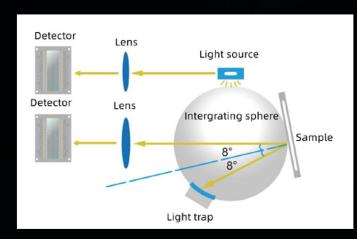
DS600 / DS620 / DS660

ULTRA-HIGH REPEATABILITY ACCURACY: DE*AB ≤ 0.02

The dual optical path design monitors light source energy fluctuations while measuring the sample signal, reducing interference during measurement, obtaining higher measurement stability and improving the instrument's measurement repeatability index to dE*ab Ø 0.02. This ensures the instrument, high standards of measurement speed, accuracy, stability and inter-stage difference consistency. The relevant technology is protected by a Chinese invention patent and a US invention patent.





INNOVATION IS THE SOUL OF CHNSPEC. AFTER NEARLY 10 YEARS OF DEDICATED RESEARCH, CHNSPEC HAS ADOPTED NANO-INTEGRATED OPTICS AS THE SPECTROSCOPIC DEVICE, WHICH CAN ACHIEVE NANO-LEVEL SPECTROSCOPIC CAPABILITY WITH ONLY 5 MICRON THICKNESS OF OPTICS, ONCE AGAIN LEADING THE DIRECTION OF INNOVATION IN THE INDUSTRY, CROSSING THE TECHNOLOGICAL BLOCKADE OF FOREIGN PRODUCTS AND GREATLY ENHANCING THE TECHNICAL PERFORMANCE OF THE PRODUCTS. THE RELEVANT TECHNOLOGY IS PROTECTED BY CHINESE INVENTION PATENTS.

ULTRA-HIGH REPEATABILITY ACCURACY: DE*AB ≤ 0.02

REPEATABILITY ACCURACY IS AN IMPORTANT INDICATOR TO DESCRIBE THE ACCURACY OF SPECTROPHOTOMETERS. THE DS600 SERIES SPECTROPHOTOMETERS ARE EVALUATED ON THE BASIS OF A RIGOROUS STANDARD OF REPEATABILITY, WHICH IS UNMATCHED BY ANY OTHER SPECTROPHOTOMETER IN ITS CLASS.



Line:@itokin2000 Tel:02-9744354-6

EMAIL: SALESITOKIN@GMAIL.COM

DS600 / DS620 / DS660

EXCELLENT INTER-STAGE CONSISTENCY
THE SUPERIOR LEVEL OF TECHNOLOGY AND CRAFTSMANSHIP ENSURES THAT THE DS600 SERIES HAS EXCELLENT INTER-INSTRUMENT AGREEMENT. THE USE OF
BCRA SERIES STANDARD COLOUR BRICKS FOR COLOUR

TRANSFER AND COLOUR VALUE TRACEABILITY GUARANTEES AN EXCELLENT LEVEL OF INTER-STAGE VARIATION.

(3) CALIBRATION BASE AND ZIRCONIUM REFERENCE WITH A MOHS HARDNESS OF 9 TO CALIBRATE THE INSTRUMENT, ENSURING LONG-TERM STABILITY

COMPARED TO EXISTING PRODUCTS, THE DS600 SERIES SPECTROPHOTOMETER DOES NOT REQUIRE FREQUENT MANUAL CALIBRATION WHEN IN USE. SIMPLY PLACE IT ON THE CALIBRATION BASE AND THE INSTRUMENT WILL AUTOMATICALLY CALIBRATE THE OVERALL INSTRUMENT FUNCTION AND ACCURACY ACCORDING TO ITS OWN STATE AND ENVIRONMENTAL FACTORS, ENSURING THAT THE INSTRUMENT IS ALWAYS IN A STABLE STATE AND READY FOR USE.

ULTRA-HIGH REPEATABILITY ACCURACY: DE*AB ≤ 0.02



THE WHITE TILE IN THE CALIBRATION BASE IS THE BASIS OF THE INSTRUMENT'S WORK. THROUGH LONG-TERM INVESTMENT AND RESEARCH, CHNSPEC HAS INTEGRATED THE "ARTIFICIAL DIAMOND" ZIRCONIUM MATERIAL AS THE CALIBRATION WHITE TILE, WITH A MOHS HARDNESS OF 9. AS THE MATERIAL ITSELF HAS THE HARDNESS AND STABILITY COMPARABLE TO DIAMOND, THE SURFACE OF THE CALIBRATION WHITE TILE WILL NOT BE SCRATCHED AND WILL NOT CHANGE COLOUR WITH CHANGES IN TEMPERATURE AND HUMIDITY. THIS IS A FURTHER IMPROVEMENT IN THE STABILITY AND DURABILITY OF THE CALIBRATION WHITEBOARD COMPARED TO SIMILAR FOREIGN AND DOMESTIC PRODUCTS THAT USE COMMON INDUSTRIAL CERAMICS OR EVEN PLASTIC AS CALIBRATION WHITEBOARDS, ENSURING THE PERFORMANCE OF THE INSTRUMENT.



THE DS600 SERIES SUPPORTS 3 MEASURING APERTURES FOR SELECTION

To facilitate the measurement of samples of different sizes, the DS600 series spectrophotometer supports three apertures for customer use: Φ 8mm/\$\Phi\$1 1mm+\$\Phi\$4mm/\$\Phi\$6mm+1*3mm, which can be flexibly applied to a variety of different usage and testing conditions.



ULTRA-HIGH REPEATABILITY ACCURACY: DE*AB ≤ 0.02

DS600 / DS620 / DS660

BUILT-IN HD CAMERA FOR CLEAR OBSERVATION OF THE MEASURED AREA

THE DS600 SERIES SPECTROPHOTOMETER CAN OBTAIN AN IMAGE OF THE MEASURED AREA THROUGH THE CAMERA WHEN MEASURING, WHICH CAN CLEARLY LOCATE THE MEASURED AREA OF THE SAMPLE AND AVOID INACCURATE MEASUREMENT DUE TO WRONG AREA.





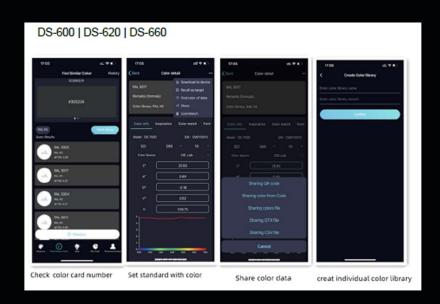
SUPPORT WECHAT APPLET, ANDROID, APPLE, HONGMENG MOBILE APP

- -THE DS600 SERIES SPECTROPHOTOMETERS CAN BE CONNECTED TO A VARIETY OF MOBILE PHONES VIA A RICH MOBILE APP.
- Users no longer have to pass on the colour values of samples and physical objects, they can easily pass on colour data via WeChat.
- Users can find the most similar colours in multiple sets of colour cards.
- Users can create personal colour databases and enter information on colour cards for printing, paint and textiles. The colour libraries created can be uploaded to the cloud for easy colour processing with data sharing across multiple devices.
- BUSINESS USERS CAN CREATE AND MANAGE THEIR OWN COLOUR CARD INFORMATION LIBRARY AND COLOUR RECIPES IN THE CLOUD, AND SHARE THE INFORMATION LIBRARY AND COLOUR RECIPES TO THEIR OWN USERS THROUGH A UNIQUE INVITATION CODE.

USE THE POWERFUL PC-BASED COLOUR MANAGEMENT SYSTEM COLOREXPERT*

THE DS600 SERIES SPECTROPHOTOMETER IS SUPPLIED WITH A WINDOWS COLOUR MANAGEMENT SYSTEM, COLOR-EXPERT, WHICH CONNECTS TO THE DS600 SERIES SPECTROPHOTOMETER VIA BLUETOOTH OR USB CABLE.

COLOREXPERT IS A FULL-FEATURED COLOUR MANAGEMENT SOFTWARE WITH FOUR FUNCTIONAL MODULES: MY COLOURS, COLOUR CHECK, COLOUR MATCHING SYSTEM AND PERSONAL CENTRE.



ULTRA-HIGH REPEATABILITY ACCURACY: DE*AB ≤ 0.02

DS600 / DS620 / DS660



IN THE 'MY COLOURS' FUNCTION MODULE, USERS CAN COLLECT OR CREATE THEIR OWN COLOUR LIBRARY FROM HUNDREDS OF OTHER USERS' OWN SHARED COLOUR LIBRARIES. THE PC SOFTWARE AND MOBILE APP CAN SHARE ACCOUNTS AND THE COLOUR LIBRARY DATA FOLLOWS THE ACCOUNT TO SYNCHRONISE INFORMATION BETWEEN PC AND MOBILE.

IN THE 'COLOUR QC' FUNCTION MODULE, THE USER CAN CALIBRATE, MEASURE AND SET UP THE SPECTROPHOTOMETER VIA THE PC SOFTWARE. THE USER CAN USE COLOURS FROM THE CLOUD DATABASE AS SPECIMENS TO MEASURE COLOUR DIFFERENCES, VIEW SPECTROGRAMS, COLOUR DIFFERENCE GRAPHS, SPECIMEN TRIAL DATA AND EXPORT THE DESIRED DATA TEST REPORTS.

THE "COLOUR MATCHING SYSTEM" FUNCTION MODULE PROVIDES THE USER WITH A MORE CONVENIENT AND EFFICIENT COLOUR MATCHING PROCESS. AFTER THE COLOUR OF THE SAMPLE HAS BEEN MEASURED BY THE INSTRUMENT, THE SYSTEM CALCULATES THE RECIPE IN THE RECIPE CENTRE AND AUTOMATICALLY FIXES THE COLOUR TO ACHIEVE AN ACCURATE MATCH. THE SYSTEM IS SUITABLE FOR COMPUTERISED AUTOMATIC COLOUR MATCHING APPLICATIONS IN THE PAINT, COATING, PRINTING AND TEXTILE INDUSTRIES.



THE 'PERSONAL CENTRE' FUNCTION ALLOWS USERS TO EDIT THEIR PERSONAL INFORMATION, SEARCH FOR OR DELETE CONNECTED INSTRUMENTS, MANAGE DOWNSTREAM USERS AND MANAGE THE COLOUR LIBRARY SHARED WITH DOWNSTREAM USERS.



ULTRA-HIGH REPEATABILITY ACCURACY: DE*AB ≤ 0.02



DS600 / DS620 / DS660

Product model	DS-600	DS-620	DS-660
Geometry Test Mode	D/8,SCI	D/8,SCI+SCE	
Repeatability	dE* _{ab} =0.04	dE* _{ab} =0.03	dE* _{ab} =0.02
Inter-instrument Agreement	dE*ab=0.4	dE*ab=0.3	dE*ab=0.2
Display Resolution	0.01		
Test Aperture	Φ11mm	Φ11mm, Φ6mm & 1*3mm	
Color Spaces and Indices	Reflectance, CIE-Lab, CIE-LCh, HunterLab, CIE Luv, XYZ, Yxy, RGB, Color difference (ΔΕ*ab, ΔΕ*cmc, ΔΕ*94,ΔΕ*00),WI(ASTM E313-00,ASTM E313-73,CIE/ISO, AATCC, Hunter, Taube Berger Stensby), YI(ASTM D1925,ASTM E313-00,ASTM E313-73), Blackness (My,dM),Color Fastness, Tint,(ASTM E313-00),Color Density CMYK(A,T,E,M), Milm, Munsell, Opacity, Color strength		
Illuminant	A,B,C,D50,D55,D65,D75,F1,F2,F3,F4,F5,F6,F7,F8,F9,F10,F11,F12,CWF,U30,U 35,DLF,NBF,TL83,TL84,ID50,ID65,LED-B1,LED-B2,LED-B3,LED-B4,LED- B5,LED-BH1,LED-RGB1,LED-V1, LED-V2		
Light Source	LED	L	ED+UV
Measurement observation method	Visual	(Camera
Calibration	Auto calibration		
Software support	Windows	Andriod	,iOS,Windows
Observer	2°, 10°		
Integrating Sphere Diameter	40mm		
Standards	CIE No.15,GB/T 3978,GB 2893,GB/T 18833,ISO7724-1,ASTM E1164,DIN5033 Teil7		
Ways of spectral	Nano-integrated spectral devices		
Sensor	Silicon photodiode array Dual 16-group		
Wavelength interval	10nm		



ULTRA-HIGH REPEATABILITY ACCURACY: DE*AB ≤ 0.02



DS600 / DS620 / DS660

400-700nm (user viewable reflectance at 31 wavelengths)		
0-200%		
0.01%		
Single measurement, average measurement (2 to 99 measurements)		
	1 second	
USB	USB, Bluetooth	
Screen Full Colour Screen, 3.5 inches		
8,000 continuous measurements on a single charge		
10 years and 1 million tests		
95 x 129 x 215mm (L x W x H)		
Chinese & English		
10,000 pcs of sample	Instrument :10,000 pcs of sample ; APP: mass storage	
	Single measurement, USB Scree 8,000 continu	

- * Diffused illumination / Aন্ত্ৰ viewing with specular component included / specular component excluded
- ** When a white tile is measured 30 times at 5-second intervals after white calibration
- ***BCRA Series II average of 12 colour plate measurements





