



The OptionFinder® micro 4 is a next generation, 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 4's valuable feature set:

**Powerful capabilities:** 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 4 keypad 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 and battery life of one year. The small size of the micro 3 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 OptionFinder® micro 4 is ready to provide great value and ease-of-use.

### Technical Specification for Wireless Keypad Model: **OptionFinder® micro 4**

#### Enclosure

- Compact, ultra-durable molded ABS plastic case.
- Dimensions: 3.5" 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 (0-10) plus special keys for Clear, 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

Each keypad has an RF device identity ("address") between 1-500 and a channel identity between 1-31. Keypad channel and address # can be programmed using the base station and OptionPower software. 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 12 month of 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.

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<sup>®</sup> micro 4 USB



## Dimensions

USB: 3"W x 0.5" H x 0.9" D

## Unit Weight

USB: less than 1 ounce

## 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.



## Carrying Cases

### OP-M10-OptionFinder micro 4 Soft Carry Case

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Small portable padded black nylon case for storing Micro 4 keypads, base unit and software. Case includes a sturdy carrying handle and built-in mesh pocket to carry software and accessories.

#### Capacity

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With base unit OptionFinder USB Stick Receiver, the case holds 50 keypads.

#### Dimensions

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8.5" X 11" X 4"

#### Weight

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3 ounces (empty)



### OP-G2720 Option finder Large Rolling Case (with handle and wheels)

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This durable, black resin rolling case helps protect your system during transport and easily glides along in the airport. It will hold up to 4 Micro Soft Carry Cases.

#### Dimensions

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24.6" X 19.7" X 14.4"

#### Weight

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18.5 pounds