



KONICA MINOLTA

Spectrophotometer **CF-300**



Capable of measuring small target areas
Non-contact measurement
High speed and accuracy

Giving Shape to Ideas

Spectrophotometer CF-300 for precise colour measurement of small target areas

Designed for non-contact, high-speed colour measurement in demanding industrial applications

Capable of measuring small target areas

Capable of measuring targets as small as 0.75×1 mm, the CF-300 can be used to measure the colour of watch screws, small parts for smartphones and game consoles, etc.

The view pointer makes it easy to identify the measurement area, effectively reducing the likelihood of measurement errors.

Benefits

- Measuring colours of small target areas such as watch dial faces and bands, smartphone parts, eyeglass frames, fasteners, buttons, fountain pens, etc.



Non-contact measurement

The CF-300 employs an integrating sphere that allows colorimetric measurements to be conducted at a distance of 1 mm from the target object. Integrating-sphere-based measurements makes the CF-300 interchangeable with general spectrophotometers.

Benefits

- Measuring colours of cosmetics such as lipstick or foundation, paints or other targets that could stain the instrument during contact measurements.



High-speed measurement

Requiring only about 0.1 sec per measurement and capable of continuous measurement at a minimum interval of about 0.2 sec, the CF-300 can perform 5 measurements per second*.

Benefits

- Improving efficiency of quality control via high-speed non-contact measurements on production lines.

* For high-speed measurement use, the software must be customised to the customer's line conditions.



Example configurations



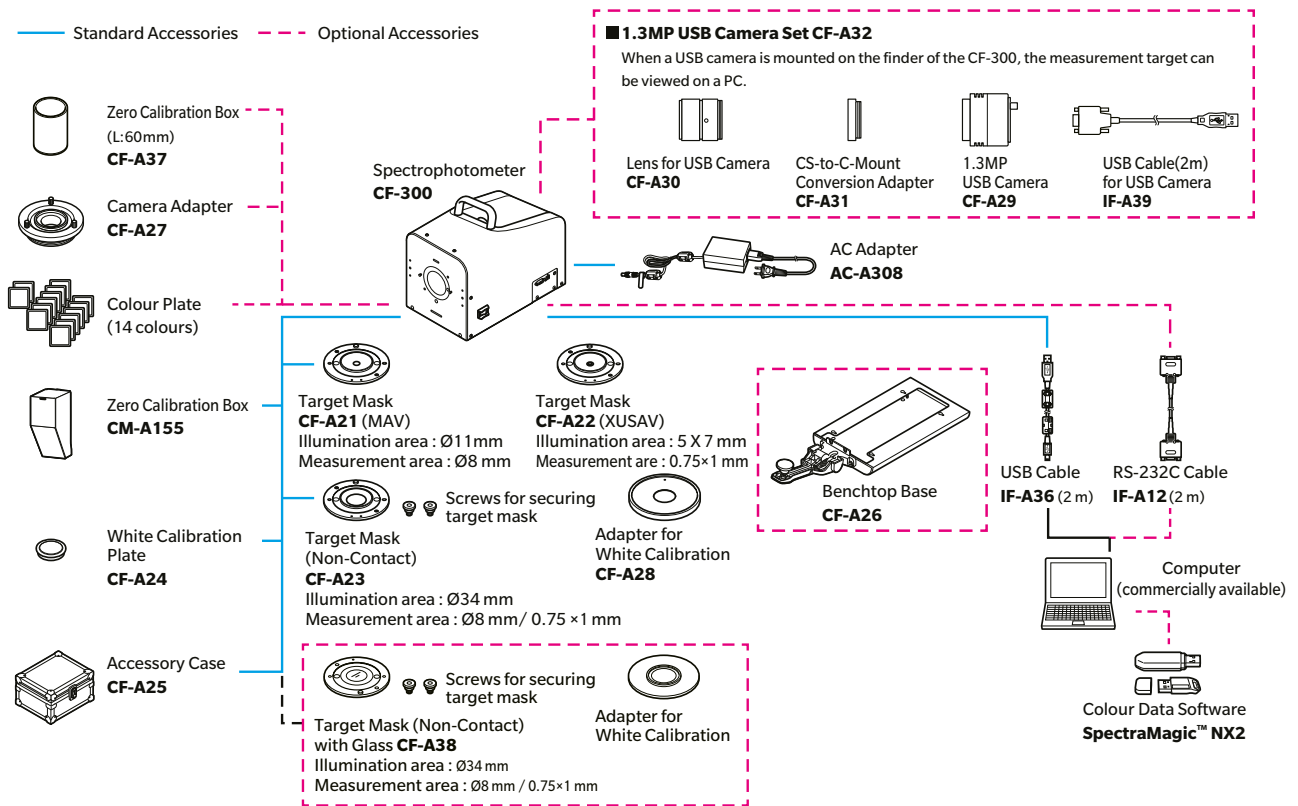
Benchtop Base



Bottom Port Stand

* To purchase a bottom port stand, contact a sales office on the back cover.

System Diagram



(Option) Colour Data Software SpectraMagic™ NX2

SpectraMagic™ NX2 is colour management software that gives users a customisable screen display and a wide range of functions for operating and configuring their spectrophotometers or Chroma Meter from a computer. Users can display data lists and create colour difference graphs and spectral graphs to assist in colour management that requires judgment based on numerous values and indicators.

You can see the details in the catalog from the following 2D code. →

[SpectraMagic™ NX2 website](#)

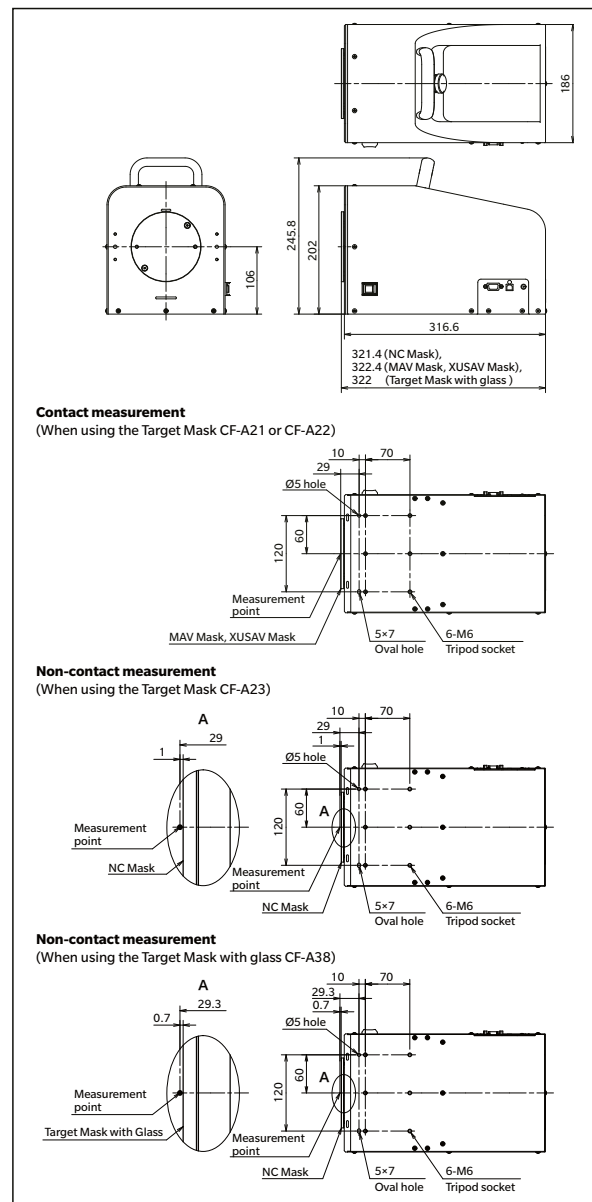


Specifications CF-300

Model	Spectrophotometer CF-300					
Illumination/ viewing system	di:8°, de:8° (diffuse illumination: 8° viewing)					
	SCI (specular component included)/SCE (specular component excluded) switchable					
	Conforms to JIS Z 8722 condition c, ISO 7724/1					
Integrating sphere size	ø152 mm					
Detector	Dual 40-element silicon photodiode arrays					
Spectral separation device	Planar diffraction grating					
Wavelength range	400 to 700 nm					
Wavelength pitch	10 nm					
Measurement range	0 to 175%; Output/display resolution: 0.01%					
Light source	High-CRI white LED					
Illumination area	MAV	ø11 mm	XUSAV	5×7 mm	NC/NC with glass (Non-contact measurement)	ø34 mm
Measurement area		ø8 mm		0.75×1 mm		ø8 mm, 0.75×1 mm
Measurement distance	Contact measurements (MAV/XUSAV target mask): 0.0 mm Non-contact measurements (NC target mask): 1.0 mm Non-contact measurement (NC target mask with glass): 0.7 mm					
Measurement time	Approx. 0.1 seconds					
Minimum measurement interval	Approx. 0.2 seconds					
Repeatability	Chromaticity value: Standard deviation within E*ab 0.02 (When MAV/SCI contact measurements of a white calibration plate are taken 30 times at 1-second intervals after white calibration)					
Inter-instrument agreement	Within E*ab 0.15 (Based on MAV/SCI contact measurements of 12 BCRA Series II colour tiles compared to values measured with a master body under Konica Minolta standard conditions)					
Interface	USB 2.0, RS-232C					
Power	Dedicated AC adapter (AC 100 to 240 V, 50/60 Hz)					
Operation temperature/humidity range	15 to 30°C, relative humidity is 80% or less (at 30°C) with no condensation					
Storage temperature/humidity range	0 to 40°C, relative humidity is 80% or less (at 35°C) with no condensation					
Size (W×H×D)	Approx. 186 × 202 × 317 mm (Including handle height: 246 mm)					
Weight	Approx. 7.3 kg					
Measurement items*	Various colour systems, indices and colour-difference formulas are displayed in the windows of the separately sold SpectraMagic™ NX2 colour management software.					

* For details about measurement items (colour systems, indices and colour-difference formulas), see the user's guide of the separately sold SpectraMagic™ NX2 colour management software.

Dimensions [Units:mm]



PRECAUCIONES DE SEGURIDAD

Para un uso correcto y de seguridad, asegúrese de leer el manual de instrucciones antes de utilizar el instrumento.

- Conecte siempre el instrumento a la tensión de alimentación especificada. Una conexión incorrecta puede provocar un incendio o una descarga eléctrica.
- Asegúrese de utilizar las pilas especificadas. El uso de pilas inadecuadas puede provocar un incendio o una descarga eléctrica.



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KONICA MINOLTA, Inc., Sakai Site
Product design, manufacture/manufacturing management, calibration and service



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