1500UV

Diode Array Based UV Visible spectrophotometer





Introduction

Our latest offering is the 1500UV, which is polychromatic based UV Visible spectrophotometer with CCD/CMOS detector and Xenon lamp as the light source.

The diode array allows simultaneous spectral recording

from 190.0 to 950nm in less than 1 second.

The portable nature of the system, coupled with no mechanical movement results into an extremely rugged system. The ultra-fast module is our inhouse developed AlphaCapture platform. This makes the system ideal for high end applications like scanning, pharmaceutical, water testing.

In built

DesktopOS

8" Capacitive **Touchscreen**

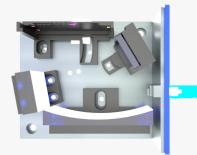
In built

Wifi & Lan

CFR 21 App



The diode array based polychromator is based on our ALPHACAPTURE platform.



The above diagram shows the internals of the system. The light enters through a slit and is collected by a collimating mirror, received by the Grating and focused by a focusing mirror over the detector. Usage of special metal alloy with lowest thermal expansion coefficient allows stable results in huge temperature ranges.

Features

- Rugged with no moving components
- User selectable integration time
- Built in desktop grade OS with high resolution LCD touch screen display
- Rugged design / No moving parts
- 190-950nm spectral range
- 1nm resolution
- Powerful SDK
- Self-diagnostic
- External calibration available to user
- CFR21 part 11 complaint software with database support to capture all events and results generated by the software

Parameter	Details	Parameter	Details
Wavelength Range	190.0-950.0	Stray Light	>3.0 @ 340nm
Photometric System	Single / Split Beam	Photometric Readability	-3.0A to 3.0A upto 8 using k-Factor
Grating	600/800/1000/1200 lines/mm	Transmittance Range	0% to 400%
Spectral Bandwidth	1.0nm	ABS Repeatability	0.008
Detector	CMOS with 3648 Element	Light Source	Xenon Lamp
Wavelength Increment	0.1nm	Software	Scanalyse(r) with CFR21 compliance
Data Interface	USB	Touch screen configuration	NA
Noise Level	0.005 A	Weight	600gms
Wavelength Accuracy	0.1nm @ 656.1nm	Environmental Requirements	Temperature = 10c to 40c Humidity = 0% to 80%
Wavelength Repeatability	0.3nm	Power Requirements	100V - 290V AC 12V DC @ 2.5 A
Full spectrum scan time	0.1 Seconds	Dimensions	26.0x302.0x98.0 mm
Photometric Accuracy	0.002 A @ 0.5 A	Baseline Stability	0.005

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