

Pyrodigital®

CONTROL & RELIABILITY



Bridge to wireless.

WB-E Falcon Wireless Base

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Device Description:

The WB-E Falcon Wireless Base is a compact and high-performance solution designed to wirelessly interconnect Pyrodigital networks, enabling seamless point-to-point or point-to-multipoint connections as a wireless bridge. Retaining the powerful features of the Eagle Wireless Base, the Falcon offers compatibility with all prior Pyrodigital devices, intuitive design and operation, and an extended range of up to 3.7 miles in rural environments. Encased in a waterproof and RF-shielded housing, the device ensures reliability and durability for various environments and applications.

Use Cases:

The Falcon Wireless Base is an excellent solution for creating a wireless bridge to extend Pyrodigital networks at events such as sports, concerts, movie productions, and pyromusicals with barges. It can seamlessly connect with other Falcon and Eagle Wireless Units in mixed configurations, offering great scalability. With up to 46 hours of standby time on battery, the Falcon ensures reliable performance and efficient operation. In slave mode, the device can drive up to 40 FM-A Field Modules for 16 hours on battery. When using an external power supply (available accessory), the Falcon Wireless Base provides additional output power, allowing it to drive a full Pyrodigital network of 128 FM-A firing modules endlessly. To support even larger scale fireworks shows, one Falcon can control up to 12 Falcon and Eagle units in slave mode.



Tailored case and
mounting brackets
available

External power
supply available



Core Features:

- Compact and high-performance design
- RF network topologies: point-to-point/point-to-multipoint
- Frequency Hopping Spread Spectrum, 256-bit AES encryption, cipher block chaining
- Frequencies: ISM 902 to 928 MHz (1 Watt)
- Line of sight range using Yagi-Antennas: Rural up to 6.0 km, urban 1.6 km
- 46-hour standby time and 16-hour active time with a network of 40 FM-As
- Full backward compatibility and compatibility with WB-A Eagle
- Additional Iso-Booster functionality
- Local check status capability
- Waterproof and RF-shielded housing
- Endless operation of full networks (128 FM-As) with the available external power supply
- Integrated signal strength and battery monitoring systems
- 2-year warranty