

# OptionFinder® G2



## The Next Generation OptionFinder System

OptionFinder G2 is OTI's next generation single digit response system. This advanced two-way radio platform is smaller, lighter, faster, and more powerful than its predecessor, OptionFinder SR.

OptionFinder G2 uses breakthrough frequency hopping spread spectrum (FHSS) radio technology to achieve superior range, reliability and security. The system may be used worldwide on the license-free 2.4 GHz band.

OptionFinder G2 is compatible with previous versions of OptionPower and OptionFinder software. It provides a seamless migration path for clients who need to replace an existing system.

The G2 keypad is smaller and lighter, weighing just five ounces. It offers ten numeric keys for multiple choice responses (0-10 choices). The bright LED display is easy to read and provides patented confirmation of every response.

The OptionFinder G2 base station is small, light and portable. It uses a convenient USB connector, internal antenna array and weighs only eight ounces. One base station can receive responses from up to 250 keypads and operates at a range of 450 feet.

OptionFinder G2 is the ideal solution for facilitated meetings, training and classroom applications.

## Technical Specification for Wireless Keypad Model: OptionFinder G2

### Enclosure

- Compact, rugged molded ABS plastic case.
- Dimensions: 6" L x 2.5" W x 1" H.
- Weight: 5 ounces.
- Color: OptionFinder Blue

### User Input

15 keys for entering multiple-choice responses. Numbers (1-9, 0) and soft key symbols (1-3 bars).

Display shows user entry plus confirms when the Base Station accepts the keypad's input.

### Display

Seven segment LED is easy to read in all lighting conditions. Display shows user entry plus confirms when the Base Station accepts the keypad's input.

Display coordinates with numbers (1-10) and soft key symbols (1-3 bars).

### RF Technology

Employs specially designed 2.4 GHz frequency hopping spread spectrum (FHSS) transceivers.

- FHSS offers excellent range, immunity to interference, and security.

Patented and proprietary radio protocol.

- Creates a secure communications network between keypads and their associated Base Station.
- User entries are acknowledged when received by the Base Station (Patented feature).
- Permits G2 systems to operate reliably in the presence of other RF devices (WLANs, PDAs, phones, etc.). Integrated error checking discriminates system signals from all other RF traffic to ensure data accuracy and enhance security.

Internal antenna is protected by the keypad enclosure.

## User Identification

Each keypad has a RF device identity ("address") between 1-250 plus a channel identity between either 1-15 .

Addresses are user programmable. Each keypad has a unique device serial number.

## Range

Spread spectrum technology is designed to operate in an indoor area 450 x 450 feet (150 x 150 meters). A room's geometry and RF propagation characteristics will influence actual range experienced.

## Speed

Default speed is 100 keypads per second. Polling rates are adjustable and can achieve ½ second speed in smaller groups (<50).

## Power and Power Management

Powered by two standard AA batteries.

- Keypad powers down after each response to conserve battery life.
- Battery life is ~10,000 responses or battery shelf life, whichever comes first.
- Low battery indicated on display. Also, keypad can transmit a warning to Base Station.

## 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

250 keypads per Base Station channel identity. 15 identities available for 3,750 keypads per room/site.

Arena Configuration: 72 identities for 18,000 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 programming new units to unused addresses.

## 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 and patents pending.

## Warranty

2 YEAR limited warranty, factory parts and labor.



## Base Station: OptionFinder G2 - Model 940B

Connects to presenter PC through USB port. Controlled by OptionFinder and OptionPower software applications.

**Dimensions:** 6.5" W x 2.25" H x 5" D.

**Unit Weight:** 8 ounces.

**Capacity:** 250 keypads per channel identity. 15 identities allows 3,750 pads per room.

**Arena version:** Up to 72 identities allows up to 18,000 keypads per room.

**Speed:** Base Station polling cycles are adjustable to optimize speed to group size. For example, a group of 50 keypads can be polled every one-half second, whereas a group of 3,750 can be polled every 2.5 seconds.

**Connections:** Attaches to the operator's PC by USB connection. (USB cable included.)

**Power Source:** Powered by computer USB connection. Current draw 50 mA.



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