



## Multi Channel Analyzer BOSTON

### Complete set

- Boston MCA 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 detector HV power supply. GATE signal connector. Outer power supply connector.
- AC/DC adaptor
- Boston MCA has control for all operation modes by the program installed in remote computer

### Features

- Boston 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
- Automated 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 Boston MCA via software from PC
- Dead time correction
- Base Line Restorer (BLR)
- Operation with preamplifier TPR
- Built-in oscilloscope

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## Specification

Parameter	Value
Shaping time constant	4 shaping time constant 0,5...24 us (by request)
Coarse gain	5,10,20,40,80,160,320,640 (by request)
Fine gain	1...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	up to 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 3.2"
Communication interface	USB; Ethernet; RS-232 or I/O control by request

### Software package

