

MMCA-2010 Mobile Digital Multi Channel Analyzer

Advanced, mobile, full featured Multi Channel Analyzer platform, based on a personal computer

The MMCA-2010 is an advanced, mobile, full featured Multi Channel Analyzer platform, based on a personal computer . It is an 8K channels integrated Multi Channel Analyzer uses advanced Digital Signal Processing (DSP) techniques. The MMCA-2010 is a complete spectroscopy workstation capable of the highest quality acquisition and analysis.

The instrument has been designed to operate with a wide range of spectroscopy detectors such as: HPGe, Scintillator with PMT or Photodiode, Cd(Zn)Te and Si(Li).



Features

The high voltage power supplies are set and controlled via the software. There are two High Voltage Power Supply Units with selectable polarity. The DSP card operates using proprietary software. The PC can be connected to the Internet/Intranet via RJ-45 Jack as a TCP/IP socket.

- Mobile.
- Light-weight
- 8K channels
- DSP based
- Variety of spectroscopy detectors
- Flexible 110-220V AC input.
- Wide range of high voltage from -5000V to +5000V, through SHV connectors.
- DC supply for Pre-Amp $\pm 12\text{VDC}$ $\pm 24\text{VDC}$ for HPGe Detectors.
- Supports Positive and Negative input Signal.
- TCP/IP connectivity.
- Numerous Regions of Interest.
- Algorithm for Background subtraction
- PHA and MCS Operation



Technical Data

Input Voltage	110V-220V AC
Output Voltage	±12V, ±24V for Pre-Amp.
High Voltage	± 5000V @ 0.5mA Temperature Coefficient – 50ppm/0C Stability: ±0.005%/hour, ±0.02%/8hours Protection: Short circuit and arc protected
	± 2000V @ 0.5mA : Temperature Coefficient – 50ppm/0C max 20ppm/0C typical Stability: 15ppm/15min, 50ppm/8hours Protection: Short circuit and arc protected
Weight	9Kg.
Casing	Gray Pelican P-1450
Dimensions	Width: 330 mm, Length: 406mm, Height: 155mm
Temperature Range:	Operation: 0°C to +50°C Storage: -20°C to +60°C
Humidity	10%-50% non condensing

DSP Card – Amptek DP-4
TCP/IP connectivity
Mobile PC 12.1" LCD color monitor

Ordering Information: Part # BAK-3160

ROTEM INDUSTRIES reserves the right to change specifications without advance notice

ROTEM INDUSTRIES LTD.

Radiation Detection Dept.

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