Rapid Deployment Kit™

The Hirsch Rapid Deployment Kit (RDK) is a high security, transportable, wireless intrusion detection system designed for temporary use where quick installation and immediate operation are critical. Dismantle and removal is equally quick for instant reuse. The system includes both premises and monitoring site components preconfigured to allow arming and remote monitoring of the site only minutes after arrival. The RDK is intended for covert or emergency applications, executive protection, crime scenes, and situations where costs and logistics prohibit stationing of temporary guard personnel.

Features
■ Portability in Heavy Duty Cases
  - Rugged for Rough Handling During Transport Phase
■ Area Protection in Minutes
  - 2 Wireless PIR Motion Detectors
  - 2 Wireless Door Contacts
  - Screw or Tape Mounting
■ ScramblePad® Arming Station
■ Basic System Setups Preconfigured
  - User Reconfigurable
■ Two Wireless Pagers
■ Wireless Remote Monitoring Station
  - Alarm & Event Annunciation
  - History Reports
■ Full Detail Audit Trail
■ Encrypted Network Communications
  - HEC 64 bit and Frequency Hopping Spread Spectrum
■ Supports Hardwired I/O
  - Local CCTV Activation
  - Access Control Options
  - Temporary to Permanent Installations
■ Interior and Perimeter Zones Can Be Controlled Separately
■ Battery Backup

Description
The Rapid Deployment Kit is based on the Hirsch DIGI*TRAC™ Model 2 controller for the premises unit and Velocity software for the monitoring site.

The DIGI*TRAC controller includes three expansion boards - one for network communications (SNIB), one for alarm inputs (AEB8), and one for relay outputs (REB8) to a pager system. Also, packaged in the expansion board stack is a wireless transceiver for the network communications to the notebook computer. The enclosure also contains wireless transmitters for communications to the sensors (wireless door contact and wireless PIR motion detector) and pagers. An uninterruptable power supply (UPS) is included which provides 4 hour backup power to all system components.

The network communications and the local pager antennae are screwed in place during deployment and are suitable for most applications.

A Hirsch ScramblePad is included with a prefabricated cable and connector that only has to be plugged into the side of the controller to become operational. The ScramblePad is used for arming and disarming the premises and provides local audible annunciation of the armed state.

The DIGI*TRAC controller is configured for 115VAC power with a removable USA cord and plug. A field conversion adaptor "plug" is provided to reconfigure the power supply for 230VAC. All the above equipment is packaged in a foam cushioned, hard sided case with wheels and extendable handle.

Monitoring site equipment includes a notebook computer, preloaded software, default database, and a transceiver for encrypted network communications to the DIGI*TRAC controller. In addition, two pagers are included to provide notification of alarm conditions to other personnel. This equipment comes in a lightweight, heavy-duty Pelican foam cushioned case with handle.

Encrypted Wireless Communications

Network communications are encrypted using Hirsch's 64 bit HEC encryption in addition to a Frequency Hopping Spread Spectrum (FHSS) technology originally developed for the US Department of Defense.

Typical Sequence of Operation

The RDK ships preconfigured for the following operation: Authorized personnel are assigned unique PIN codes for identification. They are also assigned common extension digits for common functions, such as arm and disarm. Upon commissioning, the system can be armed by entering a PIN number and arming extension digit onto the ScramblePad. This event is reported to the monitoring station and a 30 second timer is started. The individual has to pass through and close the door before the timer expires. When the timer expires, the ScramblePad will emit an audible tone (which can be heard outside the door) that indicates the system is armed. This, too, is reported to the monitoring station. When personnel re-enter the secure area, an event is reported to the monitoring station and the individual has 30 seconds to enter a PIN code and disarm extension digit on the ScramblePad. If the disarm code is not entered in time, an alarm will be sent to the monitoring station and pagers. Individual sensors can be masked to provide perimeter protection even when the room is occupied.

Alarm & Event Monitoring

From the Alarm Viewer, an operator can acknowledge and silence an alarm. Each alarm in the Alarm Viewer will have an indication of the type of alarm, priority level, time/date, and current condition. Once acknowledged, the alarm can be cleared.

Real-time event monitoring is available from the Event Viewer. The Event Viewer has columns for Date and Time, and a Description of the Event.

Every alarm and event is logged to disk for permanent storage or retrieval in reports. There are many standard reports with options for sorting and searching by date and time.

Specifications

- Radio Transceiver: FHSS
  - Frequency: 2.4 GHz ISM band; hops 417 independent channels
  - Range: Up to 1500 feet (457m) indoors or 2 miles (3.2km) outdoors at 9.6kbps with omni-directional antenna (included)
- Paging System
  - Local transmitter
  - Range: Up to 200 feet indoors at 2.4kbps with omni-directional antenna (included)
- Wireless Sensor System
  - Frequency: 313.5 MHz
  - Range: 70 to 100 feet indoors
  - PIR coverage: 10 feet, 120 degree angle

Monitoring Station

- Notebook computer: Pentium III, 256MB RAM, 10GB hard drive, CD-ROM, sound card & speaker, XGA display
  - 100-240V AC Power Adapter
- Operating System: Windows 2000 Pro (also compatible with XP Pro)
- Application Software: Velocity Version 2.5 or later
- Communications:
  - Serial Port: RS-232 SNet (SCRAMBLE*NET™ encrypted protocol)
  - Parallel Printer Port: Report (page) or Alarm/Event (line)
- Radio Transceiver with 120VAC Power Adaptor
  - 2 Wireless Pagers

Premises Equipment

- DIGI*TRAC Controller: Model M2N with AEB8, REB8 and CCM: Version 7.2.3 or later
- Hardwired I/O: 4 in, 4 out
- 115/230V AC 50/60 Hz power supply configured for 115V AC, with removable US 6 foot cord and grounded plug
- Radio Transceiver
  - 2 Wireless PIR Motion Detectors
  - 2 Wireless Door Contacts
- Spare batteries for pagers, PIR and door contact
- Mounting screws, screwdrivers, Velcro

Note: Special distance or environmental obstruction issues may be overcome by alternative directional or high gain antennae.

Ordering Information *[FSS GSA Contract GS07F-7733C]*

Model #	Description	Comments
RDK	Rapid Deployment Kit – Wireless Intrusion Detection and Alarm System	Consists of a premises unit and a monitoring unit in separate ruggedized cases. The premises unit consists of a specially configured DIGI*TRAC M2N with 7.2.3 CCM firmware, AEB8, REB8 and SNIB expansion cards, ScramblePad in ES1 stand with connector cable. Wireless transceivers and antennae are installed in the controller for network communications, pager communications, and sensor communications. Two wireless PIR motion detectors and two wireless door contacts are also included. The monitoring unit consists of an HTS3 notebook computer configured with Windows 2000 Pro, Hirsch Velocity software, and a default database, factory installed & tested. A wireless transceiver and two pager units are also included. The RDK will support a maximum of 4 wireless sensors.

HIRSCH ELECTRONICS

Global Headquarters

1900 Carnegie Ave, Bldg. B Santa Ana, CA 92705 USA
949-250-8888 Fax 949-250-7372
www.HirschElectronics.com

PDS015-803