

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.







Main Charateristics

- 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

Product Qualification

Photometrics System	Double-beam type
Monochromator	Czerny-Turner type with 1200 lines/nm blazed grating

Light Source	Tungsten Halogen Lamp & Deuterium Lamp
Lamp interchange Wavelength	340~410 nm (Default 370 nm)
Detector	Silicon Photodiodes
Spectral Bandwidth	1 nm (190 to 1100 nm)
Wavelength Range	190 to 1100 nm
Wavelength Setting	0.05 nm
Wavelength Accuracy	± 0.3 nm (For entire range) ± 0.1 nm (656.1 nm)
Wavelength Repeatability	$< \pm 0.1$ nm
Slew Rate	About 8,800 nm/min
Scan Speed	max 6,000 nm/min
Photometric Range	Absorbance : -4 to 4 Abs Transmittance : 0 % to 400 %
Photometric Accuracy	± 0.002 Abs at 0.5 Abs ± 0.004 Abs at 1.0 Abs ± 0.006 Abs at 2.0 Abs
Photometric repeatability	± 0.0002 at 0.5 Abs ± 0.0006 at 1.0 Abs ± 0.001 at 2.0 Abs
Baseline stability	< 0.0003 Abs/h
Baseline flatness	$< \pm 0.0005$ Abs
Stray light	< 0.02 % NaI at 220 nm, NaNO_2 at 340 nm
Standard cell Holder	Automatic Rotary type 8-position Multi-Cell Holder
Operating system(OS)	Windows 10 (Embedded PC);

Display	8-inch color LCD with touch screen
Power Requirement	100~240 V; 50~60 Hz
Dimensions(W x D x H)	520(W) x 500(D) x 200(H)
Weight(kg)	14 kg
PC Software	(optional) OPTIZEN View for Windows® (optional) OPTIZEN Secure™

* The contents of this document may be changed without notice.

- **Product details**

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.

- **Product Information**

- 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 undesignated persons.