

PRE-INSTALLATION REQUIREMENTS:

M-500 Scanning Infra-Red Spectrophotometer

ENVIRONMENT:

The instrument will occupy approximately 3' X 5' lab bench area and requires 110V-60Hz, 15 Amp power source within six feet of IR. Recommended temperature & humidity are from 60°F to 80°F & 30%RH to 50%RH as thermal instabilities, drift and noise may occur outside this range.

CHEMICALS:

IR Grade Potassium Bromide [for preparing sample PELLETS]

Solvents [for preparing CAST FILMS & sample SOLUTIONS] Alcohol, Acetone, Methylene Chloride, Hexane, Freon, Methanol

Nujol (mineral oil) & Fluorolube [for preparing MULLS]

GLASSWARE / LABWARE:

Sample Preparation Accessories:

ATR / Reflectance Attachments: PLC-11M, Specular or Diffuse Reflectance

Transmission Sampling Kit: NaCl or KBr Starter Kit includes - Salt plates, Gas Cell, Beta-Press for KBr, Mortar & Pestle, Film Holder

P-C Requirements for GRAMS/IR and EZ-Scan IR Software:

GRAMS Software requires a PC with Windows 2000, ME or XP

EZ-SCAN Software require a PC with Windows 95/98, ME or XP

Pentium Compatible Computer with VGA/SVGA monitor, 4M Hard Drive space, 64M RAM memory (min), and 3.5" Floppy Drive, free 9-pin Serial Comm-port for GC Interface cable, Mouse (serial or bus), Printer (dot-matrix / laser / inkjet) set up in Windows.

***** NOTE:** *Due to the wide variety of many Notebook / Laptop PC setups; Buck Scientific cannot be responsible for any software incompatibility issues and problems should be relayed through the PC manufacturer technical support.*

OPERATIONAL SUGGESTIONS:

Turn system ON approximately 1 hour before running any samples to allow the system to warm up and stabilize.

Do NOT place M-500 system itself in fume hood or near any acids, since this will damage internal optical and electronic components.

Run the background REFERENCE scan several times throughout the day, or just before running the sample, to correct for varying levels of Water Vapor and Carbon Dioxide which may show up in the spectrum.

Standard sample preparations may require additional solvents, standards and glassware not offered by our company – it is not the responsibility of Buck Scientific, Inc. to provide these items.