Option Technologies Interactive
an iDNA company

OptionFinder® micro+

Full multi-digit capability and features in a compact format

The all-new OptionFinder® **micro+** is a small, highly portable response device at an exceptional price. It makes interactive events economical for groups of any size. Seasoned users and savvy newcomers alike will benefit from the **micro+**'s valuable feature set:

Powerful abilities: Participants can provide multiple choice and single or multi-digit numeric input. They will also be able to link to different meetings with a simple keypad feature. Your staff and users will appreciate the intuitive design and will have fewer questions.

Proven performance: The **micro+** uses patented Frequency Hopping Spread Spectrum (FHSS) technology for secure and reliable communications. The keypad LED display lets participants know their input has been counted.

Class-leading TCO: Low acquisition costs and durable, proven manufacturing standards will enhance your bottom line. The molded case is resistant to damage and breakage and the circuitry is designed for long-term reliability. The small size of the **micro+** also minimizes shipping and storage costs.

Whether you're looking to expand your interactive options with a new response keypad or to try a response system for the first time, the all-new OptionFinder® **micro+** is ready to provide great value and ease-of-use.

Technical Specification for Wireless Keypad Model: OptionFinder® micro+

Enclosure

- Compact, ultra-durable molded ABS plastic case.
- Dimensions: 3.0" L x 1.5" W x 0.4" H.
- Weight: less than 1 ounce with battery installed.
- Easy to wear with optional lanyard.
- Color: Black.

User Input

14 buttons for entering simple or multi-digit responses. Numbers (0-9) plus special keys for Decimal Point, Alert, Link and Send.

Display

Green and red LED lights confirm key presses and successful transmission to the receiver.

RF Technology

Employs specially designed 2.4 GHz frequency hopping spread spectrum (FHSS) transceivers for excellent range, immunity to interference, and security.

Patented and proprietary radio protocol.

- Creates a secure communications network between keypads and their associated receiver.
- User entries are acknowledged when received by the receiver (patented feature).
- Operates reliably in the presence of other RF devices (WLANs, PDAs, phones, etc.).
- Integrated error checking discriminates system signals from all other RF traffic, including WiFi, to ensure data accuracy and to enhance security.

Internal antenna is protected by the keypad enclosure.

User Identification

The Link key allows each keypad to easily identify itself and change its channel via dynamic addressing to communicate with any session or meeting. Users can easily participate in multiple sessions or activities without the need for manual rostering or

Option Technologies Interactive
an iDNA company

OptionFinder® micro+

Full multi-digit capability and features in a compact format

attendance verification.

Each keypad has an RF device identity ("address") between 1-500 and a channel identity between 1-31. Addresses can be changed with the optional Director portable programmer.

Each keypad has a unique device serial number which is permanent and is transmitted with every response.

Range

Spread spectrum technology is designed to operate in an indoor area 300 x 300 feet (90 x 90 meters). A room's geometry and RF propagation characteristics will influence the actual range experienced.

Speed

Default speed is 200 keypads per second. Polling rates are adjustable and can achieve ½-second speed in groups of 100 or less.

Power and Power Management

Powered by one replaceable lithium cell battery.

- Energy-intelligent keypad powers down after each response to conserve battery life.
- Battery life is ~20,000 responses or battery shelf life, whichever comes first.
- Low battery indicated on display. The keypad can also transmit a low battery alert to the receiver.

Communications Security

A proprietary response verification protocol integral to the radio design provides a high degree of signal security.

Frequency hopping and proprietary data communications are additional deterrents to clandestine interception.

Scalability

500 keypads per receiver channel and 31 channels available for 15,500 keypads per room/site, and up to 37,500 per room/site are possible in optional arena mode with 75 channels.

Firmware resides in high performance microprocessor chips that can be reprogrammed to facilitate easy upgrade during the life of the product.

Add keypads to an existing system by simply assigning them to a receiver channel and an available address (can be completed automatically or manually).

Compliance and Patents

FCC, IC, CE certified. Call for details regarding these and other regulatory certifications.

U.S. Patent Nos. Re. 35,449; 5,724,357; 6,021,119; 6,665,000. European Patent No. EP 0 697 773. Other U.S. and foreign patents pending.

Warranty

2 year limited warranty, factory parts and labor.

Receivers: OptionFinder® micro+ USB or OptionFinder® G3

Connects to the presenter's PC through USB or ethernet ports. Controlled by OptionPower® software applications.

Dimensions

USB: 3"W x 0.5" H x 0.9" D
G3: 6.25" W x 2.25" H x 5" D

Unit Weight

USB: less than 1 ounce
G3: 9 ounces

Capacity

500 keypads per channel and 31 channels allows up to 15,500 keypads per room, and 37,500 per room in optional arena mode (75 channels).

Speed

Receiver polling cycles are adjustable to optimize speed for group size. For example, a group of 100 keypads can be polled every one-half second, whereas a group of 37,500 can be polled every 5 seconds via multiple receivers.

Connections

Attaches to the operator's PC by USB or ethernet connection (USB cable included).

Power Source

Powered by computer USB connection with 70-130 mA current draw, or by Power Over Ethernet (POE) using midspan and power injector.