



Spectra

Release notes - version 1.2.2



Important!

Before starting the update, disconnect the antennas from the Base Station. This ensures a safe, trouble-free firmware update.

Please follow these steps when installing the firmware:

1. Physically disconnect the antennas from the Base Station.
2. Update the Base Station (expect several automatic reboots).
3. Wait until the **Base Station LED** remains **solid green**, indicating that the update has been completed.
4. Reconnect the antennas; they will update automatically.
5. Update your mobile devices.
6. Avoid power interruptions, and ensure that batteries are sufficiently charged.



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1. System overview & requirements

Supported products

- Base Station
- DAD UHF antenna
- DAD 1G4 antenna
- SEK UHF mobile device
- SEK 1G4 mobile device
- Spectera WebUI

System requirements

- Intel i5 Dual Core processor/M1 Mac/or similar
- 16 GB RAM
- Gigabit LAN interface
- Windows® 10 or higher
- Mac OS Big Soma or later
- IPv4 network

Supported web browsers for Spectera WebUI

- Google Chrome: 125 or later
- Microsoft Edge: 125 or later
- Mozilla Firefox: 128 or later
- Apple Safari: 17 or later
- JavaScript must be activated

Access instruction

In order to start the self-hosted WebUI for Spectera WebUI:

1. Enter the following URL into your browser: <https://deviceIP/specterawebui/>
2. When logging in for the first time, assign a password for the device and continue with **Submit**.

i Since the certificate is unknown to your browser, a security warning is displayed the first time you run the application. The security warning depends on the browser you are using.

3. Depending on your browser, click on **Advanced** or **Show Details** (Safari) and then on:
 - Microsoft Edge: Continue to localhost (unsafe)
 - Google Chrome: Proceed to localhost (unsafe)
 - Firefox: Accept the Risk and Continue



- Apple Safari: [...] visit this Website -> Visit Website
- or similar (other browsers)

Firmware update

The Spectera firmware update requires the Spectera WebUI or the Sennheiser LinkDesk software:

- sennheiser.com/base-station
- sennheiser.com/linkdesk



2. Current release

Latest information on the Spectera firmware and WebUI software, including detailed descriptions of features, bug fixes, and known issues.

Version 1.2.2



Important!

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Please follow these steps when installing the firmware:

- 1. Physically disconnect the antennas from the Base Station.**
2. Update the Base Station (expect several automatic reboots).
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New features

Base Station

- Audio link modes can be empty, while selecting the audio inputs and outputs (Audio IO) in the WebUI

SEK

- The status LED is flashing red when the battery state is below 10 %
- In-Ear volume level and battery state are displayed on the home screen

Spectera WebUI

- Support to select Audio IO without setting an Audio Link Mode first
- The battery icon for the SEK is flashing red when the battery state is below 10 %

Improvements

SEK

- Supports low impedance headphones



Spectera WebUI

- LQI level 1 is now correctly shown when the link output is muted

Implementation of Dante® Media Encryption

Dante Media Encryption protects the content of media flows across thousands of existing Dante devices using strong AES-256 encryption, safeguarding media from interception or unauthorized access.

To update the Dante modul of the Base Station, please refer to: <https://www.getdante.com/support/faq/how-to-update-your-dante-devices/>

Bug fix

SEK

- Serial number is shown to be "0000000000" if a connected SEK has a FW mismatch

Spectera WebUI

- Fixed incorrect network state when setting IP mode to "manual" and gateway to "0.0.0.0"

Known issues

Base Station

- Sometimes Base Station reboots are encountered, if HF channels are muted over the Base Station UI (i.e. from the front panel of the Base Station)

SEK

- MIC/Line input - noise may occur in the audio signal when instrument cables and microphones have insufficient shielding

Spectera WebUI

- Under certain circumstances, the identify function in the WebUI keeps flashing and does not automatically stop after 10 seconds.



3. Previous releases

Information on the previous versions of Spectera and the WebUI, including detailed information on included features, bug fixes, and known issues.

Version 1.1.0

New features

SEK

- Added Egypt country information to zone 14
- Added Mexico country information to zone 14
- Added audio improvement to mic/line path for better microphone and instrument compatibility

Spectera WebUI

- Added connection loss detection with automatic reconnect
- Detect version mismatch to Base Station and trigger automatic page reload
- Added failure log information and reset possibility

Improvements

Base Station

- Added e-label to zone 5 (South Africa)
- Added e-label to zone 14 (Mexico)
- Make notifications acknowledgeable and reappearing, rotation through active notifications
- Add additional data to system information export

SEK

- Microphone input is muted, when no microphone is plugged in
- Reduced display updates when charging in CHG 70N-C
- Measures the impedance with an inaudible test tone

Spectera WebUI

- Added Audio Link Mode tables as tooltips
- Better drop-down visibility in Firefox
- Factory reset hint added to password dialog
- Improved headphone plug state
- Increased contrast of checkboxes for better visibility
- Removed peak traces from small RF scan



- Renamed “Support Info” to “Diagnostic Report”
- Replaced “Audio Net” and “Audio Network” by dynamic name (e.g. “Dante®”)
- Show RF mute switch in yellow, if RF is muted and at least one antenna is binded to this RF channel
- Sorted Audio Link Modes within drop-down fields according to datasheet
- Stored selected color theme within local storage

Bug fix

Base Station

- Changed display dim time to 2 minutes and display off time to 20 minutes
- Fixed status LED lighting up yellow during standby mode on RF property change
- Dante not working after wakeup from standby

SEK

- Inverted mic input phase

Known issues

Base Station

- Sometimes Base Station reboots are encountered, if RF channels are muted over the Base Station UI (i.e. from the front panel of the Base Station)
- RF power is set to a minimum after factory reset
- Unable to set Audio Link Modes via LinkDesk after successful Base Station and mobile devices firmware update.

Workaround: Do not use the Spectera WebUI and LinkDesk in parallel during Base Station firmware update

SEK

- Simultaneous bidirectional use cases might impact the noise floor on the mic/line input of the bodypack
- No low battery warning on device
- MIC/Line input - noise may occur in the audio signal when instrument cables and microphones have insufficient shielding
- FCC ID is missing for Canada license on the SEK display
- One SEK sometimes shows LQI = 2 when switching to 536 MHz
- The LED colour is red while charging

Spectera WebUI

- The Spectera WebUI freezed on Safari after macOS went into locked screen
- Overlap of RSSI min and dominant antenna



Version 1.0.2

Bug fix

- Added support for new SEK hardware revision

Known issues

SEK

- Simultaneous bidirectional use cases might impact the noise floor on the mic/line input of the bodypack
- No low battery warning on device
- MIC/Line input - noise may occur in the audio signal when instrument cables and microphones have insufficient shielding



Version 1.0.1

New features

Base Station

- Add “Dante” page to Base Station menu to check status and IP addresses
- Add “Headphone” page to Base Station menu for user to select and listen into audio link via “Headphones” socket
- Show icon bar on “Main” screen to display status of Base Stations physical connections

SEK

- Automatic headphone impedance measurement with supply and compressor setting upon plug detection
- The mic input gain is shown in the five LED metering

Spectera WebUI

- Frequency Scan: small scans are clickable as shortcut to large scan page
- New “Audio Interfaces” widget
- New “Audio IO” matrix view
- New “Base Station” widget
- New “RF Configuration” widget (new small RF scans, more antenna information)
- New antenna properties (interference and temperature)
- Walk test mode added
- Matomo data collection added
- Default audio output selection added

Improvements

Base Station

- Previous frequency-scan result is cleared when updating the configuration
- Don’t allow setting all audio output interfaces to off
- Add further license regions

SEK

- Abort update, when link is lost

Spectera WebUI

- Audio Link Mode name “Deactive” changed to “None”
- Audio Metering: reset depending on device state
- Base Station update and Entitlement “Failed” messages moved to tooltip
- Better interference info due to new “residual power”



- Change mobile devices RF channel selection to checkbox
- Enable RF channel selection for mobile devices only if possible
- Frequency Scan: better info and symbols, timestamp added, CSV export enhanced
- Icons for info/check/warn/error were updated
- Info/Ident/Brightness aligned for mobile devices and antenna table
- More “Volume Min” values selectable
- New test tone steps within dropdown menu
- RF utilization changed from floor to ceiling and tooltip added
- RF frequency edit field grayed out during pending transfer
- Several improvements for Safari browser (Mac)

Bug fix

- Several bug fixes and optimizations

Known issues

SEK

- Simultaneous bidirectional use cases might impact the noise floor on the mic/line input of the bodypack
- No low battery warning on device
- MIC/Line input - noise may occur in the audio signal when instrument cables and microphones have insufficient shielding



Sennheiser electronic SE & Co. KG | Am Labor 1 | 30900 Wedemark | Germany