

# Spectrophotometer

IG-27DS Touch



**IGENE LABSERVE**

Innovative • Interactive • Intuitive

# FEATURES & SPECIFICATIONS

## DESCRIPTION

Spectrophotometer is an instrument which measures the amount of light that a sample absorbs. Steady, modern, and elegant appearance design. Adopt the newest microcomputer technology and electronic control system. Optimized optical system and structure can both extend new functions and ensure the accuracy, stability, and durability. This instrument is widely used in petroleum, chemical, pharmaceutical and sugar, refining, research, and food industries. This spectrophotometer also has wide scope of use in related colleges, universities & scientific research institutions for meaning the photometric value of samples.

## FEATURES

- With spectral scanning function
- Can measure up to 6 wavelengths at a single time
- Large touchscreen for ease
- Parallel port & USB port
- Imported lamps & sensor results in perfect measurements
- Two detectors are used to measure sample and reference respectively and simultaneously
- Improved Circuit: Improved design prevents circuit fluctuations and stray light to ensure stability of the instrument.
- Sturdy Design: It uses a rigid base to ensure stability & reliability
- Large Touch screen Display: It sports a large touchscreen display to show results and curves directly on the screen
- Multi functions in the software enables the user to toggle bet wean variety of functions such as wavelength scanning, standard curve, kinetics, multi wavelength scanning, DNA/protein test
- Data can be saved in csv file. Data can be exported through a USB drive & Bluetooth.
- Has a function for filtering & smoothing the peaks of measurement .Customizations are available.

## STANDARD ACCESSORIES:

- Software
- 10mm Glass Cuvette
- 10mm Quartz Cuvette
- Instruction Manual
- Power Cord



# SPECIFICATIONS

<b>Model</b>	<b>IG-27DS Touch</b>
<b>Bandwidth</b>	01 nm
<b>Cell Holder</b>	Sample & reference cuvette holder (both 10mm)
<b>Optical System</b>	Double Beam (1200 lines/mm Grating)
<b>Wavelength Range</b>	190 ~ 1100 nm
<b>Wavelength Accuracy</b>	± 0.3 nm
<b>Resolution</b>	0.1nm
<b>Wavelength Repeatability</b>	± 0.2 nm
<b>Scanning Speed</b>	High, Medium, Low (Max. 3000 nm/min)
<b>Photometric Range</b>	-4 ~ 4A, 0~999.9%T, 0~9999C, 1~9999F
<b>Photometric Accuracy (T)</b>	± 0.3%T
<b>Photometric Repeatability</b>	0.2%T
<b>Stability</b>	± 0.001 A/h (700 nm, preheating for 1 hr)
<b>Focal length</b>	0-49mm
<b>Photometric Accuracy(A)</b>	≤±0.002A(0~0.5A), ≤±0.004A(0.5~1A), ≤±0.006A(>2.0)
<b>Baseline Flatness &amp; noise</b>	± 0.001A/h
<b>Stray Light</b>	<0.05%T @220nm, 360nm
<b>Scanning speed</b>	3000-6000nm/min
<b>Data Output</b>	USB
<b>Printer Port</b>	Parallel Port
<b>Display</b>	Touchscreen
<b>Lamps</b>	D2 & Tungsten Halogen Lamp
<b>Detector</b>	Silicone Photodiode
<b>Power Supply</b>	AC 220V / 50Hz
<b>Dimensions &amp; Weight</b>	650 x 450 x 220mm & 25kg)