



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).

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

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



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ACCESSORIES

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



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SPECIFICATIONS

System

Transmission scheme	Multicarrier, TDMA, TDD
RF channel	Bandwidth: 6 or 8 MHz countrywise limited Mobiles devices: up to 128 per RF channel Audio links: up to 128 per RF channel
Radio frequency range	UHF: 470 - 608 MHz, 630 - 698 MHz 1G4: 1350 - 1400 MHz, 1435 - 1525 MHz countrywise limited
Audio frequency response	20 Hz to 20,000 Hz (± 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/ 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)



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SPECIFICATIONS

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



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DIMENSIONS

