Анализаторы цвета дисплея CA-2500
Технические характеристики

По вопросам продаж и поддержки обращайтесь:

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2D Colour Analyzer CA-2500

Used to measure luminance and chromacity distribution of displays principally for inspection and adjustment of uniformity, mura, white balance, gamma and contrast. The high resolution CCD uses XYZ filters to closely match the human eye and can assess multiple displays in one measurement.

Introduction

High-accuracy measurements of two-dimensional color distribution

An instrument for high-resolution, two-dimensional measurement of the luminance distribution and chromaticity distribution of FPDs, projectors, backlights, etc. Processes from measurement to data analysis and evaluation can be performed efficiently in a short time, making the CA-2500 great for development evaluation or product inspection.

The CA-2500 uses XYZ filters and a high-resolution CCD to offer responsivity closely matching that of the human eye, allowing accurate, high-resolution two-dimensional measurement of the luminance distribution and chromaticity distribution of FPDs, projectors, backlights, etc. The included software is user friendly, enabling quick and efficient measurement, data analysis, and evaluation. This combination of instrument and software is a powerful tool for development evaluation or inspection.

Principal applications

Adjustment, inspection, and quality control of color for LCDs, PDPs, OLEDs, rear projectors, and all kind of Displays. Inspection of uniformity, non-uniformity and mura. Inspection and adjustment of white balance, inspection and adjustment of gamma, and contrast adjustment.

Features

Main Applications

- Simultaneous evaluation and inspection of luminance/chromaticity or chromaticity mura of various types of displays or display-related components (backlights, optical films, organic EL panels, etc.)
- Evaluation and inspection of the light emission distribution of automotive components (meters, instrument

panels, lamps, etc.)

- Light emission evaluation for cell phone keypads, light emission distribution measurements for lamps, etc.
- Measurements of luminance/correlated color temperature distribution of various light-emitting subjects

Main Features

Sensor with XYZ filters provides high correlation with responsivity of the human eye.

The CA-2500 utilizes a sensor with XYZ filters to offer spectral response that correlates closely with the CIE 1931 color-matching functions, instead of the RGB color-separation filters used in digital cameras or color CCD cameras. This ensures luminance/chromaticity measurements that correlate well with visual evaluation.

High-resolution 1-million-pixel CCD
High resolution 1 million pixel CCD (980×980) enables accurate measurements of even small areas.

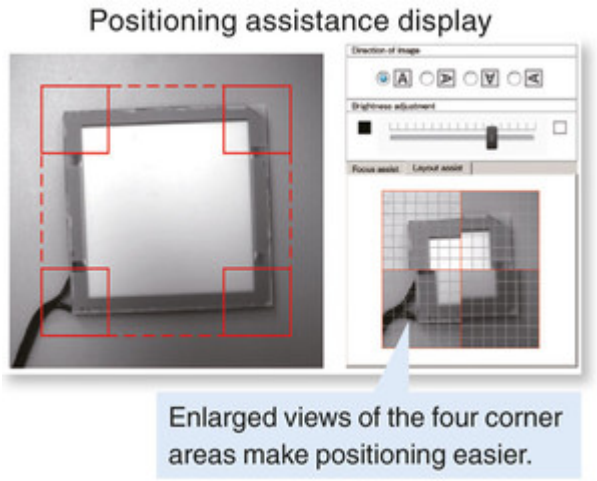
Interchangeable lenses for measurements of various objects

Standard, wide, and telephoto lenses (plus two macro rings for telephoto lenses) enable measurements of objects of various sizes by selecting the appropriate lens.
Individual lens calibration using multiple focal points
Each lens is individually calibrated at various focal points for the responsivity fluctuations caused by the instrument's sensors and optical filters and the lens itself. Accurate measurement of luminance distribution and chromaticity distribution can be started immediately after purchase.

Easy operation with included software

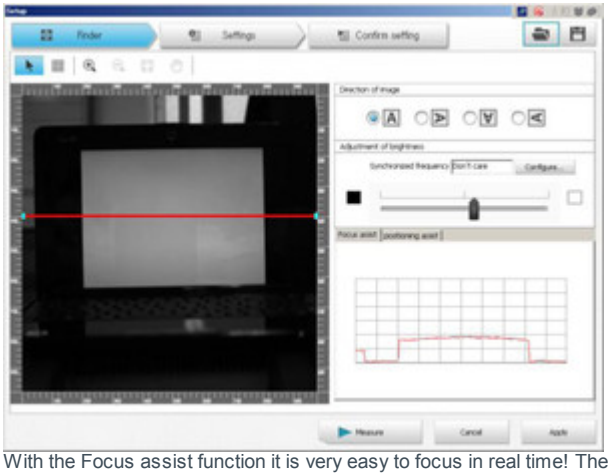
New developed, user-friendly software CA-S25w enables PC control of the CA-2500 for quick and efficient measurement, data analysis, and evaluation with easy operation. This combination is a powerful tool for development evaluation or inspection.

New subject setting assistance function



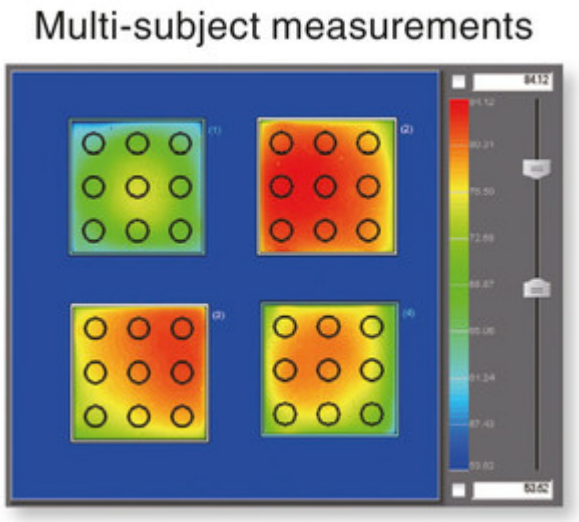
Measurement preparations are easier with focus adjustment section views and positioning assistance display

Easy focussing

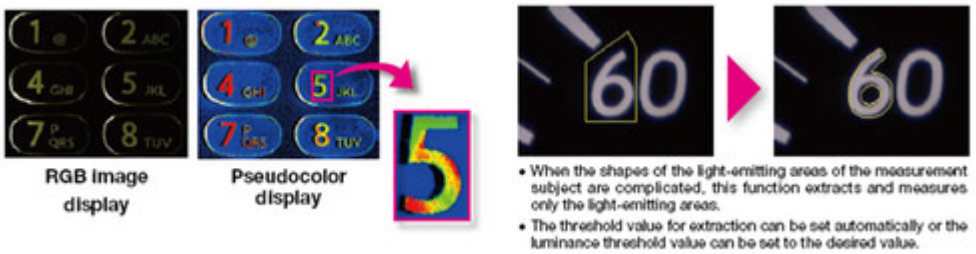


With the Focus assist function it is very easy to focus in real time! The sharp edge in the graph assist you to find the optimum focus condition.

Multi-subject measurements possible



Individual evaluation of multiple subjects can be performed with a single measurement.



Automatic extraction of measurement spot areas to measure the brightness and color distribution of small letters and indicators.

Other functions

- Synchronized measurement can be performed by numerical input of the sync frequency.
- Integration of a maximum of 256 measurements ensures accurate measurements even at low luminance levels.
- Backlight cancel function enables evaluation without the effects of backlight mura.
- User calibration for luminance and chromaticity.

Specifications

Principal Specifications CA-2500

Lens		Standard lens	Wide lens	Telephoto lens*
Light receptor		2/3-inch CCD image sensor (monochrome); Effective number of pixels: 1000×1000 (Measurement points: 980×980); Equipped with XYZ filter (closely matches CIE 1931 color-matching functions) and ND filter		
Typical measurement sizes/distances (Approx. length per side of square/distance)		98 mm/250 mm	145 mm/200 mm	115 mm/900 mm
		210 mm/500 mm	410 mm/500 mm	275 mm/2000 mm
		440 mm/1000 mm	850 mm/1000 mm	420 mm/3000 mm
		890 mm/2000 mm	1770 mm/2000 mm	With low-magnification macro ring: 57 mm/500 mm
				With high-magnification macro ring: 27 mm/300 mm
Measurement luminance range (including when ND filter is used)		0.05 to 100,000 cd/m²		0.25 to 100,000 cd/m²(0.5 to 100,000 cd/m² when high-magnification macro ring is used)
Size	**Body only**	160 (W)×164 (H)×192 (D) mm (Height including handle: 211 mm)		
	With lens/lens hood attached	223 (D) mm	219 (D) mm	224 (D) mm
				With low-magnification macro ring: 230 (D) mm
				With high-magnification macro ring: 237 (D) mm
Weight		Approx. 3.5 kg (when Standard lens and lens hood are attached)		
Power source		Included AC adapter: 100 to 240V AC, 50/60Hz		

* Low-magnification macro ring and high-magnification macro ring can be attached only to Telephoto lens.

* Specifications are subject to change without prior notice.

Optional Accessories for CA-2500

Tripod 475B Manfrotto product

Very stable Tripod

Item Order Code: B027801

Pan Head MA-400

Pan Head for Tripod 475B

Item Order Code: 9970-1801

Soft Case CA-A60

Soft Case

Item Order Code: 1735-600

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