

Description

TSA's MCA-465 provides a full featured, multi-channel analyzer in a portable, battery powered package. The 256 channel MCA-465 can be supplied with an internal NaI(Tl) detector, or used with a variety of external probes. Peak strip, background subtract, and search/find features are included.

OPERATION: User interface is provided via eight membrane switches on the front panel of the instrument. These switches provide operator access to all functions of the MCA-465 through a series of menus. The front panel set up can be disabled by an internal dip switch.

Four regions of interest may be programmed using the front panel switches. Up to fourteen spectra may be stored in nonvolatile memory and recalled for viewing or downloaded to a PC via RS-232 interface. These spectra are labeled as either background or data by the operator and are date and time stamped from the internal clock/calendar. The large area, backlit LCD presents adequate detail to analyze the spectral data, and facilitates setting up the instrument in the field.

The amplifier gain may be "fine tuned" using the front panel switches and an external radioactive source. The operator can adjust the gain to ensure the energy peak is in the proper channel. The PC communications package allows the instrument to be set up from a PC using the RS-232 port. Spectra may also be downloaded and converted for use with third party programs.



MCA-465

Portable 256 channel MCA

Specifications

Model MCA-465 SPECIFICATIONS

- DETECTORS: One, optional internal: 1" diameter x 2" (2.5 x 5cm) NaI(Tl); can be used with a variety of external detectors.
External probe adapters are available for most common configurations.
- DISPLAY: LCD, 2.5" h x 4.8" w (6 x 12cm) 128 x 256 pixel, with backlight
- COMMUNICATIONS: RS-232 communications capability
- DATA STORAGE: 14 spectra can be stored in internal battery backed RAM;
14 CPM mode verification measurements may be stored.
- POWER REQUIREMENTS: Internal sealed lead acid batteries will provide a minimum of 12 hours of operation.
A universal input power supply/battery charger is included with this option.
- DIMENSIONS: 6.2" h x 9.4" w x 4.9" d (16 x 24 x 12cm)
- WEIGHT: 7.5 lb (3.4kg) including batteries
- ENVIRONMENTAL: 32° to 100°F (0° to 38°C)
- OPTIONAL COMPONENTS: Detectors, internal and external; external probe adapters.

Applications

The MCA-465 was designed to be a multi-use field grade gamma spectrometer. Its has been utilized for numerous purposes and is especially suited for security applications.

The CPM mode was designed to assist in performing inventories of nuclear materials. Confirmatory measurements are automated to verify the presence of SNM.