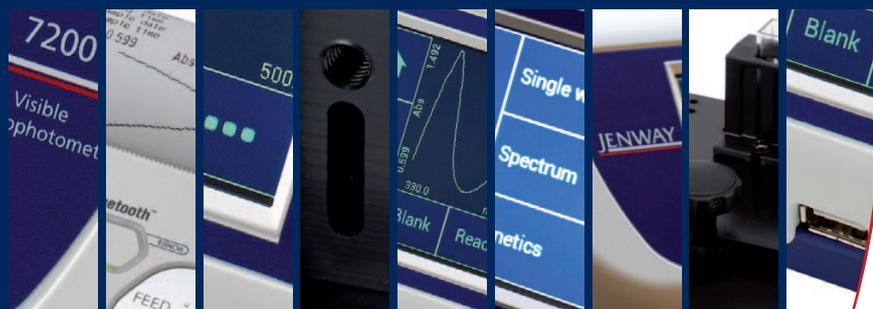




JENWAY

7200 Visible Scanning Spectrophotometer

Part of the extensive range of Jenway spectrophotometers



 Cole-Parmer®

Introducing the Model 7200

Model 7200 is the first visible scanning spectrophotometer in the Jenway range to leverage diode array technology to produce fast results. Covering a wavelength range of 335 to 800nm and a spectral bandwidth of 7nm, this spectrophotometer is ideal for a variety of applications in education and routine testing in clinical, veterinary, pharmaceutical and QC laboratories.

This Jenway spectrophotometer is covered by a two year warranty.

Model 7200 offers measurement modes for single wavelength with basic absorbance and % transmittance; concentration calculated using a standard or a factor; optical density; quantitation with the ability to create a calibration curve using up to 6 standards; full spectrum scanning and kinetics where up to 3 wavelengths can be measured simultaneously.

Key Features

- Scanning diode array technology
- Colour Touchscreen navigation
- Small footprint and lightweight
- Fast scan speed
- French language option
- Multiple USB ports for data storage and printer connectivity
- Extensive range of accessories available
- 2 year warranty

■ Diode Array Technology

Benefits of diode array technology include very fast scanning with the ability to scan the entire wavelength range of 335 to 800nm in less than 10 seconds, ideal for fast chemical reactions & denaturing materials.

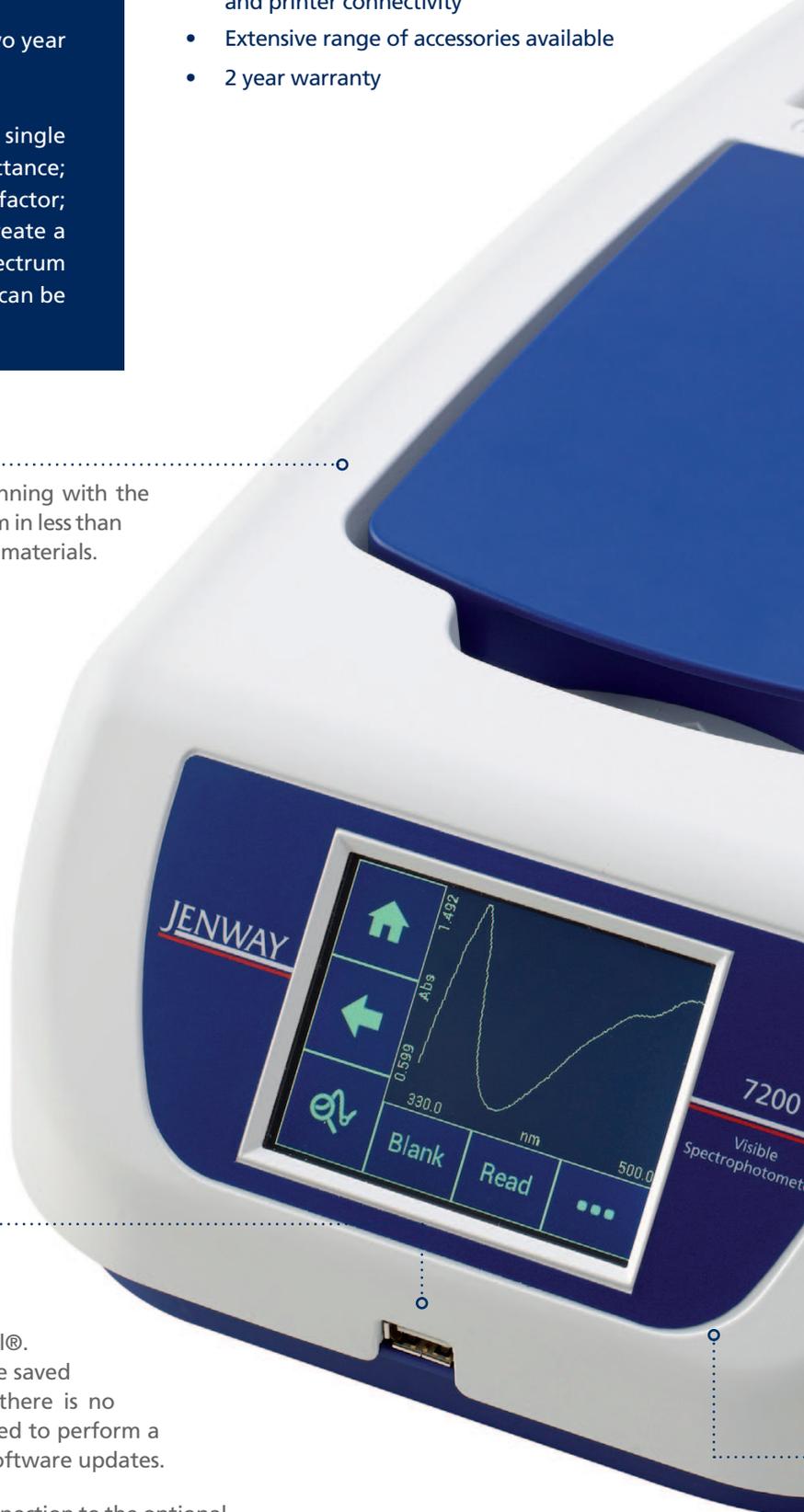
Traditional spectrophotometers use stepper motors to select the required wavelength. With diode array technology each wavelength is selected by electrical scanning, which results in excellent wavelength reproducibility. Diode array optics are very reliable and require very little maintenance.

Due to the reversed optic structure utilised by the 7200, it is not affected by ambient stray light so experiments can be performed with the lid open. This is ideal for samples in tall test tubes, or where fast access is required for kinetics experiments where the prompt introduction of the reaction component is required.

■ USB Connectivity

There are two USB ports for data storage and printer connectivity. The easy access USB port on the front of the instrument can be used to easily store results and transfer data as CSV files to Microsoft Excel®. As well as results storage, quantitation curves can also be saved to a USB memory stick for easy and quick access, so there is no need to recreate the calibration curve each time you need to perform a measurement. The front USB port can also be used for software updates.

The USB port on the rear of instrument can be used for connection to the optional external printer for instant results. Spectrum scans and kinetics runs are printed in a vertical orientation to maximise the amount of information displayed.



■ Sample Chamber

The large sample chamber allows easy access for loading and unloading samples. It has been designed with a tapered base so that any accidental spillages will drain away, making it easy to clean. The sample chamber will easily accommodate the optional long path length cuvette holder and the heated 10x10mm cuvette holder. The sample chamber lid can also be left open during measurements which is ideal for samples in tall test tubes.



■ Cuvette Rack

There is a handy built-in cuvette rack for convenient storage of samples and blanks, which keeps the bench space tidy and clutter free.

■ Design

Model 7200 uses a 1024 element diode array detector with a tungsten halogen lamp, which gives good intensity over the visible region of the spectrum with low noise and drift. This is all cleverly packaged resulting in a lightweight (2.8kg) instrument with a small footprint, ideal when bench space is at a premium.

■ Accessories

Model 7200 is supplied with a 10x10mm cuvette holder as standard but it has been designed to be compatible with the existing range of Jenway passive accessories from the 63, 73 and 67 series range. These include a test tube holder, adjustable path length (10 to 100mm) cuvette holder and a micro-cuvette holder. All of the accessories are easy to interchange using the ergonomic thumb screw.

For applications where the temperature of the sample needs to be controlled there is a heated cell accessory for thermostated measurements at 37°C. The heated cell holder accepts 10x10mm cuvettes and can be easily fitted and removed without the need for any tools.

83056-77



■ Display

The colour touchscreen user interface provides fast and easy set up and navigation of the instrument. The 4" display allows full spectrum scans, quantitation curves and kinetics runs to be viewed easily. The touchscreen capability enables users to zoom in and out and select spectral analysis points all by simply tapping the screen.

Ordering Information

Product Code	Description
ML-83056-01	7200 visible scanning spectrophotometer, fitted with 10x10mm cuvette holder, and supplied with a universal power supply and an instruction manual.



Accessory Ordering Information

Product Code	Description
ML-83056-77	Heated cell 10x10 cuvette holder
ML-83056-79	External printer (with UK power supply)
ML-83070-41	10 x 10mm single cuvette holder
ML-83056-80	10 to 100mm adjustable path length cuvette holder
ML-83056-82	Micro-cuvette holder with reduced aperture
ML-83070-43	Test tube holder (accepts 10mm square cuvettes, 16 and 24mm diameter test tubes)



Technical Specification

Wavelength

Range	335 to 800nm
Accuracy	± 2nm
Repeatability	± 2nm
Spectral bandwidth	7nm

Photometrics

Absorbance	-0.300 to 2.500A
Accuracy	+/- 0.01A at 1.0A and 546nm
Stability (A)	+/- 0.005A/h at 0.04A and 546nm
Noise	+/- 0.002A at 0.04A and +/- 0.02A at 2.0A and 546nm
Stray Light at 340nm, %T	<1%T according to ANSI/ASTM E387-72

Other

Beam height	15mm
Light source	Tungsten Halogen lamp
Results memory	Limited by attached mass storage device
Outputs	USB x 2
Supply voltage/frequency	100 – 240VAC at 50 to 60Hz
Power	12V DC, 3.8A
Size (w x d x h)	212 x 422 x 120mm
Weight	2.8kg



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