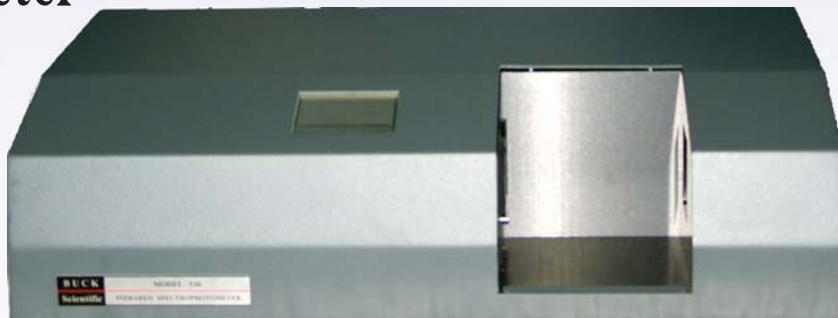


# Buck Scientific

## M530 Infrared Spectrophotometer

The new model 530 is a continuation of our wildly popular M500 infrared spectrophotometer. We have updated the electronics to bring the customer faster scan times, quicker response to software commands, USB output and a touchscreen. Also available is a new version of Buck-Scan software which has been developed to save our customers money on third party software.



## Features

- New touchscreen accesses all instrument stand alone functions.
- New display allows you to view spectra and to run survey scans without a companion computer.
- Display also reports measurement values as ratios in either percent transmission or absorbance scales.
- USB & RS232 output for computer control & data acquisition.
- Simple to use with minimal operator training.
- The new design uses stronger stepping motors, providing faster completion of GO TO commands.
- Free installation and operation DVD & free technical support.
- A wide variety of sampling accessories for solid, liquid and gas phase analyses.



**B U C K**  
**Scientific**

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# Specifications

## Wavelength Range:

4000 - 600cm<sup>-1</sup>

## Optics:

- A 4-position long pass filter
- An F-5 aperture ratio
- A 0.5m monochromator
- Diffraction grating: 75L/mm, blazed at 4 microns
- Pre-sample chopper: chops at 23.6 cycles per second.
- Left hand focus

## Slit Program:

Continuously variable

## Scan Speeds:

3, 6, 12, and 24 minute over the full wavelength range

## Data Presentation:

### Instrument:

- Build-in touch screen for wavenumber display and %T or absorbance readings.
- 4,250 data points per 3 minute scan
- 8,500 data points per 6 minute scan
- 17,000 data points per 12 minute scan
- 34,000 data points per 24 minute scan

### Computer:

- Full graphical and text display via software.

## Sample Compartment:

150mm square

## Outputs:

USB 2.0  
RS-232 and Recorder Outputs

## Resolution:

Nominally

4000cm<sup>-1</sup> - 2000cm<sup>-1</sup> ≤3cm<sup>-1</sup>  
2000cm<sup>-1</sup> - 600cm<sup>-1</sup> ≤2cm<sup>-1</sup>

## Detector:

- 1 x 2mm DLTGS (Deuteriated L-Alanine Doped Triglycine Sulfate)
- Sensitivity: 1V / milliwatt

## Source:

- Nichrome wire-wound ceramic core
- Power Consumption: 36W @ 1250K

## Dimensions:

26.25" W x 15.25" D x 7.25" H

## Weight:

38lbs.

## Power:

115 / 230VAC, 50 /60Hz, 150 watts

Buck Scientific has designed, manufactured, supported, and marketed a wide range of analytical instruments since its inception in 1970. Our products are renowned for their performance, compact size, ease of operation and user-friendly software. Buck's innovative design established the world's most durable IR system available. Buck is committed to the success of its customers, delivering unsurpassed customer service and technical support. We offer extensive services, including installations, customer training, and product seminars. Call us, or visit our web site to learn more about how Buck Scientific can offer a total solution to your analytical needs.

Infrared • Atomic Absorption • Gas Chromatographs • UV/VIS  
HPLC • Environmental Analyzers • Spectroscopy Supplies  
Microwave digestion systems • Microscope incubation chambers

**Buck Scientific Instruments are MADE IN THE U.S.A.**