



Multi Channel Analyzer BOSA

Complete set

- BOSA MCA device with software
- Color LCD display with touchscreen
- HV power supply unit
- Preamplifier power supply unit (+/- 12 V; +/- 24 V).
- MCA state display indicator
- Connectors: input; protection control output analogue and digital.
- Available interface to connect to computer: USB, LAN, RS-232. Connector for preamplifier power supply unit. Two HV connectors for the detector HV power supply. GATE signal connector
- AC/DC adaptor
- BOSA MCA has control for all operation modes by the program installed in remote computer

Features

- BOSA MCA acquires and displays spectra with overlapping by energy range up to 1000 times
- No resolution deterioration at operation in the beginning of spectrum energy range
- Stable operation with preamplifiers of TPR type with output voltage swing up to +/- 10 V and reset duration up to 250 us
- Automatic P/Z adjustment
- Improved dead time correction
- Spectrum stabilization
- Setting and control of all parameters using colour LCD display with touch screen
- Complete remote control of Boson MCA via software on PC.
- Dead time correction
- Base Line Restorer (BLR)
- Built-in oscilloscope

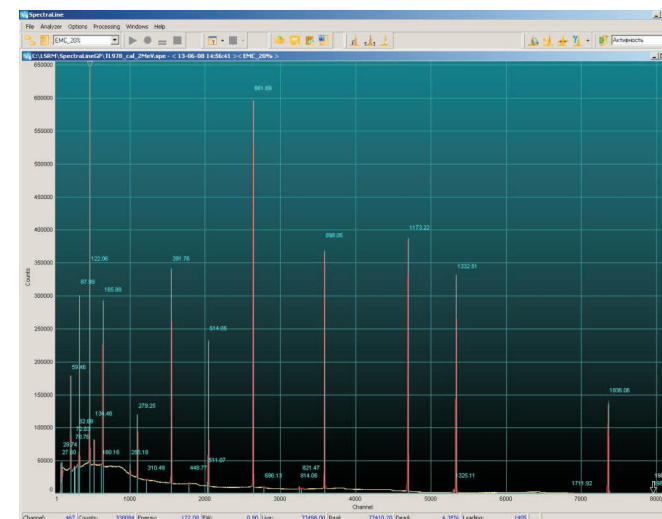
Baltic Scientific Instruments
Ganibu Dambis 26
Riga, LV - 1005
Latvia

Phone: (+371) 67383947
Fax: (+371) 67382620
Email: sales@bsi.lv
www.bsi.lv

Specification

Parameter	Value
Shaping time constant	4 shaping time constant 0,5...24 us
Coarse gain	5,10,20,40,80,160,320,640
Fine gain	2
Input signal polarity	+/-
TRP preamplifier	Yes
Integral nonlinearity	+/- 0,025%
Differential nonlinearity	<1%
Gain temperature coefficient	<50 ppm/oC
MCA, chn	16k
Input count rate	200000cps
Power preamplifier	+/- 12V 60mA +/- 24V 40mA
HV	+/-5000 V or +/-2000 V / 0.5 mA
Power supply	+9... 18 V
Consumed power	12 W
Indication	TFT color touchscreen
Communication interface	USB; Ethernet; RS-232

Software package



Spectra processing includes calibration, peaks parameters determination, nuclides identification, activities calculation and using the true-coincident factors for the gamma-emission intensity correction. Non-parametric model for pattern of the full energy peak provides a correct model for a line in any energy range. Adjustment of the MCA parameters.