

iQ-Multispectral

Using iQ-LED to enhance digitalization and preservation

The iQ-Multispectral is a multispectral illumination device based on iQ-LED technology to enhance digitalization and the preservation of documents, texts, or images.

Main Features

- * Includes all of the features from iQ-LED
- * Uses the narrowband light source method
- * Spectral range between 380 and 1050 nm
- * UV LED (at 365 nm) with bandpass filter*
- * Setup based around a reprographic stand



The advantages of iQ-LED for the archiving industry

iQ-LED technology provides the iQ-Multispectral with many advantages when compared to traditional archiving illumination. Each iQ-Multispectral light source has 19 channels in the visible range, 11 channels in the IR range, and one UV LED, all of which can be controlled with the iQ-LED software to generate specific spectral distributions.

The iQ-Multispectral provides an exceptional level of control over spectral light distribution, and through this capability enables enhanced digitization and preservation.

At a Glance	iQ-Multispectral
Principle	Diffuse light panels that use iQ-LED technology (includes a micro-spectrometer) to illuminate a reproducible scene for multispectral imaging.
Light source	2 x iQ-LED V2 each with 41 SMD high_power LEDs separated into 20 color channels and a spectral range of 380 - 820 nm 3 x iQ-LED VIS-IR each with 11 additional channels and a spectral range of 380 - 1050 nm 2 x iQ-LED UV each with 2 SMD high-power LEDs (365nm plus bandpass filter)
Bandpass filter for UV channel (optional)	350 nm hard coated bandpass interference filter 50nm FWHM 365 nm hard coated bandpass interference filter 10nm FWHM
Uniformity	Up to 90% for A2 space
Illumination stability	± 1% when stabilized (2% after switching D illuminants in the first 5 s)
Dimmable	iQ-LED: Software-based by presetting the intensity, or by selecting different pre-stored intensity illuminants directly on the device

*Bandpass filters are optional