



ColorSee - 3700D Spectrophotometer



EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

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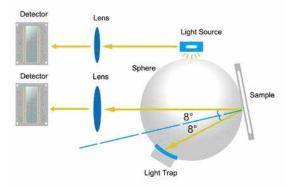
Product Advantage:

Excellent repeatability and inter-instrument agreement
repeatability : dE*ab≤ 0.04 (max.) and inter-instrument agreement : ≤0.25
Test result is accurate and reliable to ensure the consistency of the measurement data of multiple devices, which can be used for color matching and accurate color communication.

2). It can pass metrology of level I.

3). Dual optical path array sensor

The dual optical path design monitors the energy fluctuation of the light source while measuring the sample signal, reduces interference during the measurement, and obtains better measurement repeatability. The usage of large-area dual-array sensors provides higher spectral response sensitivity, and ensures fast measurement speed, accuracy, stability and consistency between multiple devices.



4). Intelligent auto calibration, white tile is made by ZrO2 with reflectance more than 90%, no need for frequent white calibration.

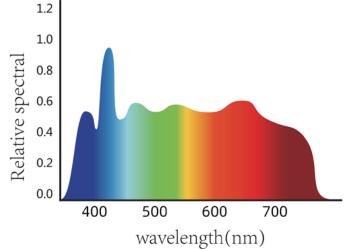
The instrument is placed on the intelligent calibration base, and the instrument can be automatically calibrated without manual intervention through the white tile on the base. It has changed the current situation that traditional instruments must be manually calibrated with white tile. The white tile is made by ZrO2 with reflectance more than 90%, which ensures excellent mechanical strength and weather resistance, and will not be scratched or discolored after long-term use.





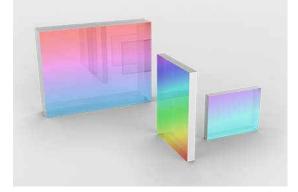
5). 360-700nm Full Wavelength Balanced LED+UV

The instrument adopts a full wavelength balanced LED and UV as the illuminant, ensuring sufficient spectral distribution in the visible and ultraviolet bands, and materials with fluorescent can also be measured.



6). 10nm Resolution Grating Spectroscopy Technology

The grating combined with the array sensor made by the innovative MEMS process makes color measurement more accurate based on the 10nm spectral resolution.



7). Three aperture as standard accessories, no tools are needed and apertures can be replaced at any time to meet different sample measurement requirements Spectrophotometer 3700D comes with three apertures 11mm/6mm/1*3mm.



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8). More than 30 kinds of color indices and 37 kinds of illuminants

3700D provides a variety of color indices and evaluation illuminants that comply with international standards. A variety of light sources and color indices can be flexibly chosen through the mobile phone app or PC software.



9). It supports Android, IOS and Windows program.



10). It is with the camera to see the measurement area clearly.



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Technical Parameter:

Model	Spectrophotometer 3700D
Geometry	d/8, SCI+SCE(diffused illumination,8° viewing, Specular Component Included, Specular Component Excluded)
Repeatability	Chromaticity value: Standard deviation within ΔE*ab ≤ 0.025 Average :dE*ab< 0.025 Max. :dE*ab≤ 0.04 (when a white tile is measured 30 times at 5-seconds interval) Reflectance: Standard deviation < 0.08%
Inter-instrument agreement	ΔE*ab < 0.25 (BCRA Series II , average measurement of 12 tiles)
Display Resolution	0.01
Illumination Area/Aperture	MAV:Ф8mm/Ф11mm SAV:Ф4mm/Ф6mm MINI:1*3mm
Color Spaces and Indices	Reflectance, CIE-Lab, CIE-LCh, HunterLab, CIE Luv, XYZ, Yxy, RGB, Color difference(ΔE*ab, ΔE*cmc, ΔE*94,ΔE*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
Illuminants	A,B,C,D50,D55,D65,D75,F1,F2,F3,F4,F5,F6,F7,F8,F9,F10,F11,F12,CWF,U30, U35,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(Full wavelength balanced LED) + UV
Wavelength Range	400-700nm
Camera to see	
the measurement area	Yes
Calibration	Intelligent auto calibration

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Software	Android, IOS, Windows
Observer Angles	2°,10°
Sphere Size	40mm
Standards	Conform to CIE No.15, GB/T 3978, GB 2893, GB/T 18833, ISO7724-1, ASTM E1164, DIN5033 Teil7
Spectroscopic method	Grating spectroscopy
Sensor	Dual array sensor
Wavelength Interval	10nm
Wavelength Range	0-200%
Reflectance Resolution	0.01%
Measurement Time	< 2s
Interface	USB, Bluetooth
Screen	IPS Full Color Screen,3.5 inches
Battery	Rechargeable, 8000 times continuous tests, 3.7V/3000mAh
Lamp Lifetime	10 years, 1 million tests
Language	English
Instrument Size	95 x 129 x 231mm (L x W x H)
Instrument Weight	about 750g
Storage Memory	APP Mass Storage100 pcs of target from instrument

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Application:







>> Packing List:



Name

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Main Instrument European /American Plug Apertures Charge and Calibration Base USB Cable U-disk (PC software) Operating Manual Black Carrying Case White Packing Box



HPLC Servicing, Validation, Trainings and Preventive Maintenance :

HPLC Servicing : HPLC Servicing : We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost. Trainings :We also take up preventive Maintenace to reduce downtime of HPLC's Trainings. AMC's/CMC :AMC's/CMC :We offer user training both in-House and at customer sites on HPLC principles, operations, troubleshooting.

Validations :Validations :We have protocols for carrying out periodic Validations as per GLP/GMP/USFDA norms.

:Instruments :We offer instruments/Renting Services Modules like pumps,detector etc. on Rent. Instruments



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DSC/TGA







Optima Gas





Semi Auto Bio







Chemistry Analyzer





Chromatograph



URINOVA 2800

Urine Analyzer





Total Organic





Fully Automated CLIA

NOVA-2100 Chemistry Analyzer

PCR/Gradient PCR/ RTPCR

TOC Analyzer

Laser Particle Size Analyzer

Ion Chromatograph

Water purification system







Liquid Partical

Counter

Atomic Absorption Spectrophotometer

Carbon 3800





HEMA 2062

Optima Gas













Regulatory compliances



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2. Improving quality of life by offering YOGA Training courses, Work shops/Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXIFY human minds, souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.



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