CONCORD™

PRODUCT CATALOG

Concord™ Family Product Catalog

December 1999

Security
Automation
Fire Protection
Access Control

Interactive Technologies, Inc. • 2266 Second Street North, North Saint Paul, MN 55109 • **800/777-5484** • **www.itii.com**

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ITI Technology

The Concord Security System allows the greatest flexibility of any system in the industry.

Learn Mode™ Technology

ITI patented Learn Mode technology increases the ease and reliability of installations. Each sensor in a system has its own factory-programmed identity. ITI control panels "learn" the identity of each sensor in the system which eliminates programming errors in the field and other problems associated with the wireless systems of other manufacturers.

Installation Time

ITI Learn Mode systems are easy to install. Once the sensors are installed, they are added to the control panel memory; no sensor programming is required. Large residential systems can be installed in a single day by a relatively inexperienced installer. Smaller installations, such as apartments, can be completed in less than four hours.

Applications

ITI systems are used around the world to protect people and property. ITI systems are installed in museums for collection security, military installations for equipment security, utility companies for usage monitoring, nursing homes for resident monitoring, and universities for computer equipment security.

Home Automation

ITI systems go beyond burglar and fire protection. The home automation features available with some ITI systems allow the user to turn lights on and off at the touch of a button and control their heating and cooling system to save energy.

Two-Way Voice

ITI has responded to the growing concern over false alarm prevention and violent crime by developing its two-way voice technology. Two-way voice allows the central station operator to hear what is happening during an alarm and speak directly to the people on the premises.

Reporting and Off-site Programming Capabilities

ITI systems can report in SIA 2 and Contact ID formats and can report to most receivers. With many ITI systems, system programming changes can be made over the phone using ITI ToolBox™ upload/download software.

Ratings

The newest ITI products meet the following ratings:

- UL 985 (Household fire)
- UL 1023 (Household burglary
- CSFM (California State Fire Marshall)
- ULC pending (UL of Canada)

Sensors

The flexible design of the Concord Family makes it compatible with most hardwire sensors and the ITI patented Learn Mode™ sensors. Each Learn Mode sensor has its own factory-programmed identification code that is “learned" by the control panel, which eliminates programming errors in the field.

SAW sensors are distinguished from ITI’s Crystal line by their use of Surface Acoustical Wave (SAW) radio technology and consumer-replaceable alkaline batteries. The SAW sensor offering includes a door/window sensor, PIR motion sensors, a water sensor, a freeze sensor, and a keychain touchpad.

BURGLARY

To protect against intrusion, theft and violence, hardwire sensors and all ITI Learn Mode wireless sensors can be added to the Concord Security Systems.

LIFE SAFETY

Sensors can also protect against the dangers of fire and carbon monoxide. Help is summoned in the event of a medical emergency.

ENVIRONMENTAL

Your customers can be warned of flooding basements and furnace failures before costly damage is done.

HOME AUTOMATION

Home Automation Modules, exclusive to the Hybrid, Integrated, and Commercial panels, provide added security and convenience. Lights can cone on automatically at scheduled times during the day, the system can be controlled from any touchtone phone, and heating and air conditioning can be managed while your customer is away from home.

Concord Family Line

The Concord™ family of products is a complete source for all your security needs. From entry-level to high-end residential and new construction markets to commercial application, the Concord product line has the right solution for the job. It includes four product versions: Concord Express, Concord Hybrid, Concord Integrated, and Concord Commercial.

Concord is a hardwire hybrid family that provides reliable burglary detection, life safety protection, and home automation. Modular design gives Concord the flexibility you need to create system solutions your customers want.

Residential, New Construction, and Commercial Security Solutions

The flexible design of Concord is your key to satisfied customers and profitable upsell opportunities. Within the Concord product line, choose the panel that matches each customer’s individual budget and system requirements. From there, tailor the panel by selecting from its list of compatible options.

CONCORD EXPRESS

An integrated hardwire/wireless security system that provides burglary and fire detection. Offering up to 24 zones, Concord Express gives small- to mid-sized residential customers an affordable, dependable security choice.

CONCORD HYBRID

With 2 partitions and up to 76 zones, the Concord Hybrid panel is designed for mid to large residential and commercial security and home automation needs. The hybrid panel comes standard with 8 hardwire zones and can be expanded with additional hardwire inputs and outputs and RF receivers.

CONCORD INTEGRATED

The Concord Integrated includes 16 or 32 wireless zones built-in. Featuring 8 standard hardwire zones, 2 partitions and the ability to expand to 76 total zones, the integrated panel is an excellent offering for your high-end residential and commercial customers. The Integrated panel provides comprehensive hardwire and wireless security, life safety, and home automation solutions.

CONCORD COMMERCIAL

For commercial locations requiring UL listed burglary panels, Concord Commercial is the correct security choice. The commercial panel has the UL 1610 approval for commercial burglary. With 2 partitions and up to 76 zones, Concord Commercial provides complete intrusion protection for your commercial customers.

Concord Express System Configuration

To configure a Concord Express Security System, start by selecting the control panel components listed on pages 1 thought 3.

Control Panel

Description/Features	Specifications	Accessories
■ Provides commercial and residential security ■ 6 built-in hardwire zones (24 total zones with optional expansion cards) ■ 16 user-access codes with user-program able authority ■ 2-wire smoke detector compatibility ■ 8 built-in wireless zones	■ 16.5 VAC, 25 VA, 60 Hz transformer ■ 12 VDC, 4 Ah sealed, lead-acid backup battery ■ Regulated, current limited, fused 12 VDC output ■ 15-minute battery test under load every 24 hours ■ Gray, wall mount, steel enclosure ■ 40 to 100 °F operating temperature ■ 9.0” wide x 11.0” high x 3.0” deep	60-763 Lock and keys for Concord Express enclosure 60-791 Installation Programming Cable (connects LCD touchpad to panel for on-site programming) 60-793 Concord Expansion Module (holds up to six single-sized SuperBus modules)

60-806-95R
Concord Express Control Panel

Power

■ Provides primary power to the control panel

■ 16.5 VAC power supply
■ 120 VAC @ 60 Hz power requirement
■ Beige
■ 32 to 110 °F operating temperature

60-822
16.5 VAC, 25 VA Class II Transformer

■ Provides backup power to the control panel and hardwired devices when fully charged and AC power is out
■ Backup battery provides up to 24 hours backup power

■ 1-year battery life

60-681
12 VDC, 4.0 Ah Lead Acid Battery

CPU Expansion Cards

Description/Features

60-756
4-Zone Input/2 Form-C Relay Output SnapCard

60-757
8-Zone Input SnapCard

- Attaches to the CPU circuit board Snapcard connection port
- Includes one 12V two-wire smoke detector loop (provides 100 mA of power to Style B smoke detectors)
- Provides three supervised UL Fire-rated hardwire loops
- Includes two "Form C" contact relays controlled by a touchpad or a combination of states and system events
- End-of-line supervision with 2K ohm resistor

60-757:

- Includes two 12V two-wire smoke detector loop (provides 100 mA of power to Style B smoke detectors)
- Provides six supervised UL Fire-rated hardwire loops

Specifications

- Power source 12 VDC at 185 mA maximum
- 40 to 120 °F operating temperature
- 70% maximum relative humidity, non-condensing
- 5.25" wide x 2" high x 0.75" deep

60-757:

- Power source 12 VDC at 120 mA maximum

Accessories

Hardwire Touchpads

60-820
SuperBus 2000 Fixed English LCD Touchpad

- 27 defined English text status messages
- 1 line, 11 character LCD
- Time displayed during idle periods
- Keypad door with user-help label
- Built-in speaker sounds alarm, status sounds, and button-press beeps
- Variable pitch sounder for the hearing impaired.
- 3 panic buttons
- Auto learning
- Only compatible with Express

- 2 VDC nominal (8 - 15.4 VDC), 65 mA (maximum)
- 40 to 100 °F operating temperature
- Maximum Humidity: 70% relative, noncondensing
- White
- 5.55” wide x 4.5” high x 1.1” deep

60-746
SuperBus 2000 2x16 LCD Touchpad

- Provides complete on-site programming and operational control of the system
- 2 line, 16 character back-lit LCD
- Built-in speaker sounds alarm, status sounds, and button-press beeps
- Panic buttons for police, fire, and auxiliary emergencies
- Quick Guide slides out of touchpad to provide basic system instructions
- Auto Learning (Express Only)

- 12 VDC nominal (8 - 15.4 VDC), 90 mA (maximum)
- 40° to 100 °F operating temperature
- Maximum Humidity: 70% relative, noncondensing
- White
- Wall mounting
- 4.5" wide x 5.0" high x .92" deep

60-803-04
SuperBus 2000 2-line 2x20 LCD Touchpad

60-804-04
SuperBus 2000 2-line 2x20 VFD Touchpad

- Provides complete on-site programming and operational control of the system
- 2 line, 20 character LCD
- Built-in speaker sounds alarm, status sounds, and button-press beeps
- Panic buttons for police, fire, and auxiliary emergencies

60-804-04:

- 2 line, 20 character VFD
- Backlit Display

- 12 VDC nominal (8 - 15.4 VDC), 115 mA (maximum)
- 40 to 100 °F operating temperature
- Maximum Humidity: 70% relative, noncondensing
- Belgian Grey
- 8.44” wide x 5.0” high x 1.25” deep.

60-804-04:

- 12 VDC nominal (8 - 15.4 VDC), 120 mA (maximum)

Wireless Touchpads

Description/Features

Specifications

Accessories

60-694-95R
5-Button SAW Keychain Touchpad

60-659-95R
4-Button SAW Keychain Touchpad

60-832-95
2-Button Encrypted Keychain Touchpad

- Recessed buttons help prevent false alarms
- LED confirms RF transmissions

60-694-95R:

- Single button panic control
- Provides convenient operational control of the system
- Recessed buttons help prevent false alarms
- Green LED confirms button presses
- Light control capability (60-606-319.5 only)

60-832-95:

- Each transmission to the panel is unique to provide added resistance to code grabbers.

- 12 VDC, 33 mAh alkaline battery included
- 5-8 year battery life
- 10 to 120 °F operating temperature
- Black
- Keychain mounting (keychain ring included)
- 1.4" wide x 2.25" high x 0.38" deep

60-711 12V 33 mAh Alkaline Battery

60-606-319.5
4-Button Keychain Touchpad

60-607-319.5
2-Button Keychain Touchpad

- Provides convenient operational control of the system
- Recessed buttons help prevent false alarms
- Green LED confirms RF transmissions
- Light control capability (60-606-319.5 only)

- 12 VDC, 33 mAh alkaline battery included
- 5-8 year battery life
- 10 to 120 °F operating temperature
- Black
- Keychain mounting (keychain ring included)
- 1.4" wide x 2.25" high x 0.38" deep

34-034 12V 33 mAh Alkaline Battery
466-1050 4-Button Keychain Touchpad Specification Sheet 50/pk
466-1072 2-Button Keychain Touchpad Specification Sheet 50/pk

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60-597-95
HiTech Hand Held Wireless Touchpad

- Provides portable operational control of the system
- Includes police, fire, and auxiliary panic buttons
- Light control capability
- Bypass capability
- Optional supervision reporting
- Can be wall mounted
- Quick arm
- Red/Green key press indicator light
- Convenient size and attractive styling

- 3 VDC LMN02 2/3 A button top battery (included)
- 5-8 year battery life
- Supervisory report every 64 minutes
- 10 to 120 °F operating temperature
- Belgian gray
- Portable or wall mounting (bracket included)
- 2.1" wide x 6.1" high x .86" deep

60-733 3 VDC LMN02 2/3 A Button Top Battery
444-1252 HiTech Hand Held Wireless Touchpad Mounting Bracket

60-348-10-95
Hand Held Wireless Touchpad

- Provides portable operational control of the system
- Includes police panic button
- Light control capability
- Bypass capability
- Optional supervision reporting
- Can be wall mounted
- Quick arm

- 3.5 VDC ½ AA lithium battery (included)
- 5-8 year battery life
- Supervisory report every 64 minutes
- 10 to 120 °F operating temperature
- Belgian gray
- Portable or wall mounting (bracket included)
- 2.56" wide x 2" high x .94" deep

34-026 3.5 VDC 1/2 AA Lithium Battery

Concord System Configuration

To configure a Concord Security System, start by selecting the control panel components listed on pages 4 through 9.

Control Panels

Description/Features	Specifications	Accessories
■ Provides commercial and residential security and home automation system control ■ 8 built-in hardwire zones (76 total zones with optional expansion cards) ■ 2 partitions ■ 60 user access codes ■ Controls lights and appliances on a time schedule, individually, or in groups (using optional Line Carrier Card) ■ 2-wire smoke detector compatibility 60-792-95R-16Z: ■ 16 built-in wireless zones (76 total zones with optional expansion cards) 60-792-95R-32Z: ■ 32 built-in wireless zones (72 total zones with optional expansion cards)	■ 24 VAC, 30 or 50 VA, 60 Hz transformer ■ 12 VDC, 4 Ah, or 7 Ah rechargeable, sealed, lead-acid backup battery ■ Regulated, current limited, fused 12 VDC output ■ 15-minute battery test under load every 24 hours ■ Belgian gray, wall-mount, steel enclosure ■ 40 to 100 °F operating temperature ■ 12.25" wide x 12.25" high x 3" deep	**60-763** Lock and keys for Concord enclosure **60-791** Installation Programming Cable (connects LCD touchpad to panel for on-site programming) **60-793** Concord Expansion Module (holds up to six single-sized SuperBus modules)

60-734
Concord Hybrid Control Panel

60-792-95R-16Z
Concord RF16 Integrated Panel

60-792-95R-32Z
Concord RF32 Integrated Panel

Power

Description/Features	Specifications	Accessories
■ Provides primary power to the control panel 60-762, 60-778, 60-779: 60-762: ■ Required for X-10 devices and supervised wireless siren (SWIS) ■ Must add 60-755 Power Line Carrier Card ■ 60-762 and 779 required for X-10	■ 24 VAC power supply ■ 120 VAC @ 60 Hz power requirement ■ 32 to 110 °F operating temperature ■ Black ■ 2.25" wide x 3.5" high x 1.75" deep	**60-755** Power Line Carrier Card

60-761
24 VAC, 25 VA Class II Transformer

60-762
24 VAC, 25 VA Class II Line Carrier Transformer - 1 Amp

60-778
24 VAC, 50 VA Class II Transformer

60-779
24 VAC, 50 VA Class II Line Carrier Transformer - 2.5 Amp

Description/Features	Specifications	Accessories
■ Provides backup power to the control panel and hardwired devices when fully charged and AC power is out ■ Backup battery provides up to 24 hours backup power	■ 1 year battery life	None

60-681
12 VDC, 4.0 Ah Lead Acid Battery

60-680
12 VDC, 7.0 Ah Lead Acid Battery

SuperBus Radio Receivers

Description/Features

60-764-95R-16Z
16-zone SuperBus Radio Receiver

60-764-95R-32Z
32-zone SuperBus Radio Receiver

60-764-95R-MAX
76-zone SuperBus Radio Receiver

- Mounts in Concord panel or can be located up to 2,800 feet away
- Receives signals from wireless sensors and touchpads then to the panel through the SuperBus digital data bus
- Spacial diversity
- Built-in tamper protection sounds an alarm if tampered with
- Compatible with all ITI 319.5 MHz (crystal or SAW Learn Mode wireless sensors and touchpads
- Adds or extends Concord wireless capabilities by up to 16 zones

60-764-95R-32Z:
- Adds or extends Concord wireless capabilities by up to 32 zones

60-764-95R-76Z:
- Adds or extends Concord wireless capabilities by up to 76 zones

Specifications

- 8-15 VDC at 30 mA maximum power required
- 32 to 120 °F operating temperature
- Belgian gray
- 5.25" wide x 4.125" high x 1" deep, excluding antennas

Accessories

60-793 Concord Expansion Module (holds up to six single-sized SuperBus modules)

CPU Expansion Cards

60-755
Power Line Carrier (X-10) Card

- Allows use of Supervised Wireless Sirens (SWIS)
- Allows use of X-10 Modules for light control and light activation during alarms
- Attaches directly to the CPU circuit board

- 5 and 12 VDC input @ 110 mA nominal current
- 10 to 120 °F operating temperature
- 2.95" wide x 1.95" high x 0.875" deep

See sensors for X-10 devices and SWIS.

60-756
4-Zone Input/2 Form-C Relay Output SnapCard

60-757
8-Zone Input SnapCard

- Attaches to the CPU circuit board Snapcard connection port
- Includes one 12V two-wire smoke detector loop (provides 100 mA of power to Style B smoke detectors)
- Provides three supervised UL Fire-rated hardwire loops
- Includes two "Form C" contact relays controlled by a touchpad or a combination of states and system events
- End-of-line supervision with 2K ohm resistor

60-757:
- Includes two 12V two-wire smoke detector loop (provides 100 mA of power to Style B smoke detectors)
- Provides six supervised UL Fire-rated hardwire loops

- Power source 12 VDC @ 185 mA maximum
- 40 to 120 °F operating temperature
- 70% maximum relative humidity, noncondensing
- 5.25" wide x 2" high x 0.75" deep

60-757:
- Power source 12 VDC at 120 mA maximum

SuperBus Expansion Modules

Description/Features

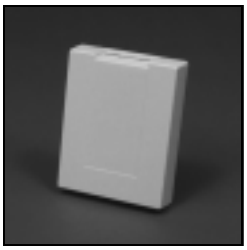
Specifications

Accessories

60-777
Phone Control and Voice Module

- Attaches to the CPU circuit board using the four-wire Superbus connection terminals
- Adds on-site and remote system control and from any touchtone phone
- An on-board digital-voice chip delivers system status messages over external speakers
- Voice chip includes more than 220-word vocabulary
- One module may be used to control a single or multiple partition Concord system
- In a multiple-partition system, each partition may use its own module connected to a separate phone line
- User-adjustable status speaker volume control
- On/off hook status sensing
- Ring detection
- DTMF decoding
- Local telephone power supply provides phone power during line-seize mode of operation
- Mounts on wall or in panel enclosure

- Power source 10-12 VDC at 600 mA maximum
- 40 to 100 °F operating temperature
- 70% maximum relative humidity, non-condensing
- Belgian gray
- 8" wide x 5.5" high x 1.25" deep
- Phone Line REN: 0.4 Ringer Equivalence
- One module/panel communications LED
- FCC Parts 15 and 68 Certified
- UL985 for Household Fire warnings (pending)
- UL 1023 for Household Burglar Alarms
- NFPA 72 for National Fire Alarm Code

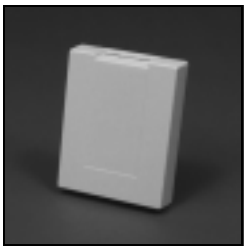


60-584
SuperBus Hardwire Input Module

- Provides up to eight additional hardwire zones
- Hardwire sensors can be configured N/O or N/C
- All zones supervised for open/short using 4.7K Ohm EOL resistor
- Module cover tamper protection option
- Built-in LED indicates proper communication to control panel
- Up to 8 modules per panel

- 12 VDC @ 18 mA max current draw
- 8 inputs configure N/O or N/C
- EOL supervision on each zone with 4.7K Ohm resistor
- 200 mA, 250 VAC fuse
- 32 to 120 °F operating temperature
- Belgian gray
- Tamper protection option
- Wall mounting
- 4.125" wide x 5.25" high x 1.0" deep

33-017 200 mA, 250 VAC Fuse 5/pk



60-585
SuperBus Hardwire Output Module

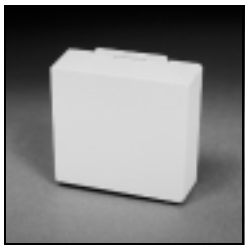
- Provides up to four additional hardwire outputs for home automation and security applications
- "Form C" relays can be configured N/O or N/C
- Module cover tamper protection option
- Built-in LED indicates proper communication to control panel
- Up to 8 modules per panel

- 12 VDC @ 11 mA typical (idle) or 91 mA max (all relays energized) current draw
- 4 outputs configure N/O or N/C
- 32 to 120 °F operating temperature
- Belgian gray
- Tamper protection option
- Wall mounting
- 4.125" wide x 5.25" high x 1.0" deep

33-017 200 mA, 250 VAC Fuse 5/pk

SuperBus Expansion Modules—Continued

Description/Features	Specifications	Accessories



60-620
SuperBus Energy Saver Module

- Provides a money-saving and convenient way to monitor and control the premises heating and cooling temperature
- Saves energy by overriding HVAC thermostat when user is gone
- User controls temperature limits for day and nighttime HVAC thermostat control
- Calibrates to premises thermostat
- Built-in freeze sensor activates furnace and alarm signal when the air temperature falls to 45 °F or to the programmed temperature
- Built-in LED indicates proper communication to control panel

- 12 VDC @ 20 mA max current draw
- Built-in freeze sensor activates at 45 °F (±6 °F)
- 22-gauge stranded wire
- 42 to 95 °F operating temperature
- Belgian gray
- Wall mounting next to thermostat
- 2.60" wide x 2.60" high x .90" deep

60-677
Interrogator 200 Audio Verification Module

- Gives the central station operator the ability to hear what is happening during an alarm and speak directly to the people on the premises
- Auto Gain Control circuitry means microphone requires no adjustments
- Up to 2 modules per control panel

- 12 VDC @ 10 mA max current draw
- 18-gauge stranded wire between speaker and control panel
- 22-gauge stranded wire for all other wire runs
- 40 to 100 °F operating temperature
- Belgian gray
- Recessed or surface mounting
- 6.9" wide x 4.9" high x 2.5" deep

Hardwire Touchpads

Description/Features

Specifications

Accessories

60-746-01
SuperBus 2000 2x16 LCD Touchpad

- Provides complete on-site programming and operational control of the system
- 2 line, 16 character LCD
- Built-in speaker sounds alarm, status sounds, and button-press beeps
- Panic buttons for police, fire, and auxiliary emergencies
- Quick Guide slides out of touchpad to provide basic system instructions
- Auto learn

- 12 VDC nominal (8 - 15.4 VDC), 90 mA (maximum)
- 40 to 100 °F operating temperature
- Maximum Humidity: 70% relative, noncondensing
- White
- Wall mounting
- 4.5" wide x 5.0" high x .92" deep

60-728
SuperBus LED Touchpad

- Provides operational control of the system
- 15 LEDs for easy visual system status
- 8 individual zone LEDs
- STAY, AWAY, and NO DELAY LEDS show system status
- *Enter Code* LED flashes to let user know when to enter their access code
- Quick Guide slides out of touchpad to provide basic system instructions

- 12 VDC nominal (8 - 14 VDC), 65 mA (maximum)
- 40 to 100 °F operating temperature
- Maximum Humidity: 70% relative, noncondensing
- White
- Wall mounting
- 4.5" wide x 5.0" high x .92" deep

60-803-04
SuperBus 2000 2-line 2x20 LCD Touchpad

60-804-04
SuperBus 2000 2-line 2x20 VFD Touchpad

- Provides complete on-site programming and operational control of the system
- 2 line, 20 character LCD
- Built-in speaker sounds alarm, status sounds, and button-press beeps
- Panic buttons for police, fire, and auxiliary emergencies

60-804-04:
- 2 line, 20 character VFD

- 12 VDC nominal (8 - 15.4 VDC), 115 mA (maximum)
- 40 to 100 °F operating temperature
- Maximum Humidity: 70% relative, noncondensing
- Belgian Grey
- 8.44" wide x 5.0" high x 1.25" deep.

60-804-04:
- 12 VDC nominal (8 - 15.4 VDC), 120 mA (maximum)

Wireless Touchpads

Description/Features	Specifications	Accessories
■ Recessed buttons help prevent false alarms ■ LED confirms RF transmissions **60-694-95R:** ■ Single button panic control ■ Provides convenient operational control of the system ■ Recessed buttons help prevent false alarms ■ Green LED confirms button presses ■ Light control capability (60-606-319.5 only)	■ 12 VDC, 33 mAh alkaline battery included ■ 5-8 year battery life ■ 10 to 120 °F operating temperature ■ Black ■ Keychain mounting (keychain ring included) ■ 1.4" wide x 2.25" high x 0.38" deep	**60-711** 12V 33 mAh Alkaline Battery

60-694-95R
5-Button SAW Keychain Touchpad

60-659-95R
4-Button SAW Keychain Touchpad

Description/Features	Specifications	Accessories
■ Provides convenient operational control of the system ■ Recessed buttons help prevent false alarms ■ Green LED confirms RF transmissions ■ Light control capability (60-606-319.5 only)	■ 12 VDC, 33 mAh alkaline battery included ■ 5-8 year battery life ■ 10 to 120 °F operating temperature ■ Black ■ Keychain mounting (keychain ring included) ■ 1.4" wide x 2.25" high x 0.38" deep	**34-034** 12V 33 mAh Alkaline Battery **466-1050** 4-Button Keychain Touchpad Specification Sheet 50/pk **466-1072** 2-Button Keychain Touchpad Specification Sheet 50/pk

60-606-319.5
4-Button Keychain Touchpad

60-607-319.5
2-Button Keychain Touchpad

Description/Features	Specifications	Accessories
■ Provides portable operational control of the system ■ Includes police, fire, and auxiliary panic buttons ■ Light control capability ■ Bypass capability ■ Optional supervision reporting ■ Can be wall mounted ■ Quick arm ■ Red/Green key press indicator light ■ Convenient size and attractive styling	■ 3 VDC LMN02 2/3 A button top battery (included) ■ 5-8 year battery life ■ Supervisory report every 64 minutes ■ 10 to 120 °F operating temperature ■ Belgian gray ■ Portable or wall mounting (bracket included) ■ 2.1" wide x 6.1" high x .86" deep	**60-733** 3 VDC LMN02 2/3 A Button Top Battery **444-1252** HiTech Hand Held Wireless Touchpad Mounting Bracket

60-597-95
HiTech Hand Held Wireless Touchpad

Description/Features	Specifications	Accessories
■ Provides portable operational control of the system ■ Includes police panic button ■ Light control capability ■ Bypass capability ■ Optional supervision reporting ■ Can be wall mounted ■ Quick arm	■ 3.5 VDC ½ AA lithium battery (included) ■ 5-8 year battery life ■ Supervisory report every 64 minutes ■ 10 to 120 °F operating temperature ■ Belgian gray ■ Portable or wall mounting (bracket included) ■ 2.56" wide x 2" high x .94" deep	**34-026** 3.5 VDC 1/2 AA Lithium Battery

60-348-10-95
Hand Held Wireless Touchpad

Concord Commercial System Configuration

To configure a Concord Commercial Security System, start by selecting the control panel components listed on pages 10 through 14.

Control Panel

	Description/Features	Specifications	Accessories
 60-801 Concord Commercial Hybrid Control Panel	■ Provides commercial security and business automation system control ■ 8 built-in hardwire zones (76 total zones with optional expansion cards) ■ 2 partitions ■ 60 user access codes ■ Controls lights and appliances on a time schedule, individually, or in groups (using optional Line Carrier Card) ■ 2-wire smoke detector compatibility ■ U.L. commercial listing UL 1610 ■ Lock set included	■ Tamper resistant enclosure ■ 24 VAC, 30 or 50 VA, 60 Hz transformer ■ 12 VDC, 4 Ah, or 7 Ah rechargeable, sealed, lead-acid backup battery ■ Regulated, current limited, fused 12 VDC output ■ 15-minute battery test under load every 24 hours ■ Belgian gray, wall-mount, steel enclosure ■ 40 to 100 °F operating temperature ■ 12.25" wide x 12.25" high x 3" deep	**60-791** Installation Programming Cable (connects LCD touchpad to panel for on-site programming) **60-793** Concord Expansion Module (holds up to six single-sized SuperBus modules) 60-817 Concord Commercial Bus Module Mounting Kit

Power

 60-761 24 VAC, 25 VA Class II Transformer 60-762 24 VAC, 25 VA Class II Line Carrier Transformer - 1 Amp 60-778 24 VAC, 50 VA Class II Transformer 60-779 24 VAC, 50 VA Class II Line Carrier Transformer - 2.0 Amp	■ Provides primary power to the control panel 60-762, 60-778, 60-779: 60-762: ■ Required for X-10 devices and supervised wireless siren (SWIS) ■ Must add 60-755 Power Line Carrier Card ■ 60-762 and 779 for X-10	■ 24 VAC power supply ■ 120 VAC @ 60 Hz power requirement ■ 32 to 110 °F operating temperature ■ Black ■ 2.25" wide x 3.5" high x 1.75" deep	**60-755** Power Line Carrier Card

SuperBus Radio Receivers

60-764-95R-16Z
16-zone SuperBus Radio Receiver

60-764-95R-32Z
32-zone SuperBus Radio Receiver

60-764-95R-MAX
76-zone SuperBus Radio Receiver

Description/Features

- Mounts in Concord panel or can be located up to 2,800 feet away
- Receives signals from wireless sensors and touchpads then to the panel through the SuperBus digital data bus
- Spacial diversity
- Built-in tamper protection sounds an alarm if tampered with
- Compatible with all ITI 319.5 MHz (crystal or SAW Learn Mode wireless sensors and touchpads
- Adds or extends Concord wireless capabilities by up to 16 zones

60-764-95R-32Z:

- Adds or extends Concord wireless capabilities by up to 32 zones

60-764-95R-76Z:

- Adds or extends Concord wireless capabilities by up to 76 zones

Specifications

- 8-15 VDC at 30 ma maximum power required
- 32° to 120 °F operating temperature
- Belgian gray
- 5.25" wide x 4.125" high x 1" deep, excluding antennas

Accessories

60-793 Concord Expansion Module (holds up to six single-sized SuperBus modules)

CPU Expansion Cards

60-755
Power Line Carrier (X-10) Card

- Allows use of Supervised Wireless Sirens (SWIS)
- Allows use of X-10 Modules for light control and light activation during alarms
- Attaches directly to the CPU circuit board

- 5 and 12 VDC input @ 110 mA nominal current
- 10 to 120 °F operating temperature
- 2.95" wide x 1.95" high x 0.875" deep

See sensors for X-10 devices and SWIS.

60-756
4-Zone Input/2 Form-C Relay Output SnapCard

60-757
8-Zone Input SnapCard

- Attaches to the CPU circuit board Snapcard connection port
- Includes one 12V two-wire smoke detector loop (provides 100 mA of power to Style B smoke detectors)
- Provides three supervised UL Fire-rated hardwire loops
- Provides false alarm prevention
- Includes two "Form C" contact relays controlled by a touchpad or a combination of states and system events
- End-of-line supervision with 2K ohm resistor

60-757:

- Includes two 12V two-wire smoke detector loop (provides 100 mA of power to Style B smoke detectors)
- Provides six supervised UL Fire-rated hardwire loops

- Power source 12 VDC at 185 mA maximum
- 40 to 120 °F operating temperature
- 70% maximum relative humidity, non-condensing
- 5.25" wide x 2" high x 0.75" deep

60-757:

- Power source 12 VDC at 120 mA maximum

SuperBus Expansion Cards

Description/Features

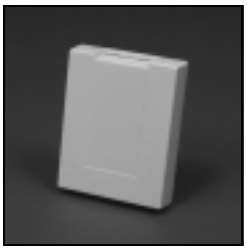
Specifications

Accessories

60-777
Phone Control and Voice Module

- Attaches to the CPU circuit board using the four-wire Superbus connection terminals
- Adds on-site and remote system control and from any touchtone phone
- An on-board digital-voice ship delivers system status messages over external speakers
- Voice chip includes more than 220 vocabulary
- One module may be used to control a single or multiple partition Concord system
- In a multiple-partition system, each partition may use its own module connected to a separate phone line
- User-adjustable status speaker volume control
- On/off hook status sensing
- Ring detection
- DTMF decoding
- Local telephone power supply provides phone power during line-seize mode of operation
- Mounts on wall or in panel enclosure

- Power source 10-12 VDC at 600 mA maximum
- 40 to 100 °F operating temperature
- 70% maximum relative humidity, non-condensing
- Belgian gray
- 8" wide x 5.5" high x 1.25" deep
- Phone Line REN: 0.4 Ringer Equivalence
- One module/panel communications LED
- FCC Parts 15 and 68 Certified
- UL985 for Household Fir warnings (pending)
- UL 1023 for Household Burglar Alarms (pending)
- NFPA 72 for National Fire Alarm Code (pending)

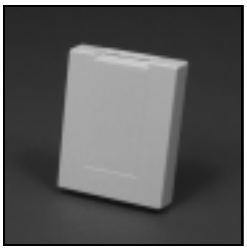


60-584
SuperBus Hardwire Input Module

- Provides up to eight additional hardwire zones
- Hardwire sensors can be configured N/O or N/C
- All zones supervised for open/short using 4.7K Ohm EOL resistor
- Module cover tamper protection option
- Built-in LED indicates proper communication to control panel
- Up to 8 modules per panel

- 12 VDC @ 18 mA max current draw
- 8 inputs configure N/O or N/C
- EOL supervision on each zone with 4.7K Ohm resistor
- 200 mA, 250 VAC fuse
- 32 to 120 °F operating temperature
- Belgian gray
- Tamper protection option
- Wall mounting
- 4.125" wide x 5.25" high x 1.0" deep

33-017 200 mA, 250 VAC Fuse 5/pk



60-585
SuperBus Hardwire Output Module

- Provides up to four additional hardwire outputs for home automation and security applications
- "Form C" relays can be configured N/O or N/C
- Module cover tamper protection option
- Built-in LED indicates proper communication to control panel
- Up to 8 modules per panel

- 12 VDC @ 11 mA typical (idle) or 91 mA max (all relays energized) current draw
- 4 outputs configure N/O or N/C
- 32 to 120 °F operating temperature
- Belgian gray
- Tamper protection option
- Wall mounting
- 4.125" wide x 5.25" high x 1.0" deep

33-017 200 mA, 250 VAC Fuse 5/pk

SuperBus Expansion Cards—Continued

Description/Features

- Gives the central station operator the ability to hear what is happening during an alarm and speak directly to the people on the premises
- Auto Gain Control circuitry means microphone requires no adjustments
- Up to 2 modules per control panel

Specifications

- 12 VDC @ 10 mA max current draw
- 18-gauge stranded wire between speaker and control panel
- 22-gauge stranded wire for all other wire runs
- 40 to 100 °F operating temperature
- Belgian gray
- Recessed or surface mounting
- 6.9" wide x 4.9" high x 2.5" deep

Accessories

60-677
Interrogator 200 Audio Verification Module

Hardwire Touchpads

Description/Features

- Provides complete on-site programming and operational control of the system
- 2 line, 16 character LCD
- Built-in speaker sounds alarm, status sounds, and button-press beeps
- Panic buttons for police, fire, and auxiliary emergencies
- Quick Guide slides out of touchpad to provide basic system instructions

Specifications

- 12 VDC nominal (8 - 15.4 VDC), 90 mA (maximum)
- 40 to 100 °F operating temperature
- Maximum Humidity: 70% relative, noncondensing
- Belgian gray
- Wall mounting
- 4.5" wide x 5.0" high x .92" deep

Accessories

60-746
SuperBus 2x16 LCD Touchpad

Description/Features

- Provides operational control of the system
- 15 LEDs for easy visual system status
- 8 individual zone LEDs
- STAY, AWAY, and NO DELAY LEDS show system status
- *Enter Code* LED flashes to let user know when to enter their access code
- Quick Guide slides out of touchpad to provide basic system instructions

Specifications

- 12 VDC nominal (8 - 14 VDC), 65 mA (maximum)
- 40 to 100 °F operating temperature
- Maximum Humidity: 70% relative, noncondensing
- Belgian gray
- Wall mounting
- 4.5" wide x 5.0" high x .92" deep

Accessories

60-728
SuperBus LED Touchpad

Description/Features

- Provides complete on-site programming and operational control of the system
- 2 line, 20 character LCD
- Built-in speaker sounds alarm, status sounds, and button-press beeps
- Panic buttons for police, fire, and auxiliary emergencies
- Quick Guide slides out of touchpad to provide basic system instructions

60-804-04:

- 2 line, 20 character VFD

Specifications

- 12 VDC nominal (8 - 15.4 VDC), 115 mA (maximum)
- 40 to 100 °F operating temperature
- Maximum Humidity: 70% relative, noncondensing
- Belgian Grey
- 8.44" wide x 5.0" high x 1.25" deep.

60-804-04:

- 12 VDC nominal (8 - 15.4 VDC), 90 mA (maximum)

Accessories

60-803-04
SuperBus 2000 2-line 2x20 LCD Touchpad

60-804-04
SuperBus 2000 2-line 2x20 VFD Touchpad

Wireless Touchpads

Description/Features	Specifications	Accessories

60-694-95R
5-Button SAW Keychain Touchpad

60-659-95R
4-Button SAW Keychain Touchpad

- Recessed buttons help prevent false alarms
- LED confirms RF transmissions

60-694-95R:

- Single button panic control
- Provides convenient operational control of the system
- Recessed buttons help prevent false alarms
- Green LED confirms button presses
- Light control capability (60-606-319.5 only)1

- 12 VDC, 33 mAh alkaline battery included
- 5-8 year battery life
- 10 to 120 °F operating temperature
- Black
- Keychain mounting (keychain ring included)
- 1.4" wide x 2.25" high x 0.38" deep

60-711 12V 33 mAh Alkaline Battery

60-606-319.5
4-Button Keychain Touchpad

60-607-319.5
2-Button Keychain Touchpad

- Provides convenient operational control of the system
- Recessed buttons help prevent false alarms
- Green LED confirms button presses
- Light control capability (60-606-319.5 only)

- 12 VDC, 33 mAh alkaline battery included
- 5-8 year battery life
- 10 to 120 °F operating temperature
- Black
- Keychain mounting (keychain ring included)
- 1.4" wide x 2.25" high x 0.38" deep

34-034 12V 33 mAh Alkaline Battery
466-1050 4-Button Keychain Touchpad Specification Sheet 50/pk
466-1072 2-Button Keychain Touchpad Specification Sheet 50/pk

60-597-95
HiTech Hand Held Wireless Touchpad

- Provides portable operational control of the system
- Includes police, fire, and auxiliary panic buttons
- Light control capability
- Status report control
- Bypass capability
- Optional supervision reporting
- Can be wall mounted
- Quick arm
- Red/Green key press indicator light
- Convenient size and attractive styling

- 3 VDC LMN02 2/3 A button top battery (included)
- 5-8 year battery life
- Supervisory report every 64 minutes
- 10 to 120 °F operating temperature
- Belgian gray
- Portable or wall mounting (bracket included)
- 2.1" wide x 6.1" high x .86" deep

60-733 3 VDC LMN02 2/3 A Button Top Battery
444-1252 HiTech Hand Held Wireless Touchpad Mounting Bracket

60-348-10-95
Hand Held Wireless Touchpad

- Provides portable operational control of the system
- Includes police panic button
- Light control capability
- Status report control
- Bypass capability
- Optional supervision reporting
- Can be wall mounted
- Quick arm

- 3.5 VDC ½ AA lithium battery (included)
- 5-8 year battery life
- Supervisory report every 64 minutes
- 10 to 120 °F operating temperature
- Belgian gray
- Portable or wall mounting (bracket included)
- 2.56" wide x 2" high x .94" deep

34-026 3.5 VDC 1/2 AA Lithium Battery

Wireless Interior Sirens

60-736-95
Supervised Wireless Interior Siren (SWIS)

Description/Features

- Produces low volume status beeps and full volume alarm sounds without any wiring
- Plugs into any 120 VAC wall outlet
- Receives signals from the control panel over AC power lines
- 3 status sound settings
- Low-battery warning
- Status sounds can be turned off
- U.L. approved
- Rechargeable backup battery included

Specifications

- 85 dB siren output at 10 feet
- 120V AC powered
- 3.6 VDC NiCd battery pack included
- Belgian Grey
- 4.3" wide x 3.4" high x 1.5" deep

Accessories

Hardwire Sirens

60-278
Hardwire Interior Siren and Piezo

- Produces both low volume status sounds and high volume siren sounds with voice alarm messages, using PIU
- Includes a speaker and piezo
- Interior voice speaker annunciates all voice messages and alarms
- Piezo activates for status and alarm sounds
- Good for areas where system status and siren sounds need to be heard

- 20W speaker output
- 12 VDC @ 5 mA max current draw
- 6-12 VDC @ 120 mA operating voltage
- 10 to 120 °F operating temperature
- Belgian gray
- Recessed or surface mounting
- 6 11/16" wide x 4 3/4" high x 2 3/8" deep

13-374
LD 105 Hardwire Interior Piezo Siren

- Produces low volume status beeps and full volume alarm sounds
- Small size with maximum output of 85 dB

- 85 dB max siren output
- 12 VDC @ 150 mA max current draw
- 4.5-15 VDC @ 75 mA operating voltage
- 42 to 95 °F operating temperature
- Belgian gray
- Wall mounting
- 2.8" wide x 4.8" high x 1.25" deep

60-483-01
Interior Slim Line Piezo Siren

- Produces low volume status beeps and full volume alarm sounds
- Small size provides clean installations
- 85 dB alarm siren output
- Separate piezo annunciator for low volume status beeps and alarm sounds

- 85 dB max siren output
- 12 VDC @ 30 mA max current draw
- 6-12 VDC @ 60 mA operating voltage
- 10 to 120 °F operating temperature
- Belgian gray
- Recessed mounting
- 2.5" wide x 6" high x 1.25" deep

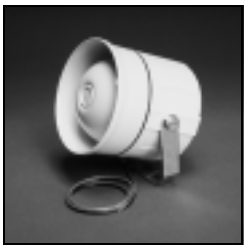
60-683
Phone Jack Siren

- Produces low volume status beeps and full volume alarm sounds without running any wires
- Uses existing phone line wiring
- Replaces an existing phone jack and provides a jack for a phone
- Can be used with any wireless or hardwire system supplying 6-12 VDC
- Status sounds can be turned off

- 85 dB max siren output
- 30 mA max current draw
- 6-12 VDC @ 60 mA operating voltage
- 10 to 120 °F operating temperature
- Belgian gray
- Wall mounting with back box or flush mounting with a single gang box
- 2.88" wide x 6" high x 1.83" deep

Hardwire Sirens– Continued

Description/Features	Specifications	Accessories



13-046
Hardwire Exterior Piezo Siren

- Produces full volume alarm sounds for large indoor and outdoor areas
- Weatherproof housing
- 115 dB alarm siren output
- Only 145 mA max current draw

- 115 dB max siren output
- 12 VDC @ 145 mA max current draw
- 6-12 VDC @ 98 mA operating voltage
- 22-gauge stranded wire
- 10 to 120 °F operating temperature
- White
- Wall mounting
- 3.56" diameter x 3.25" deep

Hardwire Speakers

13-453
Surface Mount Interior Speaker

- Produces both low volume status sounds and high volume siren sounds with voice alarm messages, using phone interface and voice module
- Interior voice speaker annunciates all voice messages and alarms
- Good for areas where system status and siren sounds need to be heard

- 15 W RMS
- 20 W peak
- 8 ohm
- Not investigated by UL
- Surface mounting

13-454
Recessed Mount Interior Speaker

- Produces both low volume status sounds and high volume siren sounds with voice alarm messages, using phone interface and voice module
- Interior voice speaker annunciates all voice messages and alarms
- Good for areas where system status and siren sounds need to be heard.

- 15 W RMS
- 20 W peak
- 8 ohm
- Not investigated by UL
- Recessed mounting

60-252
Interior Speaker and Piezo

- Produces both low volume status sounds and high volume siren sounds with voice alarm messages, using phone interface and voice module
- Includes a speaker and piezo
- Interior voice speaker annunciates all voice messages and alarms
- Good for areas where system status and siren sounds need to be heard

- 20 W speaker output
- 12 VDC @ 5 mA max current draw
- 6-12 VDC @ 120 mA operating voltage
- 10 to 120 °F operating temperature
- Belgian gray
- Recessed or surface mounting
- 6 11/16" wide x 4 3/4" high x 2 3/8" deep

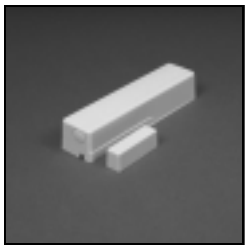
13-060
RMS Exterior Horn, 15 Watt Speaker

- Produces alarm and status voice messages or alarm messages only
- Good for large indoor and outdoor areas where voice feedback is needed
- Status and alarm messages
- UL approved, 85 dBA

- 22-gauge stranded wire
- 10 to 120 °F operating temperature
- White
- Wall mounting

13-060:
- 15 W, 8 Ohm speaker output
- 5 1/8" diameter x 5 7/8" deep

13-061:
- 30 W, 8 Ohm speaker output
- 8" diameter x 9 1/8" deep

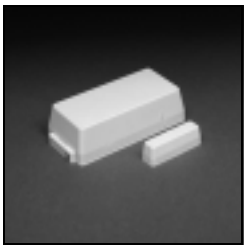
SAW Sensors	Description/Features	Specifications	Accessories
 60-670-95R Belgian Gray Door/Window Sensor 60-670-11-95R Brown Door/Window Sensor	■ Protects anything that opens and closes, such as doors, windows, jewelry cases, and gun cabinets ■ For low and average traffic areas ■ Terminal block for hardwire contacts can be added to the built-in terminal post	■ Two 1.5 VDC AAA alkaline batteries ■ 4-6 year battery life ■ 1 internal reed switch ■ 1 built-in terminal post ■ 10 to 120 °F operating temperature ■ Supervisory report every 64 minutes ■ Belgian gray ■ Flat surface mounting ■ 1.13" wide x 4.25" high x .88" deep	**60-710** 1.5 VDC AAA Alkaline Battery 6/pk **60-714** SAW Door/Window Sensor Terminal Block 10/pk 60-715 Belgian Gray Door/Window Sensor Spacer 25/pk 60-715-11 Brown Door/Window Sensor Spacer 25/pk **60-716** Belgian Gray Door/Window Sensor **60-716-11** Brown Door/Window Sensor Magnet Spacer 20/pk
 60-639-95R Indoor PIR Motion Sensor 60-807-95R Indoor PIR Pet Immune Motion Sensor	■ Passive infrared detection ■ Detects movement inside an enclosed structure ■ Use in large rooms, narrow corridors, and stairwells ■ 3-minute motion lockout to conserve battery life ■ Two sensitivity settings ■ Small and unobtrusive 60-639-95R: ■ Provides the best overall human detection ■ Optional Animal Alley Lens ■ Mounting kit included to adjust coverage pattern 60-807-95R: ■ Pet Immunity up to 40 pounds ■ Excellent vertical vs. horizontal pattern recognition	■ Two 1.5 VDC AA alkaline batteries ■ 3-4 year battery life ■ 32 to 120 °F operating temperature ■ Tamper switch ■ Supervisory report every 64 minutes ■ Belgian gray ■ Wall mounting ■ 2.5" wide x 3" high x 2" deep 60-807-95R: ■ Use with pets up to 40 pounds	**60-600** 1.5 VDC AA alkaline battery 60-639-95R: **13-381** Fresnel Animal Alley Lens **60-737** Swivel mount
 60-639-95R-OD Outdoor PIR Motion Sensor	■ Use for chime notification of movement outside the premises or to turn on an exterior light upon approach* ■ Use in driveways, walkways, etc. ■ Passive infrared detection ■ 3-minute motion lockout to conserve battery life * This sensor is not intended for intrusion detection. Do not use this sensor in a police, panic, or fire sensor group.	■ Two 1.5 VDC AA alkaline batteries ■ 3-4 year battery life ■ 10 to 120 °F operating temperature ■ Tamper switch ■ Supervisory report every 64 minutes ■ Belgian gray ■ Wall mounting ■ 3" wide x 3" high x 3" deep (+1.25" with mounting bracket)	**60-600** 1.5 VDC AA Alkaline Battery
 60-744-95R Water Sensor	■ Detects water leaks in home or business ■ Uses two parts: a detector wired to the transmitter	■ Two 1.5 VDC AAA alkaline batteries ■ 3-5 year battery life ■ 10 to 120 °F operating temperature ■ Belgian gray ■ Flat surface mounting ■ Detector: 0.94" wide x 1.80" high x 0.50" deep ■ 1.13" wide x 4.25" high x 0.94" deep	**60-710** 1.5 VDC AAA Alkaline Battery

Crystal Intrusion Sensors

Description/Features

Specifications

Accessories



60-362-10-319.5
Belgian Gray Door/Window Sensor

60-362-11-319.5
Brown Door/Window Sensor

- Protects anything that opens and closes, such as doors, windows, jewelry cases, and gun cabinets
- Installs on anything that opens or closes
- For low and average traffic areas
- Built-in terminal strip for connecting hardwire contacts
- 2 internal reed switches allow for vertical or horizontal mounting

- 3.5 VDC ½ AA lithium battery
- 5-8 year battery life
- 2 internal reed switches
- 1.56" wide x 3.25" high x .88" deep
- 10 to 120 °F operating temperature
- Tamper switch
- Supervisory report every 64 minutes
- Belgian gray or brown
- Flat surface mounting

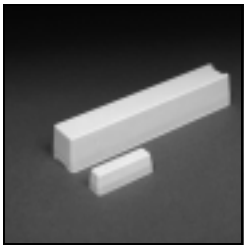
34-026 3.5 VDC ½ AA Lithium Battery
60-189 Belgian Gray Sensor Spacers 20/pk
60-191 Brown Sensor Spacers 20/pk
60-188 Belgian Gray Magnet Spacers 25/pk
60-190 Brown Magnet Spacers 25/pk
60-260, 261 Sensor Cases 5/pk
60-555-10, 11 Magnets (includes plastic) 10/pk
466-1045 Door/Window Sensor Specification Sheet 50/pk

60-741-95
Micro Recessed Belgian Gray Door/Window Sensor

60-741-11-95
Micro Recessed Brown D/W Sensor

- Protects doors and windows where the sensor should be concealed
- Sensors are completely concealed when installed
- Lithium battery

- 3.5 VDC ½ AA lithium battery
- 12-16 year battery life
- Recessed mount in 5/8" hole
- Magnet can be mounted using 5/8" sleeve, or 1/2" hole
- Supervisory report every 64 minutes
- 10 to 120 °F operating temperature



60-499-10-319.5
Slim Line Belgian Gray Door/Window Sensor

60-499-11-319.5
Slim Line Brown D/W Sensor

- Protects anything that opens and closes where the sensor mounting area is limited, such as narrow casements and window frames
- Slim design fits on most windows.

- 3.5 VDC ½ AA lithium battery (send to ITI to replace)
- 5-8 year battery life
- 10 to 120 °F operating temperature
- Tamper switch
- Supervisory report every 64 minutes
- Belgian gray or brown
- Flat surface mounting
- .31" wide x 4.94" high x .88" deep

- **80-089-10** Belgian Gray Sensor Case 5/pk
- **80-089-11** Brown Sensor Case 5/pk

60-511-01-95
DS924i PIR Motion Sensor

60-511-02-95
DS924i Pet Immune PIR Motion Sensor

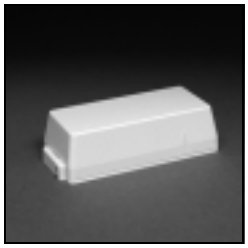
- Detects movement inside an enclosed structure
- Use in large rooms, narrow corridors, and stairwells
- Passive infrared detection
- 3 sensitivity settings
- Includes masking kit to adjust coverage pattern
- 3-minute motion lockout to conserve battery life
- Optional lenses to suit various installation needs

60-511-02-95:
- Adds pet immunity up to 40 pounds

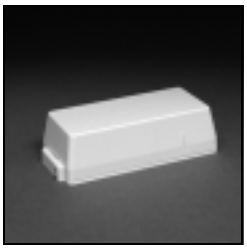
- 3.5 VDC ½ AA lithium battery
- 3-5 year battery life
- Standard 70° lens coverage is 35' x 40'
- 10 to 120 °F operating temperature
- Tamper switch
- Supervisory report every 64 minutes
- Belgian gray
- Wall mounting
- 2.75" wide x 4.38" high x 1.75" deep

34-026 3.5 VDC ½ AA Lithium Battery
13-286 DS924 70' Long Range Lens 3/pk
13-287 DS924 78° x 35' Pet Lens 3/pk
13-288 DS924 110° x 35' Wide Angle Lens 3/pk
13-318 DS924 35' Barrier Lens 3/pk
13-319 DS924 85° x 70' Dual Corridor Lens 3/pk
13-320 DS924 10° x 70' Long Range Pet Lens 3/pk
13-359 DS924 Mounting Bracket
466-1145 DS924i PIR Specification Sheet 50/pk

Crystal Intrusion Sensors—Continued

	Description/Features	Specifications	Accessories
 60-703-95 ITI Crystal PIR Motion Sensor	■ Detects movement inside an enclosed structure ■ Use in large rooms, narrow corridors, and stairwells ■ Passive infrared detection ■ 3-minute motion lockout to conserve battery life ■ Optional pet lens ■ Two sensitivity settings ■ Mounting kit included to adjust coverage pattern ■ Small and unobtrusive	■ Two 1.5 VDC AA alkaline batteries ■ 3-4 year battery life ■ 10 to 120 °F operating temperature ■ Tamper switch ■ Supervisory report every 64 minutes ■ Belgian gray ■ Wall mounting ■ 2.5" wide x 3" high x 2" deep	**60-600** 1.5 VDC AA Alkaline Battery **13-381** Fresnel Animal Alley Lens
 60-459-319.5 Sound Sensor	■ Responds to frequencies generated by breaking glass ■ Installs in rooms with many windows or a large picture window ■ Detection coverage of 360° up to 15' away ■ Detects sound of breaking glass (including tempered glass) .06" - .25" thick ■ Sensitivity preset by manufacturer	■ 3.5 VDC ½ AA lithium battery ■ 5-8 year battery life ■ Audio microphone ■ 10 to 120 °F operating temperature ■ Supervisory report every 64 minutes ■ Belgian gray ■ Wall or ceiling mounting ■ 4.38" diameter x 2" deep	**34-026** 3.5 VDC ½ AA Lithium Battery **13-332** IntelliSense Sound Sensor Tester
 60-834 FlexGuard® Dual Disturbance Sound Sensor	■ Responds to frequencies generated by breaking glass ■ Installs in rooms with many windows or a large picture window ■ Detection coverage up to 25' away in any direction ■ Includes a flex and audio microphone ■ Adjustable flex sensitivity ■ Test LEDs for flex sensitivity and audio range settings ■ Uses two 3.5 VDC AA batteries or one 9 VDC battery ■ Replaces the Intellisense Sound Sensor (part number 60-582-10-319.5)	■ Two 3.5 VDC AA lithium batteries (included) or one 9 VDC alkaline or lithium battery ■ 5-8 year battery life ■ 10 to 120 °F operating temperature ■ Tamper switch ■ Supervisory report every 64 minutes ■ Belgian gray ■ Wall or ceiling mounting ■ 4.13" wide x 4.75" high x 1.25" deep	**34-002** 9 VDC Eveready® Energizer® Alkaline Battery - UL listed **34-011** 9 VDC, 550 mAh, Duracell® Alkaline Battery - UL listed **34-037** 9 VDC, 1.2 Ah, UltraLife® Lithium Battery - UL listed **60-619** 3.5 VDC AA Lithium Battery 6/pk **13-332** IntelliSense Sound Sensor Tester
 60-461-10-319.5 Belgian Gray Shock Sensor 60-461-10-319.5 Brown Shock Sensor	■ Installs on windows to detect openings/closings and breaking glass or splintering wood ■ Detects breaking glass or splintering wood up to 5' away ■ Shock detector can be mounted inside or outside sensor case ■ 2 built-in reed switches allow for vertical or horizontal mounting to detect window openings/closings ■ Adjustable sensitivity	■ 3.5 VDC ½ AA lithium battery ■ 5-8 year battery life ■ 10 to 120 °F operating temperature ■ Tamper switch ■ Supervisory report every 64 minutes ■ Belgian gray or brown ■ Window frame mounting ■ 1.56" wide x 4.88" high x .94" deep	**34-026** 3.5 VDC ½ AA Lithium Battery **60-267** Belgian Gray Sensor Case 5/pk **80-006-10, 11** Belgian Gray, Brown Sensor Spacer 20/pk **13-005, 011** Belgian Gray, Brown Surface Mount Litton® Shock Detector SP3237 **60-268** Brown Sensor Case 5/pk **13-214** Litton Shock Detector (fits inside case) **13-215** Belgian Gray Litton Recessed Mount Shock Detector

Crystal Intrusion Sensors—Continued

	Description/Features	Specifications	Accessories
 60-462-10-319.5 Belgian Gray Glass Break Sensor 60-462-11-319.5 Brown Glass Break Sensor	■ Mounts directly onto glass in doors and windows, gun cabinets, etc., to detect breaking glass ■ 5' sensitivity radius ■ Adheres to glass being protected ■ Can be mounted anywhere on glass, at least 1" from glass frame ■ Built-in terminal strip for connecting hardwire contacts	■ 3.5 VDC 1/2 AA lithium battery ■ 5-8 year battery life ■ 10 to 120 °F operating temperature ■ Tamper switch ■ Supervisory report every 64 minutes ■ Belgian gray or brown ■ Glass mounting with adhesive pads (included) ■ 1.5" wide x 3.25" high x .88" deep	**34-026** 3.5 VDC ½ AA Lithium Battery **13-067** Glass Guard Adhesive Pad 50/pk
 60-615-10-319.5 Quik Bridge™ Learn Mode Repeater	■ Receives and retransmits signals from Learn Mode sensors, touchpads, and other Repeaters to increase the distance a sensor can be mounted from the control panel ■ Ideal for large installations where: - distant sensors perform poorly on the sensor test; - distant sensors cause supervisory problems; or - control panel antennas are shielded by metal ■ Dual-antenna receiver for improved sensor data reception ■ 24-hour backup battery option ■ On board backup battery charging circuit ■ Low backup battery report option ■ AC power failure option ■ Supervisory reports every 64 minutes ■ Tamper switch	■ 600' typical open-air range ■ Main power supplied by: ■ 15-16.5 VAC, 2 VA transformer (required if backup battery is used), or ■ 9-16.5 VAC, 2 VA transformer, or ■ 12 VDC power supply ■ 50 mA max current draw ■ 24-hour backup with 12 VDC, 1.3 Ah lead-acid battery ■ 319.5 MHz radio receiver and sensor ■ Crystal-controlled superheterodyne radio receiver ■ 40 to 120 °F operating temperature ■ Tamper switch ■ AC power failure report ■ Supervisory report every 64 minutes ■ Belgian gray ■ ABS Plastic ■ Flat surface mounting ■ 4.125" wide x 5.25" high (+8.75" with antennas) x 1" deep ■ 5.1 oz.	Note: A weatherproof case is available from Rose Enclosures (301-696-9800). Order part number 09122008-00.

Crystal Fire and Smoke Sensors

	Description/Features	Specifications	Accessories
 60-506-319.5 System Sensor™ Smoke Sensor 2100 RF 60-645-95 System Sensor™ Smoke Sensor 2300 RF	■ Produces an alarm and sends an alarm signal to the control panel when smoke is detected ■ Use in bedrooms, hallways, stairwells, etc. ■ Most suitable for detecting slow smoldering fires ■ Photoelectric smoke detector ■ Built-in siren ■ Built-in low battery annunciator 60-645: ■ Low battery signal sent to control panel 7 days prior to low battery chirp ■ Notifies user when sensor needs to be cleaned ■ Installer-serviceable chamber cleaning	■ 32 to 100 °F operating temperature ■ Tamper switch ■ Supervisory report every 64 minutes ■ White ■ Wall or ceiling mounting ■ 5.5" diameter x 2.5" deep 60-506: ■ Two 9 VDC alkaline or lithium batteries ■ 1 year alkaline battery life ■ 2 year lithium battery life 60-645: ■ Two 3V 2/3 A lithium batteries ■ 5 year battery life	**34-002** 9 VDC Eveready Energizer Alkaline Battery - UL listed **34-011** 9 VDC, 550 mAh, Duracell Alkaline Battery - UL listed **34-037** 9 VDC, 1.2 Ah, UltraLife Lithium Battery - UL listed **34-030** 3 VDC 2/3 A Lithium Battery
 60-460-319.5 Rate-of-Rise Heat Sensor 60-460-319.5-LB Rate-of-Rise Heat Sensor w/Lithium Battery	■ Responds to high temperatures or rapid temperature changes ■ Use in kitchens, bathrooms, garages, etc. ■ Provides detection in spaces up to 2,500 sq. ft. ■ Activates when temperature increases 15 °F/minute or greater ■ Fixed temperature sensor activates at 135 °F	■ One 9 VDC alkaline or lithium battery ■ 1 year alkaline battery life ■ 2 year lithium battery life ■ 40 to 100 °F operating temperature ■ Tamper switch ■ Supervisory report every 64 minutes ■ Belgian gray ■ Wall or ceiling mounting ■ 4.5" diameter x 2.25" deep	**34-002** 9 VDC Eveready Energizer Alkaline Battery - UL listed **34-011** 9 VDC, 550 mAh, Duracell Alkaline Battery - UL listed **34-037** 9 VDC, 1.2 Ah, UltraLife Lithium Battery - UL listed
 60-589-319.5 Fire Pull Station Sensor	■ Allows a person to activate a fire alarm in the event of a fire ■ Use in residential or commercial sites ■ Manually activated ■ Built-in transmitter ■ Clear shield protects activation switch ■ Easily resets with key	■ 3.5 VDC ½ AA lithium battery ■ 5-8 year battery life ■ Manually activated ■ Reset with key (included) ■ 40 to 100 °F operating temperature ■ Supervisory report every 64 minutes ■ Red case ■ Wall mounting ■ 3.38" wide x 3.38" high x 1.88" deep	**34-026** 3.5 VDC ½ AA Lithium Battery

Crystal Environmental Sensors

Description/Features

Specifications

Accessories

60-504-10-319.5
Freeze Sensor

- Detects furnace failure in residential or commercial sites by detecting when the air temperature falls below 45 °F
- Use in climates where temperatures can drop below 32 °F
- Monitors the temperature in an open area up to 900 sq. ft.
- Sends alarm signal to control panel when air temperature falls below 45 °F
- Sends restore signal to control panel when temperature increases to 55 to 60 °F

- 3.5 VDC ½ AA lithium battery
- 5-8 year battery life
- 10 to 120 °F operating temperature
- Tamper switch
- Supervisory report every 64 minutes
- Belgian gray
- Flat surface mounting
- 1.56" wide x 4.88" high x .94" deep

34-026 3.5 VDC ½ AA Lithium Battery
80-006-10 Belgian Gray Sensor Spacer 20/pk
80-006-11 Brown Sensor Spacer 20/pk

60-652-95
Carbon Monoxide Sensor

- Detects hazardous levels of carbon monoxide gas
- Internal siren sounds and red light comes on when dangerous levels of gas are present
- Transmits alarm signal to control panel when dangerous levels of gas are present
- Sensor adjusts response time to carbon monoxide levels present
- Green light indicates detector is functioning properly
- Plugs into standard outlet

Note:
Gases NOT detected: methane, butane, heptane, ethyl alcohol, isopropyl alcohol, carbon dioxide, and propane.

- 110 VAC @ 60 Hz, 7W power requirement
- 102-132 VAC operating voltage
- 2.5W average standby power
- 3.5 VDC ½ AA lithium battery for transmitter
- 5-8 year sensor battery life
- 85 dB @ 10' for 4 minutes minimum internal siren output
- Time and CO PPM present for alarm to sound:
  <15 minutes @ 400 PPM
  <35 minutes @ 200 PPM
  <90 minutes @ 100 PPM
- 40 to 100 °F operating temperature
- Supervisory report every 64 minutes
- White case, green label
- 110 VAC grounded non-switched outlet mounting
- 6.5" wide x 3.5" high x 2.25" deep

34-026 3.5 VDC ½ AA Lithium Battery

X-10 Lighting and Appliance Control

Description/Features	Specifications	Accessories

13-079
X-10 Appliance Module

- 15 Amps, 1500W
- Communicates through existing AC wiring; no additional wiring needed
- Controls appliances such as fans, dehumidifiers, and stereos, using Concord scheduling capabilities
- Not for use with Concord Express

- 500W appliances
- 120 VAC @ 60 Hz power requirement

13-204
X-10 Powerhouse Series Lamp Module

13-403
X-10 Pro Series Lamp Module

- Provides system and user control of lamps (up to 300W)
- Communicates through existing AC wiring; no additional wiring needed
- Turns lights on during a fire or auxiliary alarm
- Blinks lights during police alarm
- Blinks lights to indicate arming level
- Turns lights on for 5 minutes when system is armed/disarmed

13-403:
- Automatic gain control—more reliable.

- For use with 300W max incandescent lights only
- 120 VAC @ 60 Hz power requirement
- White
- 2.25" wide x 2.75" high x 1.25" deep

13-399
Universal Relay Module

- Activates a relay for devices such as garage door openers, sprinklers, and curtains with a 4-Button Keychain Touchpad
- Built-in low volume siren
- Open/close command can be set for momentary or continuous open/close

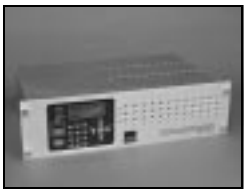
- 120 VAC @ 60 Hz power requirement
- Provides isolated relay contacts to control devices rated up to 5A @ 24 VDC (100 VA @ 30 VAC)
- Rated for devices up to 30 VDC
- White
- 2.25" wide x 3.5" high x 1.75" deep

13-397
2-Way Wall Switch Module

- Automates indoor or outdoor lights, including: porch, patio, hallway, and stairway lights.

- 500W appliances
- 120 VAC @ 60 Hz power requirement

Central Station Monitoring



60-766
CS-5000 Central Station Receiver

Description/Features

- Provides control panel monitoring
- Monitors all ITI systems
- Monitors most communications formats
- Provides ITI and SIA (Security Industry Association) standard format
- Communication outputs for computer automation applications
- Built-in CRT
- 4 telephone line connections
- 3 RS-232 outputs
- Backup batteries

Specifications

- 110 VAC @ 60 Hz or 220 VAC @ 50 Hz operating voltage
- 12 VDC, 6.5 Ah lead acid backup battery (not included)
- Chassis: Rack mountable, anodized aluminum desktop chassis; "tool-less" front panel access to all changeable cards; holds up to 12 line cards
- 19" wide, 5.75" high, 11.5" deep
- Continuous call throughput from 12 line cards simultaneously receiving SIA DCS events at 300 baud
- Automatic line card interpretations of Modem, FSK/BFSK, Tone Burst, and DTMF formats
- 500 call minimum call history memory.
- Built-in test and diagnostics
- Includes one line card

Accessories

13-352 Okidata® Printer
13-227 Proxima® Surge Suppressor
13-248 12V, 6.5 Ah Backup Battery
60-417 Phone Line and Power Fault Annunciator Module
46-056 Installation and Operator's Guide
46-081 CS-5000 Full Color Brochure

Remote Programming Software

60-675-WIN
ITI ToolBox 4.3 for Windows

- Software application that allows control panels to be programmed from a PC
- Uploads control panel information for new accounts
- Downloads control panel information for new installations
- Updates existing control panel programming
- Easy, menu-driven interface
- On-line help
- Stores database of control panel accounts on a PC hard disk
- Y2K Compliant

- Package includes:
- Up to two 3.5" high density disks
- User's Guide
- On-line help
- Minimum system required:
- Windows 3.1 or later
- 386/25 MHz IBM® or compatible PC
- Hayes™ or compatible modem
- 8 MB free hard disk space

60-719 ToolBox Modem Kit

Hardwire Intrusion Contacts	Description/Features
13-430 Surface Mount 2” Gap, White 13-431 Surface Mount 2” Gap, Brown	■ Tane Model Number: SW-35WG ■ 2-inch gap ■ 10/pk ■ Surface mount
13-432 Surface Mount 1” Gap, White 13-433 Surface Mount 1” Gap, Brown	■ Tane Model Number: SW-32G ■ 1-inch gap ■ 10/pk ■ Surface mount
13-434 Rollerball Switch Contact, White 13-435 Rollerball Switch Contact, Brown	■ Tane Model Number: RG-32 ■ ¾-inch gap ■ 10/pk
13-428 Mini Surface Contact w/Terminal and Adhesive Strip, White 13-429 Mini Surface Contact w/Terminal and Adhesive Strip, Brown	■ Tane Model Number: FM-106 ■ 1-inch gap minimum ■ 10/pk
13-436 Magnetic Recessed Contact, White 13-437 Rollerball Recessed Contact, Brown	■ Tane Model Number: STB-10 ■ .7-inch gap minimum ■ 10/pk

Hardwire Miscellaneous Detectors	Description/Features	Specifications	Accessories
13-438 Overhead Garage Door Switch	■ Tane Model Number: Met-44 ■ Quantity of 1		
13-075 Call Switch N/O 8-ft. Reed Switch			
13-076 Double Holdup Button N/O Reed Switch, White			
13-066 Sentrol 1005 Mini-Magna Pull N/C Reed Switch 10/pk, White 13-065 Sentrol 1005 Mini-Magna Pull N/C Reed Switch 10/pk, Brown			
 13-062 Sentrol 5150 Glass Break Detector, White 13-063 Sentrol 5150 Glass Break Detector, Brown	■ 10-foot protection on a single pane ■ Easy to use, field proven 3M adhesion ■ Detects all types of glass without adjustment ■ Ideal for 24-hour loop protection		
 13-468 Optex Pet Immune PIR	■ Detects movement inside an enclosed structure ■ Use in large rooms, narrow corridors, and stairwells ■ Passive infrared detection ■ Wide angle coverage (40 x 40 feet). ■ Long range coverage (10 x 67 feet)	■ 9-16 VDC input power ■ 17 mA @ 12 VDC current draw ■ -4 to 120 °F operating temperature	
 13-464 DS-940 Hardwire PIR 13-465 DS-940P Pet Immune Hardwire PIR	■ Detects movement inside an enclosed structure ■ Use in large rooms, narrow corridors, and stairwells ■ Passive infrared detection ■ Optional pet lens ■ Two sensitivity settings ■ Mounting kit included to adjust coverage pattern ■ Small and unobtrusive	■ 9-15 VDC input power ■ 17 mA @ 12 VDC current draw ■ -20 to 122 °F operating temperature ■ Tamper switch ■ Supervisory report every 64 minutes ■ Belgian gray ■ Wall mounting ■ 2.25" wide x 3" high x 1.5" deep	
13-440 DS-835 Tri-Tech PIR/Microwave Motion Detector - Hardware	■ Tri-Tech Model Number: DS835 ■ Microwave motion detector ■ Quantity of 1 ■ Uses microwave passive infrared and built-in artificial intelligence for maximum pattern recognition		

Sales, Print, and Video Materials	Description/Features	Specifications	Accessories
 80-347 Concord Express Demonstration Kit 80-332 Concord Demonstration Kit	■ Provides an effective way to demonstrate Express to business and residential customers.	■ Kit Includes: ■ Operational control panel ■ Fixed English LCD Touchpad ■ (2) 2-button keychain touchpads ■ Hardwire interior siren ■ SAW door/window sensor ■ ITI PIR motion detector housing ■ Water-resistant panic housing ■ Active hardwire contacts configured into the panel 80-332: ■ Operational control panel ■ Alphanumeric touchpad. ■ 2 door/window sensors. ■ Interrogator 200 Audio Verification Module. ■ 4-button keychain touchpad. ■ System Sensor Smoke Sensor. ■ Pendant Panic Sensor. ■ Plastic door/window sensors cases . ■ Black carrying case (19" wide x 14" high)	
 466-1731 Concord Product Line Overview Specification	■ Provides a easy-to-understand overview of the Concord Express, Concord, and Concord Commercial systems. ■ Two color ■ 8.5" high x 11" wide ■ 8 pages ■ 50/pk	■ ■	
466-1593 Concord End-User Brochure	■ Provides an overview of Concord for business and residential customers. ■ Four color ■ Glossy ■ 8.5" high x 11" wide ■ 8 pages ■ 50/pk	■ ■	
 466-1593 Concord End-User Feature/Benefit Sheet 466-1611 Concord Express End-User Feature/Benefit Sheet 466-1641 Concord Commercial End-User Feature/Benefit Sheet	■ Provides an overview of Concord for business and residential customers. ■ Four color ■ Glossy ■ 8.5" high x 11" wide ■ 8 pages ■ 50/pk	■ ■	

Sales, Print, and Video Materials	Description/Features	Specifications	Accessories

466-1504-SAW
SAW Wireless Sensor Brochure
466-1504-CRY
Crystal Wireless Sensor Brochure

- Provides an overview of some wireless SAW sensors available and their applications
- Four color
- Glossy
- 4” wide x 9” high (folded)
- 16 pages
- 25/pk

466-1513
Concord User’s Guide
466-1594
Concord Owners Video
466-1667
Concord Express User’s Guide
466-1743
Concord Express Owners Video

User’s Guides:

- Provides complete operating instructions for the security system.
- 3-hole punched
- 8.5” wide x 11” high
- One included with each panel.

User’s Videos:

- Provides an overview and basic instructions for operating. One video is included with each panel.
- 15 minutes
- Full color

- 8.5” wide x 11” high
- 3-hole drilled
- Black and white

466-1512
Concord Installation Guide
466-1665
Concord Express Installation Guide

- Provides installation, setup, and programming procedures.
- 3-hole punched
- 8.5” wide x 11” high
- Available upon request

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Security
Automation
Fire Protection
Access Control

WIRELESS

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