

New MZ5 Spectrometer Delivers Rapid MIR Analysis



SELF-CONTAINED

Includes sample interface, light sources and detector

ECONOMICAL

Alternative to traditional FTIR spectroscopy

RAPID TESTING

Excellent choice for chemical discrimination, food and flavorings analysis, environmental testing and scientific research

PLUG-AND-PLAY

Ready to go out of the box, does not require any external equipment such as light sources or fibers, and comes with software dedicated to measuring absorbance and transmittance of liquids

Great for Use across a Variety of Applications



FOOD TESTING



FUEL ANALYSIS



SCIENTIFIC RESEARCH



ESSENTIAL OILS



PERFORMANCE

- Spectral range:** 1818–909 cm^{-1} (5.5–11 μm)
- Signal to noise:** >300:1 or better (60 s measurement)
- Spectral bandwidth (FWHM):** 75 cm^{-1}
- Measurement time (typical):** ~30 seconds (N=200)
- Operating environment:** 0–45° C non-condensing
- Storage environment:** 0–60 °C non-condensing

PHYSICAL & MECHANICAL

- Weight:** ~812 g
- Dimensions:** 165 mm x 165 mm x 66 mm
- Housing and ATR frame material:** Aluminum
- ATR surface area:** 17 mm x 27 mm
- Crystal material:** ZnSe (zinc selenide)
- Crystal cover:** Protects sample area

DETECTOR & OPTOELECTRONIC

- Number of sample reflections:** 9
- Illumination source:** Electrically modulated MEMS emitters
- Source lifetime:** >5,000 hrs. of continuous measurement
- Dispersing element:** Linear variable filter
- Detector:** 128-pixel uncooled pyroelectric array
- Analog to digital converter:** 16-bit