# ·iMeasure

Multi-band image scanner
MBS-6500

Visualizes the 2-dimensional distribution of a target component density.

For component distribution analysis, detection of foreign body contamination, document analysis, material analysis, quality control, etc.

MBS-6500 features

- A highly detailed 2D image in distinctive spectra can be obtained if an optional band-pass filter is selected.
- The scanner has a correction function, and obtains the reflectivity of the sample with uniform light (from visible light to near infrared light.)
- A high quality, well-focused image can be obtained by simply placing a sample on the glass surface.
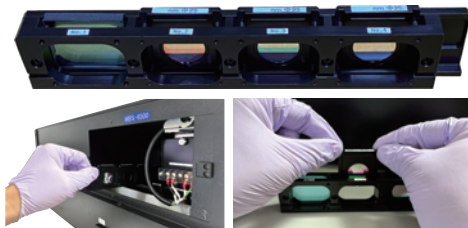
## Specifications

Band-pass filter	It is possible to set up to 4 types of filter, each allowing through selected wavelengths. Users can make their own filters. It is possible to change the filter even while the sample is on the scanner.
Supported wavelength range	450 nm ~ 940 nm (image scanning possible for 400 nm ~ 1030 nm)
Light source	Halogen lamp
Sensor	CCD line sensor
Scan size	8.5 × 17.2 inch (216 mm × 437 mm)
Optical resolution	2400 ppi
Scanning gradation	16 bit input/16 bit output per color
Interface	Hi-Speed USB
Scanner dimensions	W1115 × D598 × H300 mm
Weight	40 kg
Power consumption	270 W
Power source	AC 100–240 V , 50/60 Hz
Standard software	iMeasure Scan Pro

Application examples

- Quantitative assessment of the two-dimensional distribution of components
- Analysis of documents and works of art to differentiate between original and counterfeit.
- Testing of colors

(left) A visible image of palm veins
(right) An infrared image of palm veins

Comparison of spectroscopic performance
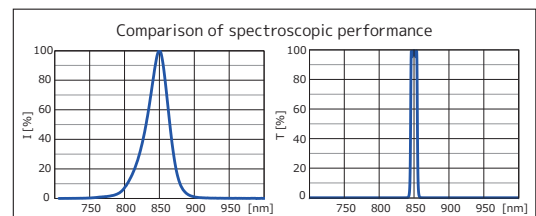
(left) The emission spectra of a LED
(right) The spectral transmittance of a band-pass filter