vistacom MINI+
Audience Response Keypad

We Put The World's Best Audience Response *Technology Right at Your Fingertips.*

As a leader in the audience response industry—and as the company known for "Best in Class" customer service—Vistacom is the ultimate source for everything to do with audience response. Count on us to bring you the latest technologies, help in choosing the best product(s) for your applications, and all the support and training you need to get the most from your purchase.

SPECIFICATIONS FOR THE MINI+ KEYPAD

Enclosure

- Compact and rugged ABS plastic case
- 3" L x 1.5" W x 0.4" H (76 mm x 38 mm x 10 mm)
- Weight: < 1 oz (25.5 grams) with battery installed
- Color: Black

User Identification

- Each keypad has a RF device identity ("address") between 1-500 plus a RF base identifier ("channel") between 1-31
  - Addresses may be changed by using an optional WRS960X-T portable programmer (sold separately)
- Each keypad also has a unique device serial number
  - Serial numbers are permanent and set at manufacturing

User Input

- 14 elastomeric enamel buttons
  - Ten keys numbered 0-9 plus a "*" key allow entry of simple or sophisticated responses (ex. 235.06))
  - Entries can be "speed scored" to 0.05 second (50 millisecond) resolution to identify group response sequence ('fastest finger') during competitive events

Display

- Green and Red LEDs confirm user keypresses and indicate when the Base Station accepts the keypad's inputs

RF Technology

- Two-way RF keypad uses eligible license-free/license-exempt frequencies to:
  - Communicate key presses to the Base Station
  - Receive control information and from the Base Station
  - Acknowledge keypad transmissions

THE MINI+ KEYPAD

- Light, Compact, Portable
- Easy-to-Use
- Fit with Lanyards for Advertising/ Sponsorship Opportunities
- Multiple Functions are available to conduct surveys, delegate voting, group decision-making, market research, classroom learning, and other advanced applications
- Easily Switch Sessions, Rooms, and Content Tracks on a single keypad
- Convenient Connectivity enables multi-site and distance event participation
- Supports Meetings up to 15,500 People

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- Employs Fleetwood-engineered 2.4 GHz frequency hopping spread spectrum (FHSS) transceivers
  - FHSS offers excellent range, immunity to interference, and signal security
  - Integrated Wi-Fi avoidance feature improves performance in high density wireless environments
- 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
  - Permits Reply 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
- 31 channel identities are available to provide installation flexibility and system expansibility
- Internal antenna is protected by the keypad enclosure

Range

- Designed to operate in an indoor area up to 300 ft x 300 ft (91 m x 91 m). A room's geometry, radio propagation characteristics, and proximity to RF interferers can influence the actual range experienced
- Elevating the base station often results in a performance advantage

Capacity

- 500 keypads per Base Station channel identity
  - 31 channels available for 15,500 keypads per room/site

Speed

- Polling rate is 200 keypads per second
  - Multiple base stations may poll simultaneously, permitting collection of up to 15,500 keypads in under 5 seconds

Power and Power Management

- Powered by one replaceable lithium coin cell battery (included)
- Keypad powers down after each confirmed response transmission to conserve battery life
- Battery life is approximately 20,000 responses or battery shelf life, whichever is shorter
- Low battery indicated on display. Also, keypad transmits a low battery warning to the Base Station

Security

- A proprietary response verification protocol integral to the radio design provides a high degree of signal security
- Frequency hopping and propriety data communications are additional deterrents to clandestine interception

Scalability

- Adding keypads to an existing system only requires them to be set to unused addresses. No change is required on the Base Station when adding keypads of the same channel identity.

Compliance and Patents

- Regulatory certifications: FCC, IC, CE
- U.S. Patent Nos Re. 5,379,213; 5,724,357; 6,021,119; 6,665,000; 7,277,671; 7,277,671 B1; 7,599,703 B2; 7,747,261 B2
- European Patent No EP 0 697 773; 1 337 127 B1; 1 427 228 B1; 1 478 099 B1
- Other U.S and foreign patents pending

Warranty

- 2 Year Limited Warranty (factory parts and labor)

Base Station Model WRS970

- Compact and programmable interface to your PC
- Controlled by application software
- Dimensions: 6.25" x 2.25" x 5" (159 mm x 57 mm x 126 mm)
- Unit Weight: Approx 8 oz (227 grams)
- Capacity: 500 keypads per channel identity. 31 channels available allows 15,500 keypads per room
- Speed: 200 keypads per second. Multiple base stations may poll simultaneously to collect responses from up to 15,500 keypads in 3 seconds
- Connections: Attaches to the operator's PC by USB or Ethernet connection (USB cable included)
- Primary Power Source: USB. Current draw 70-130mA
- Alternate Power Source: POE ("Power over Ethernet") using midspan and power injector

Base Station Model WRS971

- Compact USB stick styling that communicates with Reply Plus and Reply Mini+ keypads
- Controlled by application software

Reply Mini+ Keypad Programmer Model WRS960X-T

- A portable device that quickly reassigns Reply Mini+ keypad static addresses and channels without a PC or software
- Also used to toggle the Reply Mini+ address modes
- Dimensions: 6" L x 2.5" W x 1" D (152 mm x 63.5 mm x 25 mm)

Does **not** include accessories such as software and carrycases. These additional items are priced separately.

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It's not just the **hardware**, it's the **hard work**.

Vistacom Information Systems, Inc. Mühlhauser Feld 3 85664 Hohenlinden, Germany
P +49 (0) 89 90539366 **F** +49 (0) 89 90539365 **E** info@vistacomeu.com **W** vistacomeu.com

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