

ISC – InlineSpectral Control

Inline and adhering to M1 standards

ISC is the technological answer in automation to the increasing demand for quality. The measuring technology satisfies the highest requirements in the field of digital spectral color communication and with 256 measurement channels achieves a markedly higher measurement resolution than other systems. ISC provides real spectral measurement and therefore a comparable, resilient chromacity measurement at full process speeds. The spectral sensor is capable of measuring color fields across the entire width of the printing area. The spectral measurement system is also capable of recognizing marks automatically with a supplemented image sensor as well as the measuring position through image analysis.

One challenge of many modern paper types is optical brightening agents. In response, color communication defined new standards. ISO 12647-2:2013 defined new measuring conditions (M0-M3). Measuring condition M1 is intended to reduce deviations of the device measurement results due to fluorescence. This applies to both fluorescence due to optical brightening agents in the paper as well as the fluorescence of coloring agents that are used for imaging or to create proofs. Unlike measuring condition M0, M1 precisely defines the UV component in the lighting. The production process requires just this type of measuring instrument according to M1 to meet the requirements of ISO 12647-2 in practice. The inline spectral photometer featured in ISC is the first and only one to measure in accordance with M1.



Highlights

Real, high-resolution spectral measurement

Production measurement system with M-measurement condition

Integrated image sensor

High-quality components and precise unit adjustment

Convincing lighting concept with high performance LEDs and controlled UV intensity

Precision thanks to temperature compensation and integrated white tile with protective cover

Compressed air circulation (protection from contamination and cooling function)

Long service life thanks to flash mode

