FreeSpeak II 1.9 GHz Beltpack

FreeSpeak II Wireless Solutions

FSII-BP19

Key Features and Benefits

Beltpack

- Functions with FreeSpeak BASE-II, FreeSpeak Edge Base, Arcadia Central Station and Eclipse HX via E-IPA cards
- 1.9, 2.4 and 5.0 GHz beltpacks operate on a single system
- Supports up to 200 beltpacks on a single system (see Capacity Chart for details)
- Encoder Volume Swap between A&C and B&D
- "Listen Again" message replay
- Simple 2-channel partyline operation to 5-channel intercom on the same beltpack
- Over-the-air beltpack registration

Connectivity

- 1.9 GHz radio frequency
- Typical range 300ft (90m), outdoor range 800ft (240m)
- Robust radio link works in high multipath or reflective environments
- FSII 1.9 beltpacks with firmware version 5.3.32.0 upwards support Bluetooth® headsets

Mechanical

- IP53 rating for wet and dusty conditions
- 18+ hour battery life or USB port for continuous operation

FreeSpeak II® is a high performance wireless solution operating in the 1.9 and 2.4 GHz frequency bands designed for extensive communication in large-scale operations.

Description

The FSII-BP19 is a rugged, water-resistant beltpack that operates in the ISM license-free 1.9 GHz frequency range. Featuring the "Clear-Com Sound", the FSII-BP19 has high audio bandwidth for superior intelligibility and listening comfort.

Operation

The FSII-BP19 can connect to the FreeSpeak II Base Station, FreeSpeak Edge Base Station, Arcadia Central Station or to the Eclipse® HX matrices using the E-IPA-HX interface card. FSII-BP19 users can roam seamlessly between either FSII-TCVR-19 or FSII-TCVR-IP-19 transceivers over wide areas. The "Listen Again" feature allows users to replay earlier commands, eliminating the need to repeat communication or disturb productions. Volume Swap allows for independent level control on channels A, B, C, and D listens.

Increase System Size

The FSII-BP19 can be used interchangeably with any other FreeSpeak II or FreeSpeak Edge beltpack on the same system. Depending on what system you connect to, you can increase the quantities of beltpack users that operated on a single system (see Capacity Chart for details).

Durability

The FSII-BP19 is IP53 rated for wet weather or dusty conditions making it ideal for outdoor productions. For better grip and protection, the beltpack has a rubberized over-mold to protect it from the most rugged environments.

Battery

Using the BAT60 Li-Ion battery, the FSII-BP19 has 18+ hours of battery life. The beltpacks also include an USB charging port for recharging or for continuous powered transmissions.

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FreeSpeak II 1.9 GHz Beltpack

FreeSpeak II Wireless Solutions

Capacity Chart

	Max Beltpacks	Max TCVRs	Max BPs per TCVR
FreeSpeak II Base II 5Up	5	2 (E1) 10 (via 2 FSII-SPL)	5 (E1)
FreeSpeak II Base II	25	2 (E1) 10 (via 2 FSII-SPL)	5 (E1)
FreeSpeak Edge Base	16	2 (E1) 10 (via 2 FSII-SPL) 6 (IP)	5 (E1) 10 (IP)
Arcadia Central Station	64	2 (E1) 10 (via 2 FSII-SPL) 32 (IP)	5 (E1) 10 (IP)
Eclipse HX (via E-IPA Cards)	192 Delta 200 Median/Omega	192 Delta (IP) or 30 (via 6 FSII-SPL) 256 Median (IP) or 40 (via 8 FSII-SPL) 320 Omega (IP) or 50 (via 10 FSII-SPL)	5 (E1) 10 (IP)

*Note: Each E-IPA Card supports either a) up to 64 beltpacks with 64 IP Transceivers or b) up to 50 beltpacks with 10 E1 Transceivers using 2 Splitters

Technical Specifications

Audio

Audio Bandwidth: 200Hz-7.5KHz
No. of Full-Duplex Audio Paths: Up to 5 with individual level control (2 dedicated rotaries, 3 with menu), 2 controls and a main volume
Mode of Operation: Full duplex on all routes
Level/Talk Controls: 4 pushbuttons, a reply button and 2 rotary controls
Enter/Answer-Back Button: 1
Bluetooth 4.3 Headset Profile
Codec: MSBC using HFP (Hands Free Profile)

Frequency Spectrum

USA, Canada, Mexico: 1920-1930 MHz
Transceiver Range Output Power: 100mW

EU, Russia, Ukraine, Singapore, Hong Kong, Australia, New Zealand, South Africa: 1880-1900 MHz
Transceiver Range Output Power: 250mW

Japan: 1893-1906 MHz
Transceiver Range Output Power: 250mW

Argentina: 1910 MHz-1930 MHz
Transceiver Range Output Power: 250mW

Brazil: 1910 MHz-1920 MHz
Transceiver Range Output Power: 250mW

Chile: 1910 MHz-1930 MHz
Transceiver Range Output Power: 70mW

Taiwan: 1880-1895 MHz
Transceiver Range Output Power: 250mW

Connectors

Headset Connector: 4-pin male, Clear-Com standard, options for 5-pin female and 7-pin male with PTT
Headset Voltage: Maximum of ~+8dBu as set by firmware
Microphone Type: Electret and Dynamic, selectable in beltpack menu

Microphone Voltage: Electret Mic:-45dBu (additional 2.5V DC bias voltage positive on Pin 2 and negative on Pin 1 via a 1k resistor).
Dynamic Mic: -55dBu
Headset Limiter: Selectable from beltpack menu
Max Distance (Beltpack To Transceiver, Indoor):
~300-500ft (90-150m)

Max Distance (Beltpack To Transceiver, Outdoor):
~800-1500ft (240-450m)

Power

Modulation: GFSK, TDMA frame 10ms Full and Long slot
Output: (EU/Russia) 10dBm average, (US) 18-20dBm
Range: Typical indoor range 300ft (90m), outdoor range 800ft (240m)
Battery: Li-Ion
Battery Charging: Drop-in charger (AC60) or local USB
Battery Life: 18+ hours with Li-Ion

Environmental

IP53 water and dust resistance
Operating: 32°-125°F (0°-50°C)
Storage: 32°-150°F (0°-70°C)
Humidity: Between 20% and 90%, Non-Condensing

Dimensions

Tapered design at largest points
3.9 x 5.1 x 1.8in (HxWxD)
(99 x 129.5 x 45.7mm)

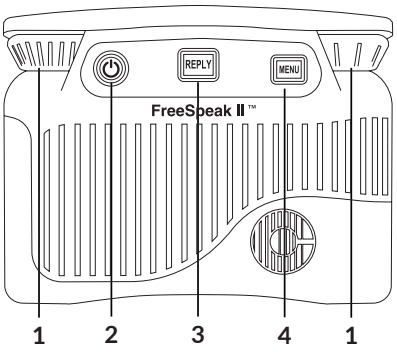
Weight

9.0oz (0.4kg) including batteries

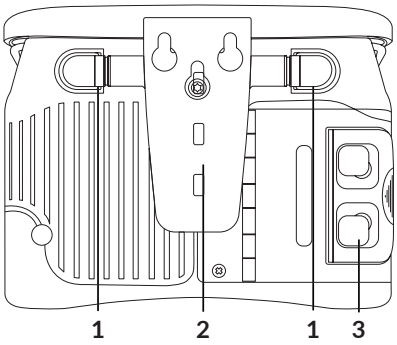
FreeSpeak II 1.9 GHz Beltpack

FreeSpeak II Wireless Solutions

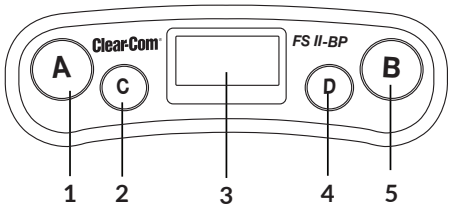
Front



Back



Top



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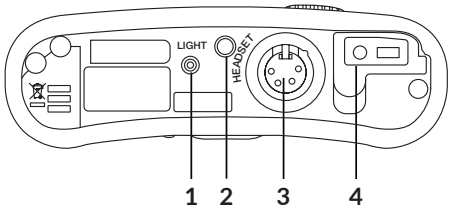

Legend

Front
1. Volume control
2. Power button
3. Reply button
4. Menu buton

Back
1. Shoulder strap hook
2. Belt clip
3. Battery door

Top
1. Channel A
2. Channel C
3. LCD
4. Channel D
5. Channel B

Bottom
1. Flashlight
2. Flashlight switch
3. Headset connector
4. USB and Audio Jack connectors

Order Codes

FSII-BP19-X4
FSII-BP19-X5
FSII-BP19-X7
FSII-BP19-X4-TW
FSII-BP19-X5-TW
FSII-BP19-X7-TW
FSII-BP19-X4-O2

Includes:
(1) BAT60 Battery

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Notice About Specifications | While Clear-Com makes every attempt to maintain the accuracy of the information contained in its documentation, that information is subject to change without notice. Performance specifications included in this document are design-center specifications and are included for customer guidance and to facilitate system installation. Actual operating performance may vary.

WARNING: Cancer and Reproductive Harm - **www.P65Warnings.CA.Gov**

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