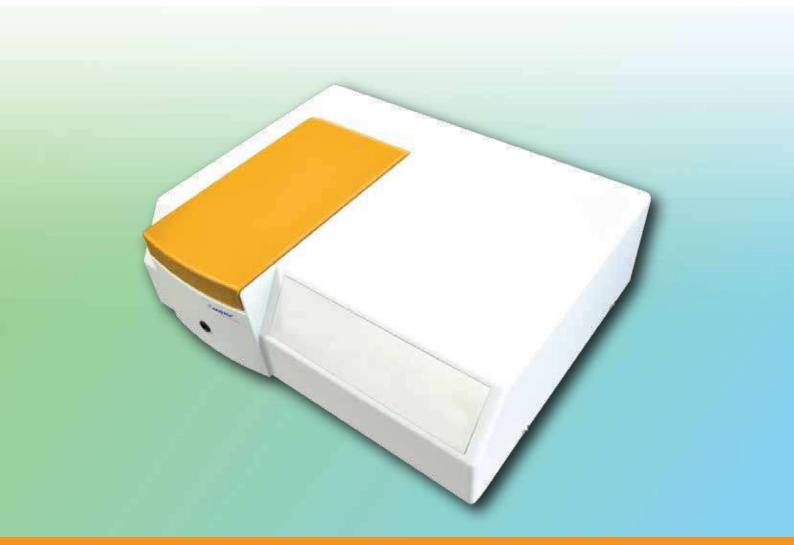




APHA Spectro 3810



EPC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net



Product Advantage :

Glass and Liquid Color Measurement:

APHA Spectro 3810 transmittance spectrophotometer is specially designed for measuring the material transmittance, absorbance, concentration, chromaticity and other datas. It adopts D/O structure, CLEDS, double optical path spectrum analysis technology and every test calibration technology. Instrument resolution reaches 0.0001, transmittance repeatability standard deviation is within 0.08% and chromaticity value ΔE^* ab 0.015.

Adopts CLEDs illuminant

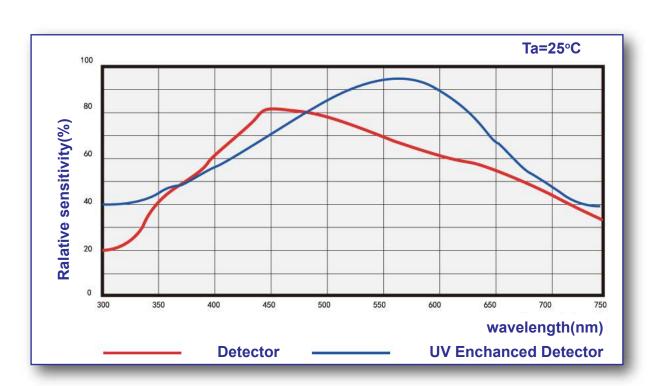
Full-band balanced light source which ensures adequate spectral distribution in the visible range, to avoid the spectral loss of white LED in a particular band, improve the measurement speed and results accuracy.

Every Test Calibration

The standard white board is inside the optical system for has reliable accuracy and repeatability in each test.

Usage of U V-enhanced Silicon Photodiode

Transmittance measure range improved from 0-100% to 0-200%





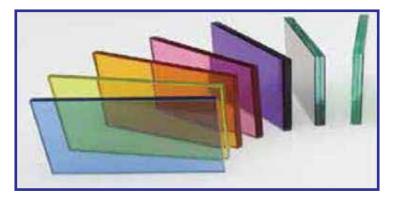
▶▶ Application Example :



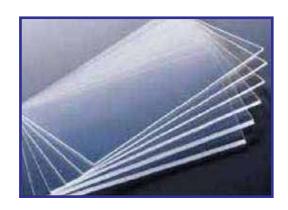
Clear liquid



Solvent



Glass



Transparent Plastic

>> Technical Data:

Туре	APHA Spectro 3810
Illumination/viewing system	Viewing degree :2deg and 10deg Illumination :d /0(Diffused illumination, 0°viewing) conform to CIE No.15, ISO 7724/1, ASTM E1164,DIN 5033 Teil7, JIS Z8722 Condition c standards)
integrating sphere	Ф40mm,Alvan diffused reflection surface coating
Illumination Light source	CLEDs / Xenon lamp
Sensor	dual light path sensor array
Wavelength range	400-700nm
Wavelength interval	10nm
Half spectral width	5nm
Reflectivity range	0-200%
Reflectivity resolution	0.01%
Power	AC 100 to 240V



Measurement light source	A,C,D50,D55,D65,D75,F1,F2,F3,F4,F5,F6,F7,F8,F9, F10,F11,F12, CWF,U30,DLF,NBF,TL83,TL84
Data being displayed	Transmittance graph/value, chromatic value, color difference, color values (K/S), color assessment results, color tendency, history, color value simulation, manual input standard sample, generate measurement reports color difference, whiteness, yellowness and brightness index, metameric index and recipe prediction, Observer -2° and 10°.
Measurement time interval	2 seconds
Measurement time	0.5 seconds
Measurement caliber	25.5*10mm()cuvette support)
Color space	CIE-L*a*b,L*C*h,CIE-L*u*v, XYZ, Yxy, Transmittance, Hunterlab, Munsell MI, CMYK
Color difference formulas	Δ E*ab, Δ E*CH, Δ E*uv, Δ E*cmc(2:1), Δ E*cmc(1:1), Δ E*94, Δ E*00 Δ Eab(Hunter),555color classification
Other indicators	WI(ASTM E313-10,ASTM E313-73,CIE/ISO, AATCC, Hunter, Taube Berger, Ganz, Stensby), YI(ASTM D1925 ASTM E313-00,ASTM E313-73), Tint(ASTM E313-00, CIE,Ganz),Metamerism index Milm, Stick color fastness, Color fastness, APHA, Pt-Co, Gardner, Saybolt, Astm color
Repeatability	Transmittance ,standard deviation within 0.08% chromatically value :ΔE*ab<=0.015(After calibration, standard deviation of 30 measurements on test white board, 5 second intervals,Maximum:0.03)
Inter instrument agreement	Within ΔE*ab 0.2
Interface	USB
Data storage	mass storage
Light source longevity	5 years, 1.5 million tests
Size	475*340*150mm(L*W*H)
Work temperature range	0~45°C, relative humidity 80% or below (at 35°C), no condensation
Storage temperature range	25°C to 55°C, relative humidity 80% or below (at 35°C), no condensation
Standard accessories	AC power line, color management software, drive software, USB cable, black calibration tube, 40*10mm cuvette



>> HPLC Servicing, Validation, Trainings and Preventive Maintenance:

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 maintenance to reduce downtime of HPLC's Trainings.

AMC's/CMC : We offer user training both in-House and at customer sites on PLC principles, oper-

ations, troubleshooting.

Validations : We have protocols for carrying out periodic Validations as per GLP/ GMP/U SFDA

norms.

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





About Analytical Technologies

Analytical Technologies is synonymous for offering technologies for doing analysis and is the Fastest Growing Global Brand having presence in at least 96 countries across the globe. Analytical Technologies Limited is an ISO:9001 Certified Company engaged in Designing, Manufaturing, Marketing & providing Services for the Analytical, Chromatography, Spectroscopy, Bio Technology, Bio Medical, Clinical Diagnostics, Material Science & General Laboratory Instrumentation. Analytical Technologies, India has across the Country operations with at least 4 Regional Offices, 6 Branch Offices & Service Centers. Distributors & Channel partners worldwide.

>> Our Products & Technologies



UV/VIS Spectro 2060+ Double Beam



FTIR



Gas Chromatograph 3000



Gas Chromatograph 2979 Plus



Flash Chromatograph



Atomic Absorption
Spectrophotometer



Liquid Partical Counter



Optical Emission Spectrophotometer



DSC/TGA



NOVA 2020 plus Automated Bio Chemistry Analyzer



HEMA 2020 Hematology Analyzer



Micro Plate Reader/Washer



URINOVA 2800 Urine Analyzer



Total Organic Carbon



Fully Automated CLIA



NOVA Basic Semi-Auto Chemistry Analyzer



PCR/Gradient PCR/ RTPCR



Blood Gas Analyzer



Random access Analyzer for immunoassay Proteins & clinical chemistry



Semen Analyzer



Water purification system

Regulatory compliances



>> Corporate Social Responsibility



Analytical Foundation is a Nonprofit Organization (NGO) found for the purpose of:

- 1.Research & Innovation Scientist's awards / QC Professional Award: Quality life is possible by innovation only and the innovation is possible by research only, hence ANALYTICAL FOUNDATION is committed to identify such personallities for their contributions across various field of Science and Technology and awarding them yearly. To participate for award, send us your details of research / testing / publication at info@analyticalfoundation.org
- 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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