#### Specifications

			Spe	ectrophotome	ter CF-300		
	di:8°, de	:8° (diffuse ill	uminatior	n: 8° viewing)			
Illumination/ viewing system	SCI (spe	cular compor	nent inclu	ded)/SCE (specu	ular componei	nt excluded) s	switchable
	Conform	ns to JIS Z 872	2 conditio	on c, ISO 7724/1			
Integrating sphere size	ø152 mr	n					
Detector	Dual 40-	element silico	on photod	liode arrays			
Spectral separation device	Planar di	iffraction grat	ing				
Wavelength range	400 to 7	00 nm					
Wavelength pitch	10 nm						
Measurement range	0 to 175	%; Output/di	splay resc	olution: 0.01%			
Light source	High-CR	RI white LED					
Illumination area	N401/	ø11 mm	VUCAV	5×7 mm	NC/NC with glass	ø34	mm
Measurement area	IVIAV	ø8 mm	XUSAV	0.75×1 mm	(Non-contact measurement)	ø8 mm	0.75×1 mm
Measurement distance	Contact Non-cor Non-cor	measuremen ntact measure ntact measure	its (MAV/) ements (N ement(NC	KUSAV target ma IC target mask): C target mask wit	ask): 0.0 mm 1.0 mm :h glass):0.7 m	ım	
Measurement time	Approx.	0.1 seconds					
Minimum measurement interval	Approx.	0.2 seconds					
Repeatability	Chromat (When N at 1-seco	ticity value: Si MAV/SCI cont ond intervals	tandard c act measi after whit	leviation within l urements of a w e calibration)	E*ab 0.02 hite calibratio	n plate are ta	ken 30 times
Inter-instrument agreement	Within E (Based o values m	*ab 0.15 on MAV/SCI co neasured with	ontact me i a master	easurements of 1 body under Kor	2 BCRA Serie nica Minolta st	s II color tiles andard cond	compared to itions)
Interface	USB 2.0,	, RS-232C					
Power	Dedicate	ed AC adapte	r (AC 100	to 240 V, 50/60	Hz)		
Operation temperature/ humidity range	15 to 30'	°C, relative hu	umidity is	80% or less (at 3	80°C) with no	condensation	
Storage temperature/ humidity range	0 to 40°0	C, relative hur	nidity is 8	0% or less (at 35	i°C) with no co	ondensation	
Size (W×H×D)	Approx.	186 × 202 × 3	817 mm (I	ncluding handle	height: 246 n	nm)	
Weight	Approx.	7.3 kg					
Measurement	Various	color system	ns indice	es and color-dif	ference form	ulas are disn	laved in the

items\* windows of the separately sold SpectraMagic NX2 color management software.

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

#### Dimensions (Units:mm)















- KONICA MINOLTA, the Konica Minolta logo and symbol mark, "Giving Shape to Ideas" and SpectraMagic are registered trademarks or trademarks of Konica Minolta, Inc.
- Displays shown are for illustration purpose only.
- The specifications and appearance shown herein are subject to change without notice.

https://konicaminolta.com/instruments/network





KONICA MINOLTA, INC.	Osaka, Japan					
Konica Minolta Sensing Americas, Inc.	New Jersey, U.S.A.	PHONE: (888)473-2656 (in USA), +1	(201)236-43	00 (outside USA) FAX: +1(	201)785-	2480 E-Mail: service.sus@konicaminolta.com
Konica Minolta Sensing Europe B.V.	European HQ / BENELUX German Office French Office UK Office Italian Office Swiss Office Nordic Office Polish Office Turkish Office	Nieuwegein, Netherlands München, Germany Roissy CDG Cedex, France Warrington, United Kingdom Cinisello Balsamo, Italy Dietikon, Switzerland VÄSTRA FRÖLUNDA, Sweden Wrocław, Poland Istanblul, Turkey	PHONE: PHONE: PHONE: PHONE: PHONE: PHONE: PHONE: PHONE: PHONE:	+31(0)30 248-1193 +49(0)89 4357 156 0 +33(0)180 11 10 70 +44(0)1925 467300 +39 02849488.00 +41(0)43 322-9800 +46(0)31 7099464 +48(0)71 73452-11 +90(0)216-528 56 56	E-Mail: E-Mail: E-Mail: E-Mail: E-Mail: E-Mail: E-Mail: E-Mail: E-Mail:	info.benelux@seu.konicaminolta.eu info.germany@seu.konicaminolta.eu info.trance@seu.konicaminolta.eu info.italy@seu.konicaminolta.eu info.italy@seu.konicaminolta.eu info.omitzerland@seu.konicaminolta.eu info.poland@seu.konicaminolta.eu info.senisng@konicaminolta.com.tr
Konica Minolta (CHINA) Investment Ltd.	SE Sales Division Beijing Office Guangzhou Office Chongqing Office Qingdao Office Wuhan Office Shenzhen Office	Shanghai, China Beijing, China Guangzhou, China Chongqing, China Shandong, China Hubei, China Shenzhen, China	PHONE: PHONE: PHONE: PHONE: PHONE: PHONE: PHONE:	+86-(0)21-6057-1089 +86-(0)10-8522 1551 +86-(0)20-3826 4220 +86-(0)23-6773 4988 +86-(0)23-879 1871 +86-(0)27-8544 9942 +86-(0)755-2868 7535	E-Mail: E-Mail: E-Mail: E-Mail: E-Mail: E-Mail: E-Mail:	hcn_sensing@gcp.konicaminolta.com hcn_sensing@gcp.konicaminolta.com hcn_sensing@gcp.konicaminolta.com hcn_sensing@gcp.konicaminolta.com hcn_sensing@gcp.konicaminolta.com hcn_sensing@gcp.konicaminolta.com
Konica Minolta Sensing Singapore Pte. Ltd.	Singapore		PHONE:	+65 6563-5533	E-Mail:	se-service.sg@konicaminolta.com
Konica Minolta Sensing Korea Co., Ltd.	Korean HQ / Kintex Cheonan Office	Goyang-si, Korea Cheonan-si, Korea	PHONE: PHONE:	+82(0)2-523-9726 +82(0)41-556-9726	FAX:	+82(0)31-995-6511

Addresses and telephone/fax numbers and e-mail address are subject to change without notice. For the latest contact information, please refer to KONICA MINOLTA Worldwide Offices web page:





# **SPECTROPHOTOMETER CF-300**



# **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 color 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.



• Measuring colors 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 colors 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\*.

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

<Benefits>

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

## (Option) Color Data Software SpectraMagic NX2 **Professional or Lite Edition**

						-	-			-
	Chi co man	Data Mana W. Jones To	to a little belowing	· Item and the second	CONTRACTOR OF	Concession of the	Concession of the	Common formation	ALC: NO	
	* @ Target	Target #000071 SCI		57.15 -35.29 14.5	· ···			81	a	
		Target #00001 SCR		52.62 -32.51 12.1				85.	M	
		Sample #30002 SCI	NG	45.57 22.39 2.8	-51.58	50.59	-11.73	53.21 862	15 -0.21	
		Sanghe #00002 SCE	10	3631 27.54 3.8	-13.70	2035	-13.28	6.04 883	0 -020	
		Januar #20003 103		5241 -1249 113	-0.01	0.02	-6.82	0.02 BM	17 -0.78	
	1.01	Sample #00004 SO	16	41.49 39.57 48.4	8.55	62.88	H-10	N.44 90	25 1.60	
		Sample #00004 SCE	NG	62,05 42,86 58.9	5 5.44	75.16	4181	86.53 902	/5 1.60	
	· · · ·	Sample #20005 SCI	NG	96.17 -16.55 -26.3	-636	11.85	-65.96	42.58 85.0	37 031	
		Sample #30005 SCE	NG	51.47 -15.39 -28.3	-1.15	12.42	-6.91	47,84 851	67 0.55	
		Sample Policito Sci	10	3154 6.55 614		34.55	41.94	96.4/ 90.0	00 0.04	
		Sample #30011 50	NO	63.76 -10.25 12.6	6.61	18.15	-1.72	19.40 904	00 0.84	
		Sample #00011	NG					90	00 084	
		Sample #00012 SCI	NG	66.30 -41.31 7.3	8.15	12.80	-7.84	11.32 904	30 0.84	
									0.044	
	-	5anghe #00012	100							
01 ME	Creas Webs	Sangle ADECU Sangle ADECU Sangle ADECU	NG NG	FIN 1.14 324	531	25.56		46.77 901	00 0.84 00 0.84	
201 Designed and the second se		Sangle HOEO		CO6 -154 -224	- 531	25.35	-37.26	46.77 900 900	00 0.04 00 0.04	
201 202 202 202 202 202 202 202 202 202		Single HIRCH 50 Sengle HIRCH 50 Sangle HIRCH		1206 - 454 - 226 				46,77 960 960 /**	00 084 00 084	.e.
0 2012 2012 2012 2012 2012 2012 2012 20		Sergie 40003	50 100 100 100 100 100 100 100 100 100 1	47.06 -1.54 -22.6 		70.00		44,77 900 901 /** . ** 20.00	00 034	
8 80 90 90 90 90 90 90 90 90 90 90 90 90 90		Sanga 4000	100 100 100 100 100 100 500	47.06 - 1.54 - 42.4		70.00		4577 964 964 75.00 55.00	00 034 00 034	
5 55 56 56 56 56 56 56 56 56 56 56 56 56		Sanga Katto So Sanga Katto So Sanga Katto So Tanpat Name Sample Name	500 100 100 100 100 100 100 100 100 100	47.06 - 4.54 - 424 		70.00		4.77 96 960 -		
		Serge Kill So Serge Kill So Serge Kill So Serge Kill So Target Name Sergie Name	NG NG NG NG NG NG NG NG NG NG NG NG NG N	er 40000 pie 40000 Serreje Norse		23.58 		4.77 96 96 70 . 74 5.00 5.00 5.00 5.00 5.00 5.00 5.00		
- 		Engle Kill 50 Engle Kill 50 Engle Kill 50 Engle Kill 50 Tarpat Name Sample Name	Tarpet Narre S2.15	er 40000 pie 40000 Serryle Name 52.15		28.58 	1001.4	4.77 90 90 7.00 5.00 5.00 5.00 5.00 5.00 5.00 5.0		
2 22 23 24 24 25 25 25 25 25 25 25 25 25 25 25 25 25		Isrge 4000 во Бире 4000 30 Бире 4000 30 Таграс Малне Своро Калне (1º 600 г с 600	Tanget Norme 52.15 33.20	41 40001 41 40000 41 40000 58 ergie Name 53 15 -38 19	10x1u		1051,4 1051,4	4.77 90 960 -		

The new Color Data Software SpectraMagic NX2 enables easy management of measurement data, and lets the user configure the screen with objects such as data list, spectral graph, color-difference graph, PASS/FAIL display, etc.

- Windows<sup>®</sup> 10 Pro 64 bit Version 1803 or higher,
- Windows<sup>®</sup> 11 Pro Intel<sup>®</sup> Core i5 2.7GHz or higher (recommended)
- At least 2 GB (4 GB or more recommended) 20 GB of available hard disk space
- At least 10 GB of available disk space is required on the system drive (drive where the OS is installed) for database.
- Display hardware capable of displaying 1,280 x 768 pixels/16-bit color or better
- USB or serial port required for connection to instrument. USB port required for protection key if used. Not necessary for electronic license

Windows<sup>®</sup> is a trademark or registered trademark of Microsoft Corporation in the USA and other countries.
Intel<sup>®</sup> Core is a trademark or registered trademark of Intel Corporation in the USA and other countries.