Приборы, снятые с производства
CS, CA, CL
Описание

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Казахстан (7172)727-132

kan@nt-rt.ru || https://konica.nt-rt.ru/

Discontinued Products

Luminance & Colour Meter CS-100A

Spot measurement of color and luminance in a handheld portable instrument

The CS-100A is a portable, non-contact digital tristimulus colorimeter featuring a spot, SLR (single-lens reflex) design for remote measurement of luminance and chromaticity.

The Konica Minolta color meters are in their element when not only the brightness but also the color of light is to be measured. The wide selection offers the appropriate instrument for every application, from the simple tristimulus unit up to a Spectroradiometer with spectral lenses.

The tristimulus colorimeter CS-100A for light sources and irradiated objects, allows luminance and chromaticity to be remotely measured with a 1° acceptance angle.

Principal Applications

- Chromaticity and luminance measurements of LEDs and other small light sources.
- Chromaticity and luminance measurements of tungsten and fluorescent lamps.
- Surface color measurements of freshly painted walls and other surfaces that cannot be touched.
- Surface color measurements of complex shapes and items that cannot be touched for reasons of hygiene.
- Chromaticity and luminance measurements of traffic signals.
- Chromaticity and luminance measurements of color TV sets.
- Luminance measurements of monochrome TV sets.
- Chromaticity and luminance measurements of video projectors

Display Color Analyzer CA-310

Improved performance when measuring LED-backlit LCD TVs

Building on the benefits offered by the Display Color Analyzer CA-210, the CA-310 offers even higher accuracy when measuring the LED-backlit LCD TVs which are becoming more and more popular. Although conventional backlights such as fluorescent lamps provide relatively uniform light, the spectral emission distribution of LEDs varies slightly with each unit. The CA-310 overcomes this problem with color sensors that more closely match the CIE 1931 color-matching functions, offering higher measurement accuracy while providing high measurement speed even at low luminances.

Principal Applications

Universal Measuring Probe

Adjustment, inspection, and quality control of color for LCDs, PDPs, OLEDs, rear projectors, etc.. Inspection and adjustment of white balance, inspection and adjustment of gamma, and contrast adjustment.

LCD Flicker Measuring Probe

Adjustment, inspection, and quality control of color for active-drive LCD panels, LCD monitors, and LCD TVs. Inspection and adjustment of white balance, inspection and adjustment of gamma, and contrast adjustment.

Display Color Analyzer CA-310M

Improved performance when measuring LED-backlit LCD TVs

The CA-310M offers same accuracy as the Display Color Analyzer CA-310 in a new compact body.. The specifications and communications protocols match the CA-310 Display Color Analyser which makes it easy to combine the CA-310M and the CA-310 in a production line.

Although conventional backlights such as fluorescent lamps provide a relatively uniform light, the spectral emission distribution of LEDs varies slightly with each unit. The probes of the CA-310 series can overcome this problem with color sensors that more closely match the CIE 1931 color-matching functions, offering higher measurement accuracy while providing high measurement speed even at low luminances.

Principal Applications

Universal Measuring Probe
Adjustment, inspection, and quality control of color for LCDs, PDPs, OLEDs, rear projectors, etc.. Inspection and adjustment of white balance, inspection and adjustment of gamma, and contrast adjustment.

LCD Flicker Measuring Probe
Adjustment, inspection, and quality control of color for active-drive LCD panels, LCD monitors, and LCD TVs. Inspection and adjustment of white balance, inspection and adjustment of gamma, and contrast adjustment.

CRT Color Analyzer CA-100Plus

The reference instrument for whiteness and color control on CRT Monitors

For more than 10 years, the Konica Minolta CRT Color Analyzer CA-100 has set the standards for white balancing and colour control on CRT monitors for computer and broadcast displays.
With the new CRT COLOR ANALYZER CA-100Plus, Konica Minolta presents a new reference instrument with highly improved functions and accuracy to confirm its leadership in display measurement technology, while maintaining the ease of use, functionality and compatibility to the famous CA-100.

Measurement speed has been improved as well as the measuring range, which has been expanded for the low luminance range.

The CA-100Plus is characterised by its ease of use. The lightweight receptor head is simply held in front of the television or monitor and the measurement values appear immediately on the large display. A rubber lip on the receptor head minimises the effects of ambient light.

The measurement values can be displayed as luminance (cd/m^2 or ftl) with standard color values (XYZ, Yxy) or color temperature (T, Δuv) or RGB values. A programmable LED display additionally shows the deviation from a reference value using an analogue display.

A special highlight of the CA-100Plus is the display of the RGB values. Through a patented algorithm, the necessary conversion calculation from standard color values (XYZ, Yxy) into RGB values for a measured reference monitor allow very quick and easy white balancing.

Display Color Analyzer CA-210

Reference instrument for whiteness & color control on LCD & TFT Displays

The preceding model, CA-110 LCD Colour Analyzer, was introduced in 1991, when displays using LCD technology were just becoming available. Since then, LCD and TFT Displays have become standard technology for Computer Displays as well as many other industrial applications thus replacing CRT technology.

With the new DISPLAY COLOR ANALYZER CA-210, Konica Minolta presents a new reference instrument with highly improved functions and accuracy which confirms its leadership in display measurement technology, while maintaining the ease of use and functionality of the previous model.

The measurement speed has been improved and the measuring range has been expanded for the low luminance range. In addition, a new optical geometry, which reduces the influence of angular dependency of the LCD, has been applied, so the CA-210 conforms to IEC norm by using measuring angle of +/- 2.5 degree. Flicker measurement has been built into the same instrument, enabling processing of multiple tasks simultaneously.

Incident Color Meter CL-200

Perfect solution for colour, illuminance and colour temperature

Handheld and lightweight instrument for color, illuminance and color temperature measurements.

The portable Konica Minolta color meters are ideally suited when not only the brightness but also the color of light is to be measured. The wide selection offers the appropriate instrument for every application, from the simple tristimulus unit up to a spectroradiometer with spectral lenses.

Areas of application

Practically anything that illuminates can be measured with Konica Minolta's incident color meters. The possible uses range from research and development to production.
The CL-200 is a lux meter with a color function for workplace and street illumination, the production of lamps, or the measurement of very large surfaces and projectors (ANSI lumens) by taking advantage of the serial connection of several receptor heads.
The CS-100 Spot Incident Color Meter can measure all types of light sources including signal and traffic lights, airport runway lighting, lamps, LED's, etc. The CS-100 is highly accurate, completely portable and has a fast measurement time. The CS-2000 Spectroradiometer gives the measurement of spectral power distribution, luminance, chromaticity and correlated color temperature of light sources, display devices and the non-contact measurement of reflective subjects.

Handheld and lightweight instrument for color, illuminance and color temperature measurements

The CL-200 is an Incident Colour Meter designed to measure and display the tristimulus values, chromaticity, colour difference, correlated colour temperature and illuminance of light sources. Applications include research and development and colour inspection of light sources whether for manufacture or end use, setting up and adjustment of projectors and other display devices and environmental and psychological experimentation and testing. The CL-200 is a replacement for two instruments - the CL-100 and XY-1- but it also includes many new features. Automatic zero adjustment means the instrument is ready to measure immediately after turning it on. Sometimes for reasons of safety or convenience it is necessary to measure remotely. The CL-200 receptor can be separated and connected up to 100 m away from the measuring body by LAN cable. An RS-232 interface is built in to allow connection to PC .Connection to a thermal printer is also an option should a printout of measured data be required for validation. Like the T-10 range of Konica Minolta illuminance meters, the CL-200 allows multi-point measurement - from 2 to 30 additional receptors can be connected to one main body. This is particularly useful should the operator wish to measure light across a large area, like the whole surface of a projector screen, or light falling across a room or open field.

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