

OPTIZEN Alpha

The luxuriously designed OPTIZEN Alpha is spectrophotometer to use double-beam method.

OPTIZEN Alpha can grasp the quantitative characteristics such as density or purity by measuring transmittance or optical density according to wavelength of sample in the range of ultraviolet rays and visible ray. OPTIZEN Series can be utilized from not only a general analysis experiment to but also a specialized research field and guarantee accurate measurement and excellent reproducibility, accordingly offer reliable results in the various fields such as environment, biotechnology, chemistry, etc.



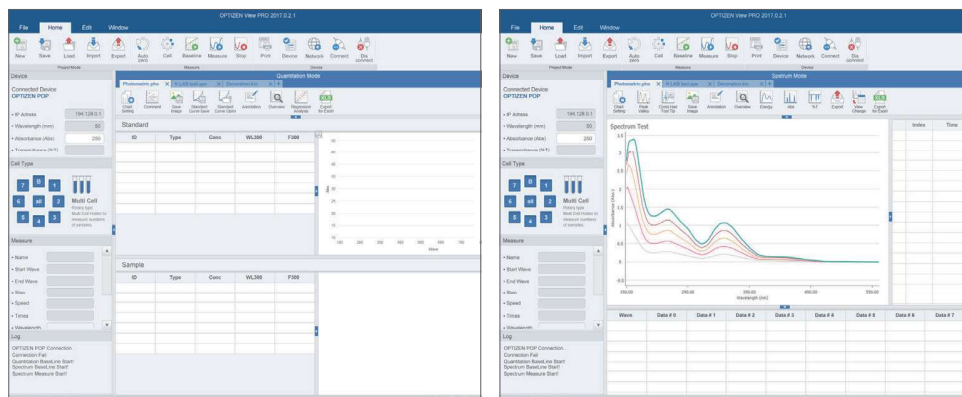
The previous single beam type spectrophotometer has a weak point of error occurrence in measuring a sample, because of the movement of a light source by time lag in measuring the strength of between a reference light and a light from sample. To solve the problem, OPTIZEN Alpha was designed as a double-beam type spectrophotometer. The system utilizes an additional reference beam to improve the measurement performance by compensating the intensity fluctuation of its light source.

OPTIZEN Alpha main characteristics

- A world-class measurement performance
- Wide-size color screen (ALPHA: 8")
- Various cell compatibility and fast cell type choice
- Automatic measurement of lots of samples by equipping multi-cell.
- Convenient voice service and volume control
- Emotional design

- Offering self-diagnosis function
- Easily and quickly call up the information that is being measured or analyzed by registering it in you favorites.
- Changing to the remote mode and then can link it with PC by using OPTIZEN View.
- The measurement is possible in the optimal condition by checking the equipment's operation time, lamp warm up condition and accumulated using time in real time.
- OPTIZEN Alpha's login function can prevent the measured data from leaking to many and undesigned persons.

OPTIZEN View



OPTIZEN View, PC-Interface software of OPTIZEN Series, enables the user to check and control the result of sample measurement in real time in Windows® environment and facilitate the general management related to the device and the measurement.

Specifications

Photometrics System	Double-beam type		± 0.0002 at 0.5 A
Light Source(s)	Tungsten Halogen Lamp & Deuterium Lamp	Photometric Repeatability	± 0.0006 at 1.0 A
	(Built-in light source auto interchanging motor)		± 0.001 at 2.0 A
Detector	Silicon Photodiode	Baseline Stability	< 0.0003 A/h
Spectral Bandwidth	1 nm (190 - 1100 nm)	Baseline Flatness	$< \pm 0.0005$ A
Wavelength Range	190 - 1100 nm	Stray Light	$< 0.02\%$ NaI at 220 nm, NaNO ₂ at 340 nm
Wavelength Display (setting)	0.05 nm	Monochromator	Czerny-Turner type with 1200 lines/nm blazed grating
Wavelength Accuracy	± 0.3 nm (For entire range)	Standard Cell Holder	Automatic Rotary type 8-position Multi-Cell Holder
	± 0.1 nm (656.1 nm)	Operating System (OS)	Windows® 10 (Embedded PC)
Wavelength Repeatability	$< \pm 0.1$ nm	Display	8 inch color LCD with touch screen
Slew Rate	About 45,000 nm/min	Control Options	Onboard with built-in touchscreen, Computer
Scanning Speed	max 6,000 nm/min	Dimensions(W*D*H)	520 mm*500 mm*200 mm
Photometric Range	Absorbance: -4 A - 4 A	Power Requirement	100 - 240 V; 50 - 60 Hz
	Transmittance: 0% - 400%	Weight	14 kg
Photometric Accuracy	Less than ± 0.005 A at 1.0 A	PC Software	(included) OPTIZEN View for Windows®