Via XXV Aprile 9/13 20023 Cerro Maggiore-MI Tel. 0331 420303

SpectraGAMMA III

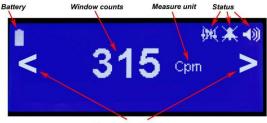
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Portable Multichannel Analyzer SpectraGAMMA III

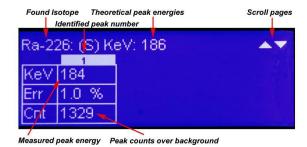
- DATA SHEET -

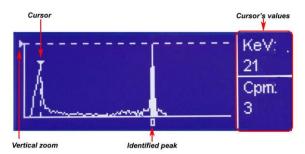


- 1024 channel Multi Channel Analyzer
- 192 x 64 pixel graphic display backlit
- 16-key functional keyboard
- DB9 connector for detector signal and low voltage supply
- MHV high voltage connector for detection probe
- USB connector for PC interface and battery charge
- Relay controlled remote alarm output
- Audio headphones output jack
- 1 RS232/RS485 serial port
- 1 USB port
- Detector: NaI(TI) 1.25in x 1.25in PMT (other solid state probes available upon request)
- Charger: by USB connector, via PC USB port or by electrical network adaptor (included)
- Manuals: English user guide included.



Counts over the window





Introduction

SpectraGAMMA III is a portable 1024-channel multichannel analyzer unit. It can be used either in standalone mode or connected to a notebook PC. SpectraGAMMA III is an extremely flexible and powerful tool, suitable for different kind of use, ranging from on site environmental radioactivity to laboratory spectroscopy and individual or group radiation protection.

SpectraGAMMA III can mount either NaI(Tl) or solid state probes of different sizes, in order to give to users a most appropriate choice, according to their needs.

The internal memory can to store thousands of measures and tenths of acquired spectra.

The Li-Ion batteries, with virtually no self-discharge, allow the instrument to be always ready when needed, even after a long time of not working.

Full graphic display and stand-alone spectrum analysis with isotope identification.

Info are grouped by type, for an easier understanding.

The possibility of managing more than one detector make it a valid instrument both for laboratory and onfield purposes.

l'acn S.r.I.

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General Description

SpectraGAMMA II is a radiation spectrum analyzer able to manage up to 7 different kind of phototube detectors altogether, including the possibility to generate an internal HV between 300 V and 1000 V.

The analog input signal is sent to a front-end Stretcher, a mini-board designed to sample and hold the PMT signal and to generate a trigger signal towards the mother-board.

A 10 bit ADC samples the input signal with a maximum rate of about 50 KHz which is then stored after application of efficiency equalization (user configured, detector dependent).

The device is powered by internal Li-Ion batteries (rechargeable by USB supply connector), allowing several hours of continuous measurements.



The internal RAM can store up to 20 energy spectra, which can be downloaded to a PC by a RS232/RS485 or USB connection.

Two different alarm levels can be set for a local acoustic alarm (internal speaker or headphones) and for a remote alarm by a relay activation.

Energy windows can be set to filter a specific radiation type, for isotope searching.

Technical Specifications(*)

DETECTOR: Nal (TI) 1.25" x 1.25" PMT (other solid state probes available upon request)

CHANNEL: 1024

ENERGY RANGE: from 20 KeV to 3 MeV

DISPLAY: 192 x 64 pixel graphic display backlit

ISOTOPE SELECTION: 99mTc 99Mo 111In 131I 123I 18F 201Tl 137Cs 133Ba 57Co

Until 32 user defined isotopes

FINISH: powder coat

AUDIO GENERATION: for warning and alarm to internal speaker or external headphones

REMOTE ALARM: n. 1 relay activation

INTERNAL BATTERY: Li-Ion

CHARGER: by USB connector, via PC USB port or by electrical network adaptor

MANUAL: English/Italian user guide PORT: n. 1 RS232/RS485

n. 1 USB

OPTIONAL

- Software: windows based MCA acquisition and analysis programs.
- Notebook PC.
- Other solid state probes.

^{*} Specifications may be subject to change without notice