

M SPECTROVUE

VM-10

- New technology for on-printer color calibration and linearization
- Automated print and measure of color targets saves time and media
- Streamlines your entire color management workflow

MUTOH
S P E C T R O V U E

Automate your color workflow with Mutoh's SPECTROVUE VM-10 and the new ValueJet 1608HS Hybrid Printer.

The Mutoh SPECTROVUE is a compact spectrophotometer developed for on-printer color calibration. The patent-pending design incorporates Mutoh's own DP1 spectral imaging chip, a high-resolution "digital prism" that converts visible light to a digital spectrum. The SPECTROVUE reports both spectral and colorimetric values for any one of 18 pre-programmed standard illuminants or any standard daylight illuminant. It automates the tedious task of printing and measuring color targets to create custom color profiles; it streamlines the entire color management workflow, enhances productivity, reduces time and wasted media, and encourages better in-shop color management practices for superior and reliable color reproduction across multiple media types.**



MODEL SPECIFICATIONS	SPECTROVUE VM-10
Illumination Source	Broad Spectrum LED+Fluorescent Phosphor with UV Boost
Illumination Geometry	45/0° Illumination/Observer (CIE Pub. No. 15)
Aperture Diameter / Sample Area	14.5 mm / 6.0 mm @ 1.5 mm Aperture-to-Media Gap
Spectral Element / Detector Type	Interference Wedge Filter / 128 Pixel Si Photodiode Array
Optical Spectral Resolution	~ 385 to 715 nm @ 2.5 nm (approximate)
Reported Spectral Resolution	400 to 700 nm @ 10 nm Intervals
Spectral Repeatability	< 0.5% λ Standard Deviation (Avg. of 14 Calibrated CERAM BCRA Tiles)*
Inter-Instrument Agreement	< 1.0 ΔE_{2000} Standard Deviation (Avg. of 14 Calibrated CERAM BCRA Tiles)*
Sampling Resolution / Rate / SNR	12 bits / 8 MHz / 1000:1 (Avg. of 10 Samples of Calibrated CERAM BCRA Medium Gray Tile)*
Measurement Time / Cycle	200 ms (Typical) / 350 ms (Max) / 3 Samples per Second
Defined Illuminants	A, B, C, D50, D55, D65, D75, D93, F1 - F12, Daylight CCT 4000 - 25000 K
Standard Observer Functions	Selectable 2° (CIE 1931) or 10° (CIE 1964)
Defined Color Models	CIELAB (1976) and CIE XYZ
CPU / RAM / EEPROM	16-bit MCU 40 MIPS @ 80 MHz / 16KB / 128KB
Internal Thermistor Accuracy	$\pm 1^\circ \text{C}$ (For Operating Temperature Range) / 10-bit
Dark Current / Signal Variability	~ 2.0% Vdd 66 mV / ~ 0.2% Vdd / 7.0 mV
A/D Converter Resolution / Noise	0.8 mV / $\pm 1 \text{ LSB}$ / 1.6 mV

*Part #BCRA-14-02C(450) Calibration # AT200900220-1 (450) Temperature: 76°F / 26°C. Specifications given here are subject to change without prior notice.

** Requires SPECTROVUE VM-10 compatible color profiling software, or third-party RIP software for ValueJet(TM) with SPECTROVUE(TM) to be fully functional. For a list of authorized RIP software vendors contact your local Mutoh Authorized Reseller.

Multiple U.S. and International Patents Pending.

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