

COMPANY PROFILE

Mecasys was established in 1994, an CE, ISO 9001: 2000, EC certified Technology Company which designs, develops and manufactures Analytical Instruments and offers high-end solutions in the field of Analytical Instruments, Embedded Systems and Application Software Development.

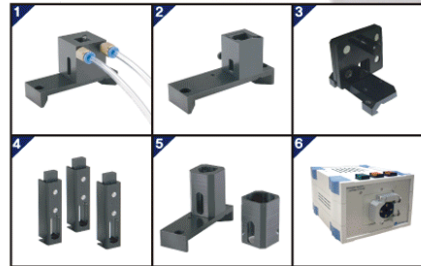
Analytical Instruments (Design & Manufacture)

Blood-chemistry.
Water quality.
Fluorescence, UV-Vis, Visible, etc.
and Fully automated nucleic acid preparation.

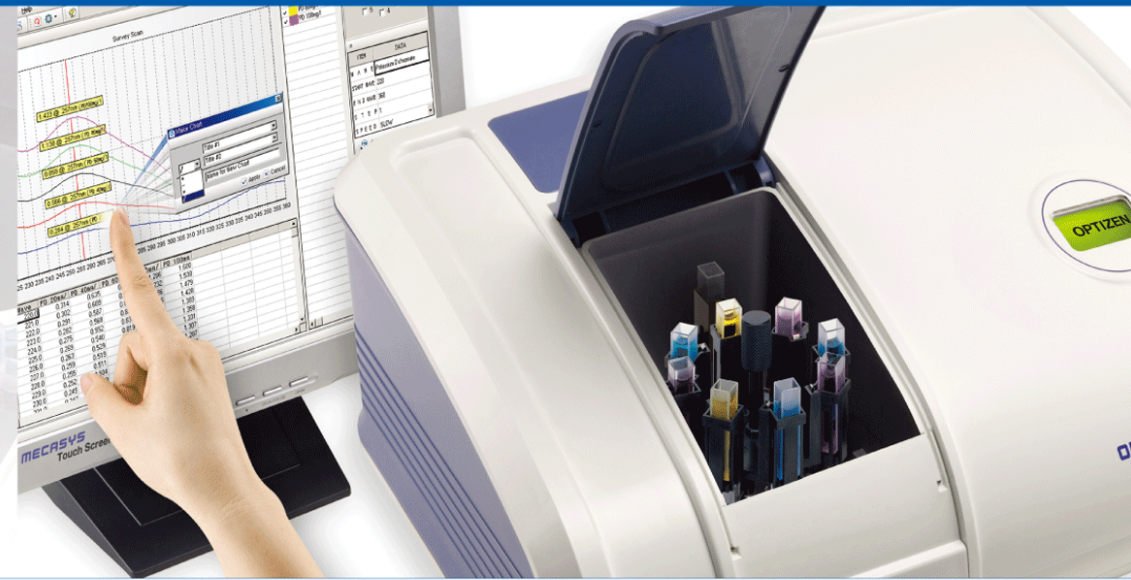
Universities and Research establishments — Best use

- Food & Beverages
- Diagnostic kits
- Department of agriculture
- Clinical laboratories
- Hospitals use:
Blood chemical analyzer,
RNA/DNA analyzer
- Pharmaceutical
- Pollution control
- Ocean science
- Water quality analyzer
- Mines & Geology

ACCESSORIES



1. Temperature cell holder
- Water/Oil circulator type temperature range : Circulator spec.
- Peltier driver type temperature range : 5°C ~ 80°C
2. Micro volume cell holder
≤ 1000μl Single cell holder
- Pathlength : 10mm, Center height : 8.5mm
3. Film cell holder-Wide
Sample limit : Thickness - 5mm / w X h : 60mm X 45mm
4. Film cell holder-Small
Sample limit : Thickness - 2mm / w X h : 10mm X 30mm
5. Round cell holder
When test tube is used, single cell holder
- Test tube deepness : 16mm, 25mm
6. Sipper system
- In take volume : ≤ 70μl



1 year AS guarantee

SYSTEM CONFIGURATION

UV/Vis Spectrophotometer (Double beam type)
Automatic rotary type 8 cell holder
OptizenView (Software) : For customizing, please ask your local sales officer or contact overseas@mecasys.co.kr



▶ **Certifications in Korea**



▶ **Other products**

- Portable Spectrophotometer : OPTIZEN MINI
- Visible Spectrophotometer : OPTIZEN 1412V
- UV/Vis Spectrophotometer : OPTIZEN 2120UV/2120UVplus
- NanoBiometer : OPTIZEN 3220UV^{bio}
- Hexachrometer : OPTIZEN 2120V^{cr}
- Clinical Chemistry Analyzer : OPTIZEN 1412H/1412HF
- Agro-Chemical Detector : OPTIZEN MINI-SP/1412-SP
- Soil Analyzer : OPTIZEN 1412SA

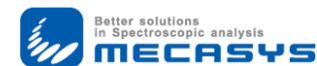
Double Beam UV/Vis Spectrophotometer

OPTIZEN 3220UV



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Double Beam UV/Vis Spectrophotometer

OPTIZEN 3220UV

OPTIZEN 3220UV is very much ideal for analyzing components that require multiple wavelengths, time course operations, and getting stable data sheets.

Features

- More powerful in information technologies in your lab.
- Better in holding memories.
- USB ports for user-friendly programming updates and other accessory connections.
- Universal sample cell holder holds 8 cells.
- Rotating cell holder (8 cells and one blank)
- Supurb optics for maximized accuracy.
- Exceptional precision and reliability.
- User-friendly software with scanning and time course capabilities.
- Versatile data processing.

For Better

- Embedded system solution
- Upgrade software service on networking
- Touch screen control : Option

For Human

- User-friendly 8 cell rotating cell holder
- Self-checking system for start
- Good design

Standard Accessories

- 8 cell automotive rotating holder
- Embedded XP based program
- 17 Inches TFT- LCD monitor
- Keyboard
- Mouse
- Software : OptizenView 2005
- Upgrading software : Free
- Power system : 110V/220V available (Ask your nearest distributor)
- Option : Touch-screen (Ask your nearest distributor)
- Other accessories available (Ask your nearest distributor)

What is nice about OPTIZEN 3220UV ?

- Expand your laboratorial work using ultraviolet (UV) testing capabilities for applications and measurement requiring wavelengths not available on visible-light-only spectrophotometer, and advanced applications available using double beam light sources.
- Fast analysis of a wide range of samples and capable your analysis to put out experiments using programmed procedures.
- Even more powerful in information technologies so that you will be able to work out in your home by using internet.
- Bigger storage capacity than any others.
- Simple kinetics using time-course measurement or complete other research projects using its double light source ability to automatically complete multiple scans.
- OPTIZEN 3220UV has capabilities with a range of 190nm to 1100nm.

Hardware Specification

Photometric System Double beam optics

Spectral Band pass width < 1.0nm

Wavelength Range 190nm to 1100nm

Wavelength Accuracy < ± 0.3 nm
(at D2 peak 656.1 nm, 486.0nm)

Wavelength Reproducibility < ± 0.1 nm

Wavelength Setting 0.1nm

Wavelength Slew Rate about 5000nm/min

Wavelength Scanning Speed Max. 3000nm/min

Photometric Range - 0.4 to 4.0ABS

Photometric Accuracy ± 0.004 ABS (at 1.0 ABS)

Photometric Reproducibility ± 0.002 ABS (at 1.0 ABS)

Stray Light < 0.05%T (220nm, 340nm)

BaseLine Flatness < ± 0.001 ABS
(200nm to 1100nm)

Noise Level < 0.001A

Drift 0.002A/hr at 340 nm

Stability < ± 0.002 A/hr

Light Source Tungsten-halogen lamp and deuterium lamp

Lamp Change Wavelength 340nm to 410nm (default 370nm),
Include auto position system

Monochromator Modified czerny-turner type with 1200
lines/mm blazed grating

Detector Dual silicone photodiode

Power Requirement AC 220V, 50/60Hz (Please confirm
power rate of your area)

Dimensions 600(w) X 440(d) X 250(h) mm

Weight 16kg

