

# CareTaker *Plus* Control Panel

# CareTaker<sup>®</sup> *Plus* Control Panel

## Optional Accessories (partial list)

<b>2-Button Keychain Touchpad (60-607-319.5)</b>	The Keychain Touchpad allows the system user to conveniently perform basic control panel functions.
<b>Alphanumeric Touchpad (60-248-10-CTP)</b>	The hardwire touchpad is used to program the control panel and arm or disarm the system. It has a 16-character alphanumeric fluorescent display and can be wall-mounted.
<b>Door/Window Sensor (60-362-10-319.5) or (60-362-11-319.5)</b>	The Door/Window Sensor detects when the monitored door, window, or protected area opens or closes (available in white or brown).
<b>DS924 PIR Motion Detector (60-511-319.5)</b>	The PIR detects movement on the premises by sensing changes in heat patterns.
<b>Energy Saver Module (ESM) (60-438)</b>	The ESM controls the operation of temperature controlling devices wired in series with the module. The FEM is also required to operate the ESM.
<b>Feature Expansion Module (FEM) (60-436)</b>	The FEM automatically resets devices that require a reset after an alarm, like a hardwire smoke detector. It also contains a voice siren driver that can power an 8-ohm speaker with loud-volume voice alarm messages and loud siren tones. The FEM is required to operate the Energy Saver Module.
<b>Freeze Sensor (60-504-10-319.5)</b>	The Freeze Sensor detects when the temperature on the premises drops to about 45°F (7°C), then sends an alarm signal to the control panel.
<b>Hardwire Exterior Siren (HES) (13-046)</b>	The HES provides alarm sounds for fire alarm (steady), burglar alarm (intermittent), and auxiliary and medical alarms (fast intermittent).
<b>Hardwire Input Module (HIM) (60-242)</b>	The HIM is used to add hardwire zones to the panel. Each HIM accepts 8 hardwire zones (up to four HIMs, equaling 32 hardwire zones per panel).
<b>Interrogator Alarm Verification Module (60-471)</b>	The Interrogator Module allows the central station operator to “listen in” and/or “talk back” to the user after an alarm has occurred. This device is especially useful to determine whether or not an alarm report was due to an actual alarm condition. The Interrogator Module can use up to three microphones and two speakers.
<b>Line Carrier Transformer (60-346-500)</b>	The Line Carrier Transformer allows the panel to communicate with line carrier devices such as X-10 Lamp Modules and Wireless Interior Sirens.
<b>Rate-of-Rise Heat Sensor (60-460-319.5)</b>	The Rate-of-Rise Heat Sensor detects the rate the temperature rises and sends an alarm signal if the temperature rises by 15 F°(8 C°) or more per minute. It also sends an alarm when the temperature reaches about 135°F (57°C).
<b>System Sensor™ Smoke Sensor (60-506-319.5)</b>	The Smoke Sensor detects smoke passing through its photoelectric chamber. The sensor also has an alarm horn and low battery annunciator.
<b>X-10 Lamp Module (13-204)</b>	The Lamp Module is a plug-in device used to turn premises lights on during exit and entry delay and during alarm conditions (requires a Line Carrier Transformer). The user can also turn lights on or off with a touchpad. Some later software versions also feature individual light control.

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### Ordering Information

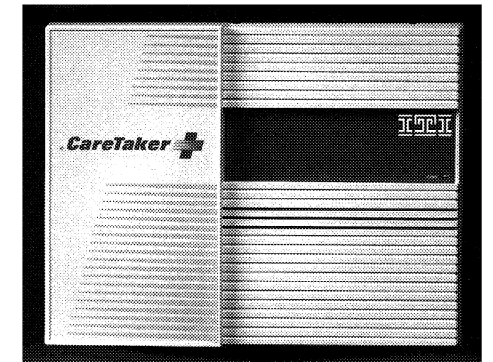
IT I Part #: 60-435-10-95

IT I Document #: 466-1043 (Rev. A)  
(Spec Sheets available in quantities of 50)

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Specifications are subject to change without notice.

Interactive Technologies, Inc.



IT I Part #: 60-435-10-95

File: Panels

## Overview

The CareTaker *Plus* is a full-featured wireless security system designed to protect your home or business from loss due to burglary or fire. Using the finest new technology, the CareTaker *Plus* is quick and efficient to install, as well as convenient and easy to operate.

The control panel of the CareTaker *Plus* system actually talks to the user. This easy-to-follow feedback leads the user and installer through system controls, reducing the possibility of false alarms and increasing user confidence.

The CareTaker *Plus* uses wireless and hardwire sensors that are strategically placed throughout the premises. The panel analyzes sensor reports for alarm conditions. Figure one shows some of the sensors that can be used with the panel. When the panel is used with wireless sensors, the system can be installed in a fraction of the time of an equivalent hardwired system, but without the usual inconvenience and potential for property damage.

The patented IT I Learn Mode technology allows sensors to be set up without programming. Even for new installers this system is truly easy to set up. Plus, the CareTaker *Plus* system offers enormous flexibility. With over 20 types of wireless sensors available, nearly any security application can be handled.

## Applications

### The CareTaker *Plus* is recommended for:

- Residential security and fire protection.
- Commercial security.
- Installations where running wires would be expensive and/or difficult.

## Features

### CareTaker *Plus* features include:

- Wireless and hardwire capabilities in one system.
- 32 sensor zones.
- 6 sensor zones with hardwire compatibility.
- On-and off-site telephone control.
- 2-Button Keychain Touchpad compatibility (requires 3.0 software).
- Light control (requires X-10<sup>®</sup> Lamp Module and Line Carrier Transformer).
- Fail-to-Communicate output.
- Interrogator<sup>™</sup> Alarm Verification Module compatibility.
- On- and off-site control of premises temperature (requires Energy Saver Module and Feature Expansion Module).
- Digitized voice feedback.

# CareTaker *Plus* Control Panel

## Specifications

### Power Supply

<b>Required Transformer</b>	Class II, 9 VAC, 60 Hz (60-515) (or Line Carrier Transformer 60-346-500)
<b>Backup Battery</b>	6 VDC, 4 Ah, rechargeable, sealed, lead-acid
<b>Battery Backup Time</b>	24 hours (fully charged)
<b>Battery Test</b>	15 minutes under load every 24 hours
<b>Panel Fuse</b>	Self-resetting polyfuse

### Radio Receiver

<b>Type</b>	Crystal-controlled superheterodyne with spatial diversity
<b>Frequency</b>	319.5 MHz
<b>Bandwidth</b>	40 kHz
<b>Sensitivity</b>	-112 dBm nominal
<b>Nominal Range</b>	1,000 feet (300 meters) open-air receiving range

### Telephone/Modem

<b>Dialing</b>	DTMF or pulse
<b>Modem</b>	Modified Bell 103 (110 bps), or 4/2 format (20 bps)
<b>Fail-to-Communicate Output</b>	Trips Interrogator Alarm Verification Module and/or neighboring "Buddy" transmitter
<b>Telephone Interface</b>	Line seizure relay

### Inputs/Outputs

<b>Total Input Zones</b>	32
<b>Auxiliary Power Output</b>	Fused 6.8 VDC output at 500 mA (maximum)
<b>Hardwire Bus Devices</b>	Up to 8 devices (requires four-conductor cable)

### Microprocessor

<b>Processor Type</b>	Mitsubishi M37451 (8-bit RISC)
<b>Processor Clock</b>	10 MHz
<b>System ROM</b>	24 kilobytes
<b>System RAM</b>	512 kilobytes
<b>Memory Retention</b>	Unlimited duration (2 kilobytes EEPROM)

### Digitized Voice

<b>Digitization Type</b>	Adaptive Differential Pulse Coded Modulation (ADPCM)
<b>Playback Rate</b>	20,833 bits/second (varies by word)
<b>Vocabulary Size</b>	38 words (approximately 24 seconds)

# CareTaker *Plus* Control Panel

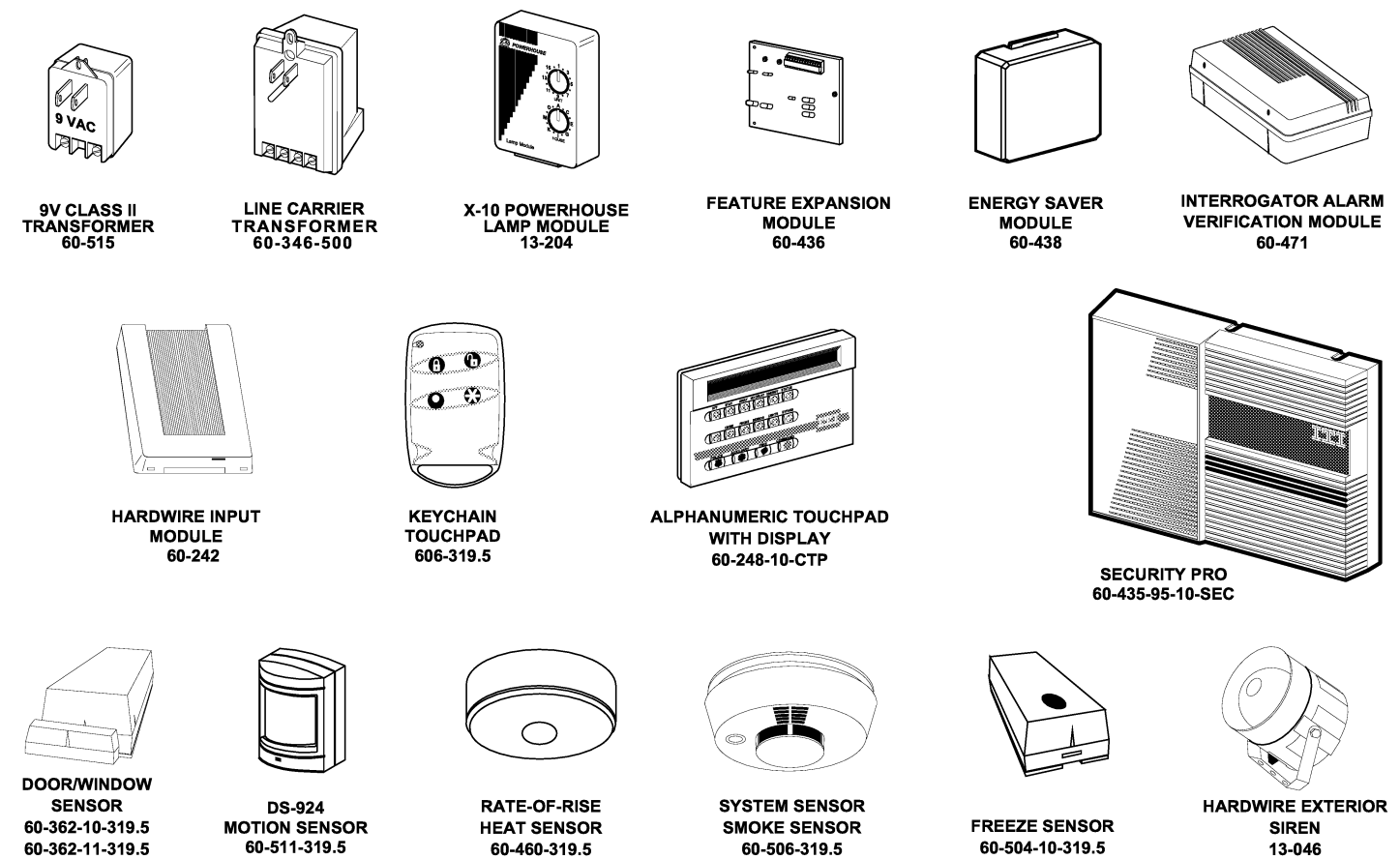
## Environmental

<b>Operating Temperature</b>	40°F (4°C) to 100°F (38°C)
<b>Maximum Humidity</b>	70% relative humidity, non-condensing
<b>Standards</b>	UL 1023, FCC Part 15, FCC Part 68

## Physical Description

<b>Color</b>	Ash White
<b>Dimensions</b>	12.65" (32.1 cm) wide x 10" (25.4 cm) high + two 9" (22.5 cm) antennas x 2.25" (5.7 cm) deep
<b>Weight</b>	5 lb. 6 oz. (2.4 kg)
<b>Installation</b>	Wall mounting
<b>Chassis Material</b>	0.48" (1.2 mm) 18-gauge steel, punched and formed
<b>Housing Material</b>	Polycarbonate ABS Plastic

Figure 1: Sample CareTaker *Plus* Security System with Peripherals\*



\* Contact your ITI Sales Representative for a complete list of sensors and accessories.