

7.0 TECHNICAL SPECIFICATIONS

7.1 TX5000 BASE UNIT - TECHNICAL SPECIFICATIONS

- ❖ CODE TRANSMISSION SYSTEM: bi-directional RADIO link
- ❖ RECEIVER: single-conversion super heterodyne, quartz-controlled, FM
- ❖ RECEIVING SENSITIVITY: 0.15 μ V/m at 20db S/N
- ❖ RECEIVING FREQUENCY: 40.665MHz
- ❖ TRANSMITTER: 4-stage, FM, quartz-controlled.
- ❖ TRANSMISSION FREQUENCY: 40.685MHz \pm 12kHz
- ❖ TRANSMISSION POWER: in conformity with FCC Cfr. 47 part.15 sub B
- ❖ SAFETY CODING: 36-bit binary sequence with fire code protection, user's code, parity.
- ❖ DISPLAY (for parameters and sequences displaying): GRAPHIC LCD 320x240 pixels (1/4VGA) with LED backlight.
- ❖ R.F. CARRIER INDICATION: LED indicator on the front-panel
- ❖ RECEIVED SIGNAL INDICATOR: direct reading in dB μ V
- ❖ SYSTEM AUTONOMY WITH FULLY-CHARGED BATTERIES: more than 10 hours
- ❖ SAFETY KEY SWITCH: OFF/CHARGE - SAFE/TEST - FIRE
- ❖ KEYBOARD: membrane type, splash proof, 35 keys
- ❖ MICROPROCESSOR: 16-bit – 20MHz - H8S family
- ❖ SHOW PROGRAM AND CODES STORAGE: E²PROM
- ❖ MAIN PROGRAM STORAGE: FLASH EPROM
- ❖ MAIN FIRE SEQUENCES: 1 to 24.000 sequential, random or with auto-increment
- ❖ MAXIMUM NUMBER OF REMOTE UNITS IN A SINGLE SYSTEM: 255
- ❖ MAXIMUM NUMBER OF INDEPENDENT LINES: 6120
- ❖ STANDARD INTERFACES: RS-232, RS-485, SMPTE, MIDI and ANALOG I/O for the pyromusical synchronization with AUDIO tones

7.2 RX48 TWIN REMOTE UNITS TECHNICAL SPECIFICATIONS

- ❖ CODE TRANSMISSION SYSTEM: bi-directional RADIO link
- ❖ RECEIVER: single-conversion super heterodyne, quartz-controlled, FM
- ❖ RECEIVING SENSITIVITY: 0.15 μ V/m at 20db S/N
- ❖ RECEIVING FREQUENCY: 40.685MHz
- ❖ TRANSMITTER: 4-stage, FM, quartz-controlled.
- ❖ TRANSMISSION FREQUENCY: 40.665MHz \pm 12kHz
- ❖ TRANSMISSION POWER: in conformity with FCC Cfr. 47 part.15 sub B
- ❖ SAFETY CODING: 36-bit binary sequence with fire code protection, user's code, parity.
- ❖ R.F. CARRIER INDICATION: LED indicator on the front-panel
- ❖ RECEIVED SIGNAL INDICATOR: direct reading in dB μ V
- ❖ MEAN DECODING TIME FOR A VALID FIRE COMMMAND: 0,1s
- ❖ FIRE PULSE DURATION: 0.2s
- ❖ CODES AND SEQUENCES PROGRAMMING: by RADIO link from the Base Unit or with RS-232 serial port
- ❖ MAXIMUM NUMBER OF AVAILABLE SEQUENCES: 9999
- ❖ LINES AND SQUIB TEST: automatic measure of the total resistance, direct reading in ohm
- ❖ TEST CURRENT FOR SQUIBS: 1mA
- ❖ FIRING LINES: 48 independent (managed as TWO independent 24-line units). Quick-connecting terminals, metal-plated.
- ❖ LINE DRIVERS: solid-state with MOS-FET transistors.

7.3 BPK-48A BATTERY PACK TECHNICAL SPECIFICATIONS

- ❖ SYSTEM BATTERY: sealed accumulator, lead-acid type with solid gel electrolyte - 12V 5.7Ah
- ❖ FIRING LINES BATTERIES: 2 sealed accumulators lead-acid type with solid gel electrolyte - 12V 1.2Ah for a total firing voltage of 24V
- ❖ LINE CURRENT: 1A continuous, up to 8A peak
- ❖ CONTROL SYSTEM: with dedicated microprocessor
- ❖ CHARGE SYSTEM: from mains (110/240Va.c. 50-60Hz), internal power supply, dedicated microprocessor
- ❖ FUNCTIONS: automatic sequential test of all batteries, automatic charge with control, automatic shut-off.
- ❖ MEASUREMENTS: open-circuit voltage, voltage under load, variation percentage, maximum charging current, end-of-charge current.