

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.



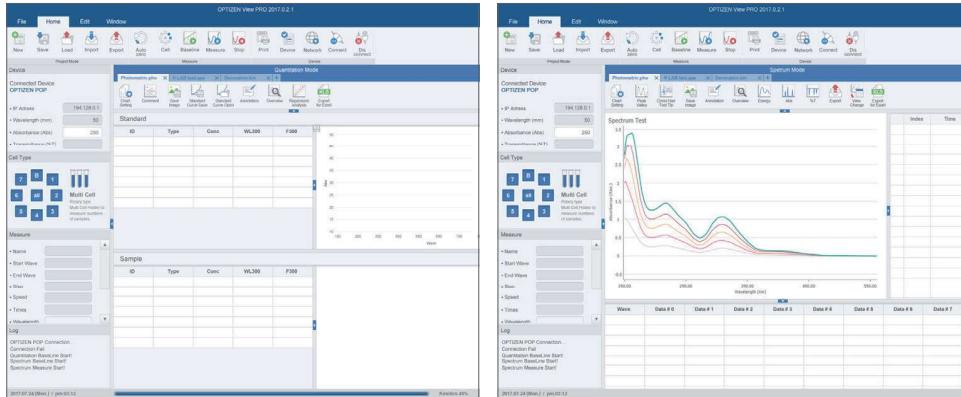
The previous single beam type spectrophotometer has a weak point of error occurrence in measuring a sample, because of the movement of a light source by time lag in measuring the strength of between a reference light and a light from sample. To solve the problem, OPTIZEN Alpha was designed as a double-beam 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 undesignated 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 (Built-in light source auto interchanging motor) | Photometric Repeatability | ± 0.0006 at 1.0 A ± 0.001 at 2.0 A |
| Detector | Silicon Photodiode | Baseline Stability | < 0.0003 A/h |
| Spectral Bandwidth | 1 nm (190 - 1100 nm) | Baseline Flatness | < ± 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 | < ± 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® |