

Auto Scan Spectrophotometer **FD-9**

Ultra-high-speed measurements of calibration, profiling and quality control charts.



Fast, Versatile & Connected

The key to success for a modern professional print business is automation and accuracy. The Konica Minolta FD-9 Autoscan Spectrophotometer is the ideal tool for print colour management, combining speed, accuracy, ease-of-use and versatility.

Fast

The FD-9 reads 1,500 patches in just 4 minutes and 2,500 patches in just 7 minutes. Within one single scan users obtain data for M0, M1 and M2, conforming to ISO13655:2009 and offering improved certainty of colours and OBA.

Versatile

The FD-9 uses a free-format-function enabling it to measure virtually every chart that might be used to calibrate printers and create profiles.

Even quality control wedges, used for conformance testing of proof prints, etc., can be measured with the FD-9 without cutting them from the print.

The FD-9 can measure a wide range of substrates which makes it the ideal instrument for proofing, production and Large Format Printing applications.

Users can obtain amazing results and achieve the best possible neutral grey balance and flawless skintones in even non-standard viewing environments. Konica Minolta's Virtual Fluorescent Standard (VFS) allows the creation of precision custom profiles to compensate for the environment where the print will be viewed.

Designed for Usability

The integrated image scanner enables automatic chart alignment and can read QR codes for fully automated sheet and chart identification.

The colour display shows step by step instructions to the operator, improving usability and minimising the opportunity for user error. The results of a quality control evaluation can be viewed directly on the display^{*1}.

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^{*1} Depends on the software that is used with FD-9.



Accuracy assured

Like the groundbreaking FD-7, the FD-9 features built-in wavelength calibration and temperature drift compensation, maximising day-to-day accuracy and reliability.

For repair, certification and adjustments to absolute accuracy, Konica Minolta offers worldwide standardized service for all instruments. Users can be confident of Inter Model and Inter Instrument Agreement between the FD-5, FD-7 and FD-9 to offer their customers true local or global consistency.



Users who want to monitor and audit the absolute accuracy of the system on a regular basis will benefit from the optional self-check function of FD-9. Self check uses certified BCRA tiles specifically designed for FD-9 to monitor the accuracy at any time.

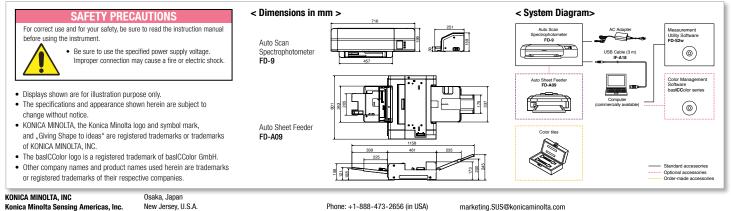
Full automation

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Measuring a large number of patches with FD-9 is both fast and convenient. Users who need to measure dozens of sheets every day can benefit from using the Automatic sheet feeder, a first for a print colour measurement instrument. This optional accessory enables up to 100 sheets to be pre-loaded and measured with minimal user input. Combined with the QR code reader function, the measurement results can be automatically inked to the printed sheet.

PRINTsetup

Specifications		Autoscan Spectrophotometer FD-9			
Illumination / viewing system Spectral separation device		45°a: 0°(annular illumination) ⁻¹			
		Conforms to CIE No. 15, ISO 7724/1, DIN5033 Teil 7, ASTM E 1164 and JIS Z. 8722 Condition A for reflectance measurements.			
		Concave grating			
Wavelength range		380 to 730 nm			
Wavelength pitch		10 nm			
lalf bandwidth		Approx. 10 nm			
asurement area		Approx. 3 mm			
ight source		LED			
Measurement range		Reflectance: 0 to 150%			
Short-term repeatability		Colorimetric: Within ΔE_{c0} 0.05 (Without polarization filter)			
		* Under Konica Minolta test conditions where a white calibration plate is measured 30 times at 10 second intervals after white calibration			
Inter-instrument agreement		Within ΔE_{00} 0.3 (Average of 12 BCRA Series II colour tiles compared to values measured with a master body under Konica Minolta standard conditions; without polarization filter)			
Measurement time		Approx. 4 min per 1,500 patches (Konica Minolta measurement conditions ³)			
Output item		Spectral reflectance			
Measurement conditions *2		M0 (A), M1 (D50), M2 (A + UV filter), C, ID50, D65, ID65, F2, F6, F7, F8, F9, F10, F11, F12, User-defined light source			
Backing condition		White backing, compliant with ISO13655			
Interface		USB2.0, 10Base-T/100Base-TX			
ower		Specified AC adapter (Input: AC 100 to 240 V, 50/60 Hz; Output: DC 24 V, 5 A)			
Size		FD-9 only: W 716 x D251 x H159 mm Auto Sheet Feeder: W 601 x D 1,158 (when tray is open) x H245 mm			
Veight		FD-9 only: Approx. 10.5 kg			
Operation temperature / humidity range		10 to 35°C, 30 to 85% relative humidity with no condensation			
Storage temperature / humidity range		0 to 45°C, 0 to 85% relative humidity with no condensation			
Standard accessories		AC adapter, USB cable, Measurement Utility Software FD-S2w			
ptional accessories		Auto Sheet Feeder FD-A09			
Acasurable Chart Specification	ns				
Vidth		45 to 330 mm			
ength		170 to 660mm			
hickness		0.05 to 0.45 mm			
Smallest patch size		6x6mm or larger			
Maximum patches per sheet		1,394 (A4) / 2,928 (A3)			
Main specifications of the Soft	ware FD-S2w	1,001,011,2,020,00			
	OS	Windows 7 / Windows 8.1 / Windows 10 / Mac OS X 10.8-10.10			
Operating environment	CPU	1 GHz or faster processor			
	Memory	1 GB or more (32 bit) / 2 GB or more (64 bit)			
	Hard disk	At least 8 GB of available disk space			
	Display	Display unit capable of showing at least 1,024 x 768 dots			
	Interface	USB 2.0, 10Base-T/100Base-TX			
Compatible Instruments		Readout only for user-defined light source)			
Features		asurement, measurement data display, measurement file output, QR code creation			
Displayed measurement data	Spectral reflectance, co				
Measurement conditions *2		A + UV filter), C, ID50, D65, ID65, F2, F6, F7, F8, F9, F10, F11, F12, User-defined light source			
Illuminant	A, C, D50, ID50, D65, ID65, F2, F6, F7, F8, F9, F10, F11, F12, A + UV filter, User-defined light source				
Observer	A, C, DSU, IDSU, I				
Colour space	L*a*b*, L*C*h, XYZ				
PC supported languages	E a D', E'C TI, XYZ English, French, German, Spanish, Japanese, Chinese (Simplified)				
	CxF3: IS017972-1:2015; CGATS: IS028178:2009 (ANSI CGATS-17); FD-S2w original format (csv/tsv)mm				



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