

can:scan

Digital Image Acquisition or Color Fidelity?

We don't make you choose – with can:scan you get both: Our multispectral scanner combines the exposure characteristics of modern digital cameras with the color fidelity of a colorimeter – and with unique quality and speed.

From 0 to 14 Million in just 40 Seconds

The multispectral scanner consecutively captures one gray-scale picture at a time through 16 spectral separation filters. Thus, 16 graphical color separations are produced to calculate the remission spectrums for each individual pixel. Each scan takes about 40 seconds and captures the spectrums of 14 million pixels.

Picky to the pixel - we look closely

In fact so closely that your eye cannot see it. can:scan scans pixel by pixel as if the spectral photometer would sample each pixel individually. We make such color capturing of the metameric attributes possible in the first place, unlike conventional camera technologies. can:scan distinguishes at pixel level.

Maximum Measurability

The capture area of the multispectral scanner can:scan is approximately DIN A4 to DIN A3 – depending on the lens used. The base area of the measuring space is approximately 100 x 60 square centimeters. Hence, can:scan can be used to capture sections of larger items (i.e., an entire piece of clothing).

Even Maintenance Is Done Quickly

The user-friendly and simple calibration of the system assures continuous, high-quality measurements. The activity takes about one 1 minute and should be repeated every two hours.

In the Best Light

Using a multispectral data set as a base, color-correct pictures can be generated by adding arbitrary illuminants, for example D50/D65. However, other standardized or actually available illuminants can be used to save image data in a device-independent CIE Lab TIFF format or dependent image formats (RGB and CMYK TIFF).

Finely checked and multidimensional

Due to the system's optical sampling, the scan is contact-free and captures even the effect of textures and small-figured surfaces. Yet can:scan can do more – it can also capture three-dimensional objects with the highest accuracy. Thus, even color nuances created by light or shade can be measured precisely.



Quality - For Sure

can:scan is an all-round product offering various applications, for example in the field of quality assurance. Based on a scanned spectral image, “virtual measurements” can be done by the can:connect software at a later date to produce readings and reports of any section of the object and to subsequently analyze color values.

can:scan - as accurate as it gets:

Dimensions:	100 cm x 60 cm x 120 cm (width x depth x height)
Weight:	approximately 120 kg
Capture area:	up to DIN A3 (depending on lens)
Resolution:	14 million pixel 130 DPI
Depth of field:	approximately 15 cm
Camera:	monochrom CCD
Measuring duration:	40 seconds
Data formats:	spectral data set (approximately 45MB)
Image formats:	CIE Lab TIFFs (8 and 16 bit with approx. 45/9MB file size) RGB TIFFs CMYK TIFFs
Scanned wavelength range:	400–700 nm
Illumination:	Stabilized halogen bulb lamp
Measuring accuracy:	ΔE 0,1 to 0,5
Calibration:	Approximately every 2 hours using the included white balance reference, duration approximately 1 minute
Further equipment:	Windows desktop computer, monitor
Software:	can:connect with the modules “scan”, “convert”, and “print”

Our Technology - Your Advantages:

- Quick and easy generation digital samples with full color fidelity to replace physical original samples.
- Highest precision for colorimetry of patterned and textured surfaces such as textiles, plastics, leather, and wood.
- Displaying of digital samples for various illuminants and scanners.
- Saves time and costs while delivering highest quality (reduced costs for logistics, simple and lossless duplication, fast electronic transfer).
- Spectral measurements can be done “virtually” using the digital samples.
- Spectral measuring data for any point of the digital sample.

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