Spectera

Firmware version 1.1.0 - release date 2025-08-07

For conformity, consistency and compatibility reasons, we strongly recommend upgrading the system to the new release.

Supported products

- Base Station
- SEK 1G4 | SEK UHF (mobil device)
- DAD 1G4 | DAD UHF (antenna)
- Spectera WebUI

Recommendations (Spectera WebUI)

Host PC client

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

Client browser

- Google Chrome (latest version)
- Mozilla Firefox (latest version)
- Microsoft Edge (latest version)
- Apple Safari (latest version)
- 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)

New features

Hardware

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

Firmware

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

Hardware

Base Station

- Added e-label to zone 5 (South Africa)
- Added e-lable 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

Firmware

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

Hardware

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

Hardware

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 parall 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 occure 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

Firmware

Spectera WebUI

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

Firmware update

- The Spectera firmware update requires the Spectera WebUI or the Sennheiser LinkDesk software:
  sennheiser.com/base-station
  sennheiser.com/linkdesk

Previous releases

Firmware version 1.0.2 - release date 2025-05-28

Bug fix

- Added support for new SEK hardware revision

Firmware version 1.0.1 - release date 2025-04-25

New features

Hardware

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

Firmware

- 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

Hardware

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

Firmware

- 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 fixes

- Several bug fixes and optimizations

Firmware version 0.9.6 (beta) - release date 2024-12-19

Features
- Improved reconnect behavior
- Improved behavior in low link-quality scenarios

Firmware version 0.9.5 (beta) - release date 2024-11-27

- Initial firmware release v0.9.5 (beta) for Spectera.