



# SPECTERA

## SEK (UHF) | SEK (1G4)



SPECTERA SEK (UHF)



SPECTERA SEK (1G4)

Each bidirectional Spectera SEK bodypack manages both an IEM/IFB and a mic/line stream simultaneously. Plus, they allow for full remote control and monitoring, via identical RF connection, of IEM volume, audio level and settings, RF health, battery status, and more via LinkDesk software. Variants include UHF (470 – 608 MHz and 630 – 698 MHz) or 1G4 (1350 – 1400 MHz and 1435 – 1525 MHz).

### FEATURES

- Bidirectional bodypack manages both digital IEM/IFB and mic/line signals simultaneously
- Bidirectional data and audio control in identical RF carrier of all mobile devices
- Available variants: UHF (470 – 608 MHz and 630 – 698 MHz) or 1G4 (1350 – 1400 MHz and 1435 – 1525 MHz)
- Full remote control and monitoring of SEK bodypack: IEM volume, mic/line gain, RF health, battery status, and more
- Impedance-matching high-power headphone amplifier
- Continuous interference management
- Endless encoder and push button
- 3-pin mic/line input and IEM/IFB 3.5 mm headphone connector
- LED meter, status LED and persistent display for “always on” information — name visible on screen even when batteries are removed
- Up to 7 hours of operating time depending on the selected audio link mode and settings with rechargeable lithium-ion battery BA 70 (sold separately)
- Encrypted RF connection between the Base Station and bodypack
- Secure transmission of confidential content using AES 256 encryption
- Versatile charging options also available: L 70 USB, LM 6070 Module for L 6000 full rack charging station and charging contacts for in-device charging with CHG 70N-C
- Compatible with a wide range of Sennheiser lavalier and headset microphones with 3-pin locking connector and in-ear monitors with 3.5 mm connector
- Rugged metal housing

### DELIVERY INCLUDES

- SPECTERA SEK (UHF) or SPECTERA SEK (1G4)
- Antenna
- Beltclip
- Quick guide
- Safety guide
- Manufacturer declaration sheet

### PRODUCT VARIANTS

**SPECTERA SEK (UHF)**

470 – 608 MHz and 630 – 698 MHz

Art. no. 509164

**SPECTERA SEK (1G4)**

1350 – 1400 MHz and 1435 – 1525 MHz

Art. no. 509163



# SPECTERA

## SEK (UHF) | SEK (1G4)

### ACCESSORIES

|                                     |                                                                              |                 |
|-------------------------------------|------------------------------------------------------------------------------|-----------------|
| <b>SPECTERA SEK Antenna (UHF)</b>   | Exchangeable flexible antenna for the frequency ranges UHF (470 - 698 MHz)   | Art. no. 700066 |
| <b>SPECTERA SEK Antenna (1G4)</b>   | Exchangeable flexible antenna for the frequency ranges 1G4 (1350 - 1525 MHz) | Art. no. 700067 |
| <b>3pin protective cap MIC/LINE</b> | Exchangeable protective cap for Mic/Line 3-pin connector                     | Art. no. 700072 |
| <b>SPECTERA SEK Belt Clip</b>       | Exchangeable vertical clip                                                   | Art. no. 700071 |
| <b>BA 70</b>                        | Rechargeable battery pack                                                    | Art. no. 508860 |
| <b>L 70 USB</b>                     | USB charger with dual slots for BA 70                                        | Art. no. 508861 |
| <b>CHG 70N-C</b>                    | Network enabled charger                                                      | Art. no. 700332 |
| <b>L 6000</b>                       | Charging station with exchangeable charging modules (LM 6070)                | Art. no. 507300 |
| <b>LM 6070</b>                      | Charging module for two BA 70 battery packs                                  | Art. no. 509457 |
| <b>CI 1-4</b>                       | Instrument cable                                                             | Art. no. 503163 |
| <b>KA 9000 COM</b>                  | Command adapter                                                              | Art. no. 504735 |



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## SEK (UHF) | SEK (1G4)

### SPECIFICATIONS

#### System

|                          |                                                                                                                                 |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Transmission scheme      | Multicarrier, TDMA, TDD                                                                                                         |
| RF channel               | Bandwidth: 6 or 8 MHz countrywise limited<br>Mobiles devices: up to 128 per RF channel<br>Audio links: up to 128 per RF channel |
| Radio frequency range    | UHF: 470 - 608 MHz, 630 - 698 MHz<br>1G4: 1350 - 1400 MHz, 1435 - 1525 MHz<br>countrywise limited                               |
| Audio frequency response | 20 Hz to 20,000 Hz ( $\pm 1$ dB)                                                                                                |
| Encryption               | AES 256 CTR Mode exp. >10k years                                                                                                |

#### Audio link modes

| MIC/LINE          | Mono | Max links per RF carrier | Utilized % of RF carrier | Audio codec | Latency | Range    |
|-------------------|------|--------------------------|--------------------------|-------------|---------|----------|
| Raw Low Latency   | Mono | 8                        | 12.50 %                  | PCM         | 1.0 ms  | Reduced  |
| Raw               | Mono | 16                       | 6.25 %                   | PCM         | 1.6 ms  | Reduced  |
| Live Low Latency  | Mono | 8                        | 12.50 %                  | SeDAC       | 1.0 ms  | Extended |
| Live              | Mono | 16                       | 6.25 %                   | SeDAC       | 1.6 ms  | Extended |
| Live Link Density | Mono | 32                       | 3.13 %                   | SeDAC       | 2.7 ms  | Standard |
| Max Range         | Mono | 16                       | 6.25 %                   | OPUS        | 9.9 ms  | Maximum  |
| Max Link density  | Mono | 128*                     | 0.78 %                   | OPUS        | 15.2 ms | Reduced  |

| IEM/IFB                | Mono/<br>Stereo | Max links per RF carrier | Utilized % of RF carrier | Audio codec | Latency | Range    |
|------------------------|-----------------|--------------------------|--------------------------|-------------|---------|----------|
| Live                   | Mono            | 16                       | 6.25 %                   | SeDAC       | 1.6 ms  | Extended |
| Live Link Density      | Mono            | 32                       | 3.13 %                   | SeDAC       | 2.7 ms  | Standard |
| Max Range              | Mono            | 16                       | 6.25 %                   | OPUS        | 9.9 ms  | Maximum  |
| Max Link density       | Mono            | 128*                     | 0.78 %                   | OPUS        | 15.2 ms | Reduced  |
| Live Ultra Low Latency | Stereo          | 4 (8 ch)                 | 25 %                     | SeDAC       | 0.7 ms  | Extended |
| Live Low Latency       | Stereo          | 8 (16 ch)                | 12.50 %                  | SeDAC       | 1.1 ms  | Extended |
| Live                   | Stereo          | 16 (32 ch)               | 6.25 %                   | SeDAC       | 1.6 ms  | Standard |
| Live Link Density      | Stereo          | 32 (64 ch)**             | 3.13 %                   | SeDAC       | 2.7 ms  | Reduced  |

\* Base Stations have 32 audio outputs, for 128 links in a single RF channel, 4 Base Stations and firmware update with cascade port function are required (future release)

\*\* Base Stations have 32 audio inputs, for 32 stereo links (64 ch) in a single RF channel, 2 Base Stations and firmware update with cascade port function are required (future release)



# SPECTERA

## SEK (UHF) | SEK (1G4)

### SPECIFICATIONS

#### SPECTERA SEK (UHF) | SEK (1G4)

|                                            |                                                                                                                  |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| RF transmission power                      | up to 50 mW; countrywise limited                                                                                 |
| RF channels                                | 1                                                                                                                |
| Headphone output                           | 3.5 mm TRS jack<br>2 × 400 mW RMS (16 Ω, -40 dB THD, 1 kHz)                                                      |
| Microphone / Instrument /<br>Command input | 3-pin audio socket                                                                                               |
| Power supply                               | BA 70 rechargeable battery pack                                                                                  |
| Battery operating time                     | up to 7 h (unidirectional microphone use)<br>up to 6 h (unidirectional IEM use)<br>up to 5 h (bidirectional use) |
| Dimensions                                 | approx. 83.5 x 62 x 21 mm (3.39" x 2.44" x 0.83") (without antenna)                                              |
| Weight                                     | approx. 178 g (0.39 lbs) (with BA 70)<br>approx. 144 g (0.32 lbs) (without BA 70)                                |
| Temperature                                | Operation: -10 °C to +50 °C (14 °F to 122 °F)<br>Storage: -25 °C to +70 °C (-13 °F to 158 °F)                    |
| Relative humidity                          | 25 % to 95 % (non-condensing)                                                                                    |



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## SEK (UHF) | SEK (1G4)

### DIMENSIONS

