- Measuring range of 0.5 to 60K cd/m<sup>2</sup> (Nit)



#### Fast measurement

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



#### Contact / distance measurement

- Allows reading in both bright and dark room
- Enabling timely measurement



#### 4.8hr High capacity lithium battery

- 2850 mAh battery power
- offering up to 4.8 hours of continuous testing



#### SD card storage

- Allows immediate data storage
- Expandable capacity by using SD cards
- Easily download data by using AL-100-SW software



#### Handheld design

- Adopts MEMS technology offering miniaturization
- Machine weighing ≤ 500g



#### Data Visualization and Infographics

- Multiple graphs and figures: CRI, 1931x,y, 1976u',v', and spectrogram



#### AL-100-SW software

- Supports Windows operating system
- Easy to collect and test data by computer-controlled
- Diagram of luminance, color and spectrum distribution

### Main function

Television, various types of display



TV

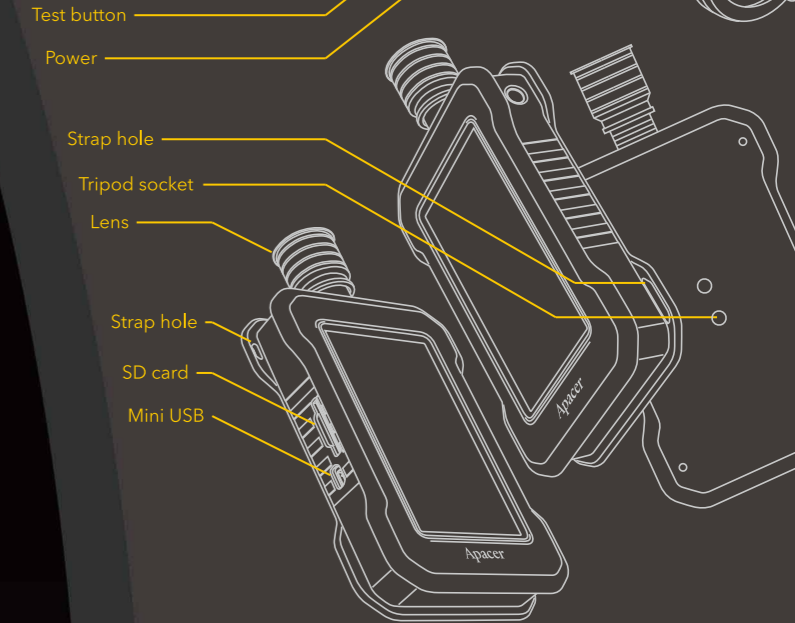
LCD

Notebook

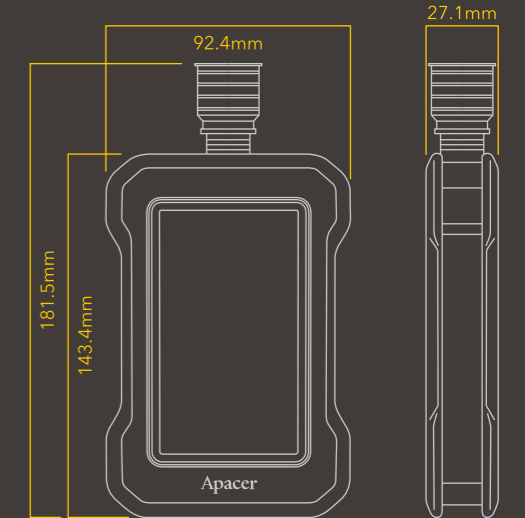
Smartphone



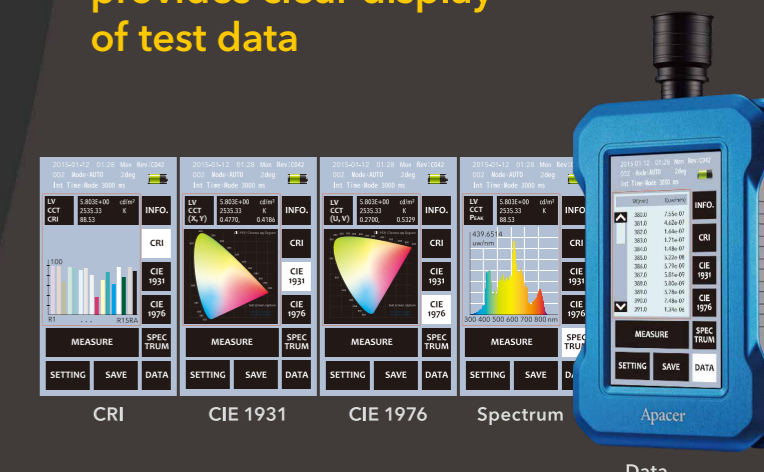
### Names of various parts



### Dimensions



Standard AL-100-SW software provides clear display of test data



CRI

CIE 1931

CIE 1976

Spectrum

Data