# SPECTRAN V5
## QUICKGUIDE

AARONIA AG
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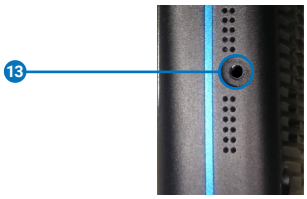
*Optional Docking Station

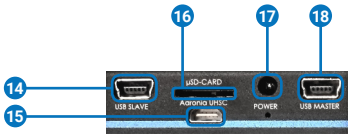

In order to use the docking station correctly, note that the device must be properly placed in the docking station. The „A" of SPECTRAN should only be half-visible, the "e" of Analyzer should be completely visible.


**IMPORTANT:** Always keep the fan clear of obstructions or you might cause the device to overheat, which can result in damage to the device.


Back




Side




Bottom

### 1 Powermeter
Sync In/Output or Powermeter (not implemented yet)

### 2 RF Input
50 Ohm RF input

### 3 Tracking Generator
Tracking generator output (not implemented yet)

### 4 Power-LED
The LED flashes green/red while the device is booting and blinks orange while the device is powered up.

### 5 On/Off Button
Turns the device on. The screen remains black for about 15 seconds, while the device is booting. It is ready for use after the „beep" sound.

### 6 Clr/Undo Button
Clear data and change settings.

### 7 Scroll Button
Scroll button, controls the cursor and activates functions.

### 8 Charge-LED
Red - battery is charging
Green - battery is fully charged

### 9 Custom Button
Configurable button (not implemented yet)

### 10 Menu Button
Open the main menu.

### 11 Fan cooler
Make sure that the fan is never obstructed, else the device might not be cooled sufficiently

### 12 Speaker R/L
Speakers for demodulation

### 13 2,5mm Audio Plug
For headphones, ear-buds or speakers.

### 14 USB Slave
Mini-USB port for printer, storage, GSM, WLAN connections.

### 15 Aaronia UHSC port
Ultra fast (4x3GSPS) Aaronia I/O connector.

### 16 µSD Slot
Supports Aaronia micro SDHC cards with more than 10MB/s (not implemented yet)

### 17 Power Connector
Only use the original Aaronia Power Adapter (5.5V, 6A/33W).

### 18 USB Master
Mini-USB port for the direct connection to a PC

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## MAIN MENU

To open the main menu you have to tap once anywhere on the screen OR press the ***Menu Button***.


*Main Menu*

1. Select the ***Center*** (middle frequency)
2. Select the ***Span*** (frequency range for REAL-TIME measurements)
3. Select the ***Bandwidth*** (level of detail and sensitivity in SOFT mode)
4. Select the ***Start*** frequency (SOFT mode)
5. Select the ***Stop*** frequency (SOFT mode)
6. Select the ***Sweep Time*** (the measurement period in SOFT mode)
7. Select the ***Reference Level*** (position adjustment on the dBm axis)
8. Adjust the internal ***Attenuator*** (helps avoiding RF input overloads)
9. Turn the internal ***Preamplifer*** on/off (amplifies by ~15dB)
10. Select the ***Display Mode*** (DTS or SOFT, see the next page)
11. Enter the ***Setup*** menu (details on a following page)
12. Return button

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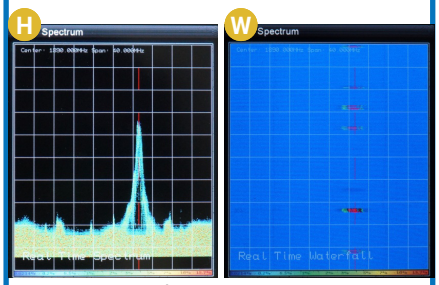
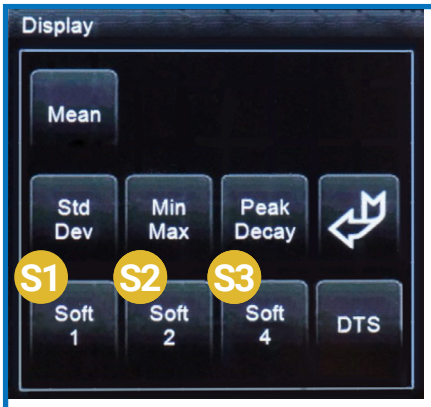
## 10 DISPLAY MODE


*DTS mode (REAL TIME)*

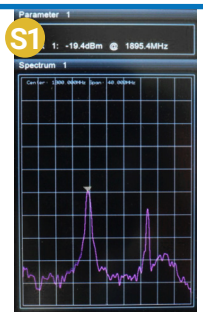


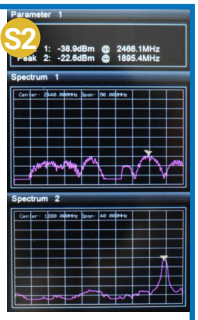

*Histogram and Waterfall view in DTS mode*

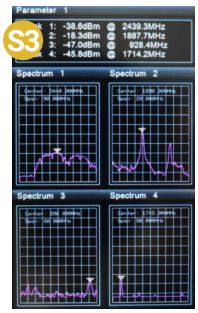
### REAL TIME MODE




*SOFT mode (SWEEP)*




*Multi-window measurements are possible in SOFT mode.*

### SWEEP MODE

S1 S2 S3

*Soft 1* shows one, *Soft 2* shows two and *Soft 4* shows four spectrum windows.

You can change the settings of a specific window by tapping it.

You can save the settings of your SOFT window or windows. Go to the ***Main Menu***, press ***Setup*** and press ***Save.*** You can save up to 10 individual SOFT windows.

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## 11 SETUP MENU

To open the setup menu you have to select the ***Setup*** button in the ***Main Menu***.


*Setup menu*

1. Define the ***Amplitude Range*** (dynamics)
2. Select the ***Resolution Bandwidth***
3. Select the ***Demodulator Bandwidth*** (for clearer demodulation)
4. ***Histogram Increase*** controls the histogram view color distribution
5. ***Histogram Decrease*** controls the histogram view color distribution
6. ***Load*** a saved set of specific settings (SOFT mode)
7. Set a ***Marker*** or cursor to measure specific signals (DTS mode)
8. ***Demodulate*** AM/FM/PM signals (DTS mode)
9. ***Save*** a set of specific settings (SOFT mode)
10. Define a ***Limit*** (red value if exceeded, SOFT mode)
11. ***JTFA*** options to optimize symbol processing

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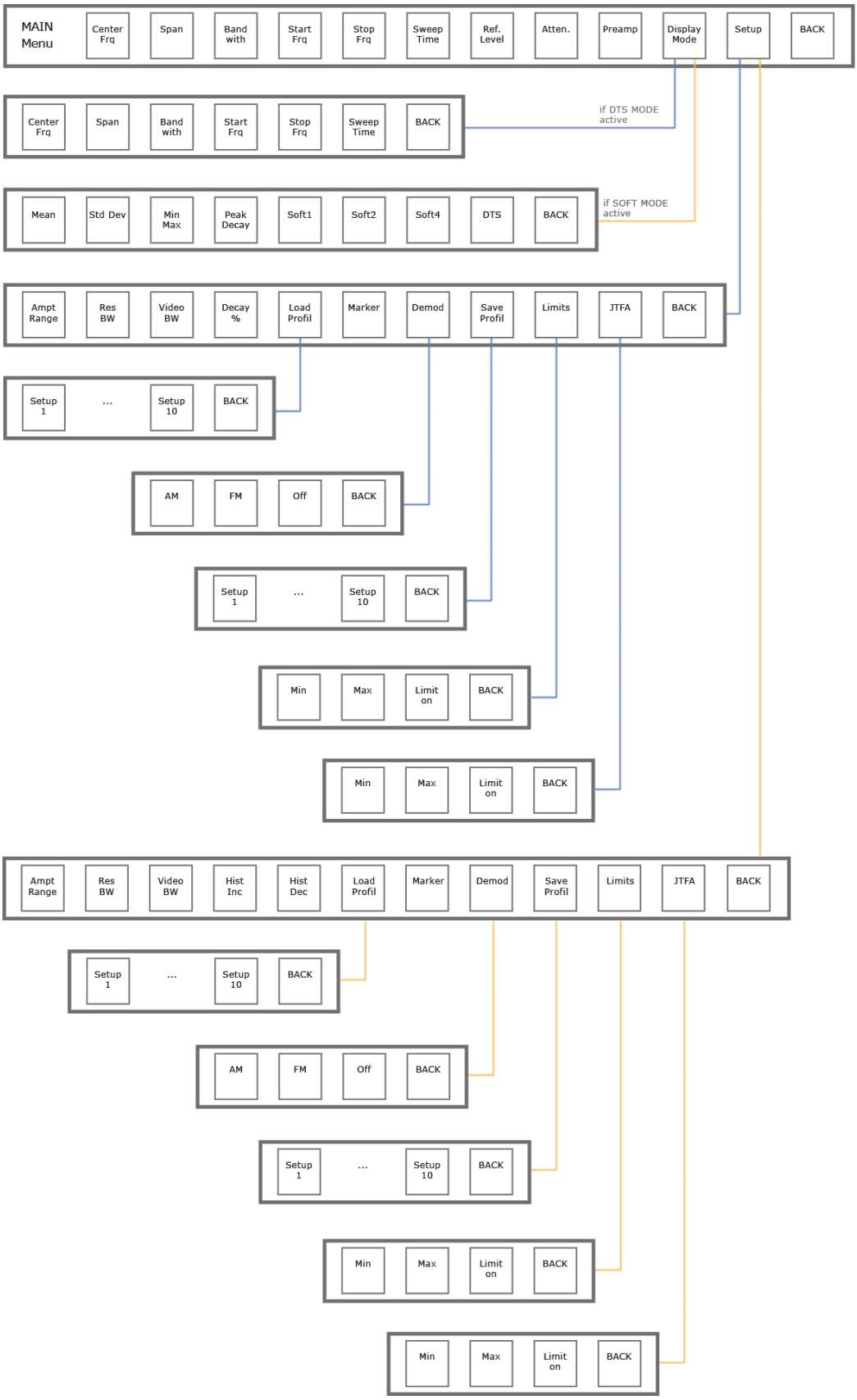
## MENU STRUCTURE

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## KNOWN PROBLEMS AND BUGS

| | |
|---|---|
| The *SPECTRAN V5* feels hot | The *SPECTRAN V5* operates at 37 - 38°C, the device might feel hotter due to the metal surface, but there is no risk of injury if you are operating it correctly.<br><br>Make sure that the fan on the back is not obstructed.<br><br>You can also use either the optional *Docking Station* or the optional *Rubber Cover* for the *SPECTRAN V5.* |
| Changing from *SOFT mode* (1-2-4) to *DTS mode* (Hist/WF) either crashes the device or takes a long time | A known software bug, which we are still investigating.<br><br>Our workaround is to reset (turn off and then on) the *SPECTRAN V5* when changing between *SOFT mode* and *DTS mode*, this is faster than waiting for the long loading time and risking a crash. |
| The device doesn't react to any inputs | Press and hold the *ON/OFF Button* for 20 seconds to reset the device and then start the device as usual. |