

## MRA-3Q Short Instructions

### 1. Spectrum entry (erases old background, writes new signals)

- a) Using the MODE button set the "SCAN" mode
- b) Push the MENU (NEXT) button for several seconds
- c) Select + (UP) "Modify spectr."
- d) Select - (DOWN) "Spectrum Entry"
- e) Push MODE: "yes" to confirm

### 2. Background check (tuning & checking of background signals)

- a) Using the MODE button set the "Background check" mode
- b) By the UP or DOWN buttons check all background channels
- c) Tune the best signal reception by the SEARCH knob

### 3. Permanent protection - SCAN

- a) Using the MODE button set the "SCAN" mode
- b) Note the ID of the last spectrum background #XXXX

### 4. Pre-alarm, Alarm, Past-alarm (presence of new signals)

- **Pre-alarm:** short flash of the red alarm LED and a short beep, after the ID the level of achieved alarm is displayed in %
- **Alarm:** continuous light of red alarm LED, continuous tone, 100% and ALARM! alternate with duration of the alarm (HH:MM)
- **Past-alarm:** ALARM! message alternates with the time elapsed from the end of last alarm (-HH:MM)

### 5. New signal check (alarm reason check & bug detection)

- a) Using the MODE button set the "New signal" mode
- b) By the UP or DOWN buttons check all new signal channels
- c) Disconnect power supply and find the bug using DIST bargraph

### 6. Adding "false" alarm channel to background

- a) In the "New signal" mode push the MENU(NEXT) button at length + (button UP) offers "Edit" e.g. work with new signals
- b) + (button UP) "Add to BG", adds channel to background

### 7. Manual tuning and frequency measurement

- a) Push the MENU(NEXT) button shortly, the LCD shows "M.tuning"
- b) Tune the strongest signal using the SEARCH knob or UP/DOWN
- c) Push the MENU(NEXT) button shortly to measure the frequency
- d) The MODE buttons returns to the previous mode