



FLAME-CHEM Spectrophotometers



Compact Systems for Teaching Labs and More

FLAME-CHEM spectrophotometers are fully integrated UV-Visible and Visible-NIR systems for measuring absorbance and transmission of liquid samples in cuvettes. FLAME-CHEM is a great option for teaching labs and research facilities where users seek the performance and flexibility advantages of Flame series spectrometers in a compact, small footprint instrument.

Each FLAME-CHEM system comprises a preconfigured Flame spectrometer, a direct-attach light source and a cuvette holder for 1 cm pathlength cuvettes – all in a single package. UV-Vis (200-850 nm) and Vis-NIR (350-1000 nm) models are available.



At a Glance

Spectral range: 200-850 nm (UV-Vis);

350-1000 nm (Vis-NIR)

Entrance slit: 25 μ m

Optical resolution: 1.5 nm (FWHM)

SNR: 250:1

Dynamic range: 1300:1 (single acquisition)

Integration time: 1 ms-65 seconds

Light source: Deuterium-tungsten halogen (UV-Vis); Tungsten halogen w/violet LED (Vis-NIR)

Cuvette holder: Accepts 1 cm pathlength cuvettes

Making Science Fun and Flexible

FLAME-CHEM spectrophotometers are simple to use and surprisingly adaptable, helping to bring science to life in teaching labs everywhere. For example, the light source-cuvette holder assembly can be removed, which allows users to attach an optical fiber to measure emission. Also, the spectrometer's entrance slit can be switched out, depending on one's optical resolution needs. And both quartz and plastic disposable cuvettes are available.

In addition to educator-friendly spectrometers and accessories, we offer free, downloadable curricula and a grant funding program targeted to science teaching labs. To learn more, consult an Application Engineer today.

