FreeSpeak II 2.4 GHz Beltpack

FreeSpeak II Wireless Solutions



Key Features and Benefits

- Functions with FSII base, FreeSpeak Edge base, Arcadia Central Station, E-IPA-HX cards, and FSII splitter hardware
- Typical indoor range 300ft (90m), outdoor range 800ft (240m)
- 1.9 and 2.4GHz beltpacks operate on a single system
- Up to 65 90 beltpacks on a single system
- "Listen Again" message replay
- Simple 2-channel partyline operation to 5-channel intercom on the same beltpack
- Over-the-air beltpack registration
- 18+ hour battery life or USB port for continuous operation
- XLR-4M headset connector
- IP53 rating for wet and dusty conditions
- · Built-in flashlight

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-BP24 is a rugged, water-resistant beltpack that operates in the ISM license-free 2.4 GHz frequency range. Featuring the "Clear-Com Sound", the FSII-BP24 has high audio bandwidth for superior intelligibility and listening comfort.

Operation

The FSII-BP24 can connect to the FreeSpeak II base station, FreeSpeak Edge base station, Arcadia Central Station or to Eclipse® HX card frame matrices using the E-IPA-HX interface card. FSII-BP24 users can roam, seamlessly between FSII-TCVR-24 antennas over wide areas. The "Listen Again" feature allows users to replay earlier commands, eliminating the need to repeat communication or disturb productions.

Increase System Size

The FSII-BP24 can be mixed with FSII-BP19 beltpacks on the same system, increasing the quantity of beltpack users in a single radio space. In the US, up to 25 1.9 GHz and 40 2.4 GHz beltpack users can operate on a single system, while the rest of the world can have up to 50 1.9 GHz and 40 2.4 GHz beltpack users in the same radio space.

Durability

The FSII-BP24 is IP53 rated for wet weather or dusty conditions making them ideal for outdoor productions. For better grip and protection, the beltpack has a rubberized over-mold to protect from the most rugged environments.

Battery

Using the BAT60 Li-lon battery, the FSII-BP19 has 18+ hours of battery life. Using an alternative set of 3 AA cells, the battery life is 6-9 hours. The beltpacks also include an USB charging port for recharging or for continuous powered transmissions.



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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

 $\textbf{Level/Talk Controls:}\ 4\ pushbuttons, a\ reply\ button\ and\ 2\ rotary\ controls$

Enter/Answer-Back Button: 1

Radio

Frequency Spectrum: 2.400-2.483MHz for EU and US cellular auto

roaming technology

Modulation: GFSK, TDMA frame 10ms full and long slot Output power: (EU) 18-22dBm, (US) 18-20dBm

Range: Typical indoor range 300ft (90m), outdoor range 800ft (240m)

Battery: Li-Ion or 3 AA alkaline cells

Battery Charging: Drop-in charger (AC60) or local USB

Battery Life: 18+ hours with Li-lon; 9 hours with 3 x Alkaline AA cells

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). **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)

Environmental

IP53 water and dust resistance Operating: 32°-125°F (0°-50°C) Storage: 32°-150°F (0°-70°C)

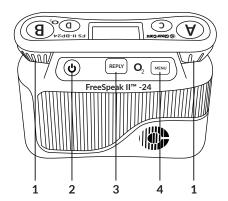
Humidity: Between 20% and 90%, Non-Condensing

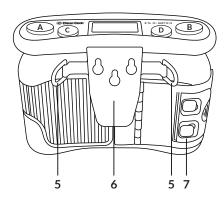
Dimensions

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

Weigh

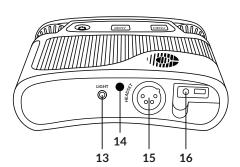
9.0oz (0.25kg) including batteries



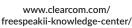


Legend

- 1. Volume control
- Power button
- 3. Reply button
- 4. Menu button
- 5. Shoulder strap hook
- 6. Belt clip
- 7. Battery door
- 8. Channel A
- 9. Channel C
- 10. LCD
- 11. Channel D
- 12. Channel B
- 13. Flashlight
- 14. Flashlight switch
- 15. Headset connector
- 15. Headset connector
- 16. USB and Audio Jack connectors







Order Codes

FSII-BP24-X4: Beltpack with XLR-4M headset connector, approved for use in USA, Canada and world wide sales except EU

FSII-BP24-X5: Beltpack with XLR-5F headset connector, approved for use in USA, Canada and world wide sales except EU

FSII-BP24-X7: Beltpack with XLR-7M headset connector, approved for use in USA, Canada and world wide sales except EU

FSII-BP24-X4-EU: Beltpack with XLR-4M headset connector, approved for use in the EU only

FSII-BP24-X5-EU: Beltpack with XLR-5F headset connector, approved for use in the EU only

FSII-BP24-X7-EU: Beltpack with XLR-7M headset connector, approved for use in the EU only

