File: Panels

Commander 2000 Control Panel

Interactive Technologies, Inc.



ITI Part # 60-437-10-95-8Z or 60-437-10-95-17Z

Overview

The Commander 2000TM is an affordable wireless security system that is easy to install and easy to use. The system is designed for detection and reporting of burglary, fire, and medical emergencies and responds to dozens of sensors for all kinds of residential and commercial applications.

The reliable design of the Commander 2000 helps create a safe environment for system users. The digital voice tells owners whether they have turned their systems on or off properly and whether doors and windows are properly secured. In an emergency, the system can flash house lights on and off, turn on piercing sirens to scare off would-be intruders, and call the central station to send help. Owners can also operate the system with a variety of portable touchpads.

The versatility of this sophisticated system lets owners expand their system as their security needs change. Sensors can be added without disruptive drilling and lengthy installer visits. Magic KeysTM allow installers to rapidly set up identical systems in apartment buildings. The InterrogatorTM Alarm Verification Module is a snap to add on with the optional Tabletop Base.

Applications

The Commander 2000 Control Panel is recommended for

- Small business and residential security and fire protection
- Apartment building security

Features

Commander 2000 features include the following:

- Reliable security at an affordable price
- Wireless and hardwire capabilities that meet a variety of installation conditions
- 2- and 4- Button Keychain Touchpad compatibility for remote control operation (60-607 and 60-606) (requires 4.0 software)
- Interrogator Alarm Verification Module compatibility for live "Listen-In and Talk-Back" dependability (60-471)
- Magic Key compatibility for even easier system installation and operation (60-576 and 60-577)
- Digitized voice feedback that reassures installers and users

Commander 2000 Control Panel

Specifications

Power Supply

Required Transformer 9 VAC Class II (60-515) or Line Carrier Transformer (60-346-500)

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Current Draw 70 mA

Backup Battery Alkaline (6-AA, 60-606) or NiCd (6-AA, 60-601)

Battery Current 50 mA

Battery Life 24-hour backup (alkaline) or 12-hour backup (NiCd)

Battery Test 2 minutes under load every 24 hours

Panel Fuse Self-resetting polyfuse

Radio Receiver

Type Super-heterodyne with spatial diversity

Frequency 319.5 MHz

Nominal Range 700 ft open air

Telephone/Modem

Dialing DTMF and Pulse

Modem Bell 103 or 4/2 format

Fail-to-Communi-

cate Output

Open collector

Baud Rate 110 and 300

Protocol ITI and 4/2 formats

Inputs/Outputs

Auxiliary Power

Output

Polyfuse 285 mA (6.8V to 12V)

RF Zones 8 or 17

Hardwire Zones 1

Siren Outputs Hardwire Interior Siren (HIS) output and Hardwire Exterior Siren (HES) output

(6.8V to 12V)

Microprocessor

Processor Type Motorola 68HC11

Processor Clock

Frequency

12 MHz

System ROM Size 16 kilobytes

System RAM Size 512 bytes

Memory Retention 512 bytes EEPROM

Reset Events Watchdog Timer

Digitized Voice

Digitization Type Adaptive Differential Pulse Coded Modulation (ADPCM)

Playback Rate 8 to 32 kilobits/sec (varies by word)

Vocabulary Size 28 words

Total Speech 24 seconds

Capacity

Environmental

Operating $32 \,^{\circ}\text{F} (0 \,^{\circ}\text{C}) \text{ to } 110 \,^{\circ}\text{F} (43 \,^{\circ}\text{C})$

Temperature

Maximum 85% at 110 °F (43 °C), noncondensing

Humidity

UL Standards UL 985, UL 1023, and UL 1637

FCC Standards Part 15 and Part 68

ULC Standards S309 Burglary and S545 Fire pending

State Standards California Fire Marshal Approval

Physical Description

Color Belgian gray

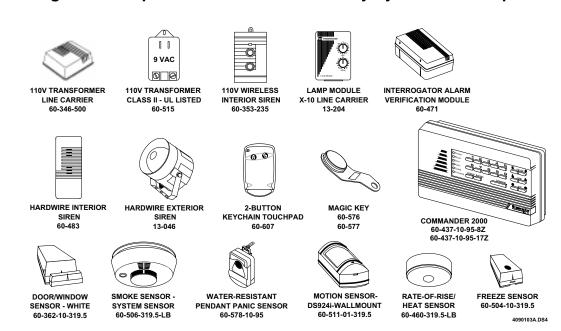
Dimensions 9.63 in (24.45 cm) wide x 6 in (15.24 cm) high x 1.19 in (3.02 cm) deep

Weight 1 lb 9.5 oz (3.5 kg)

Mounting 4 - #8 screws

Housing Material Polycarbonate ABS Plastic

Figure 1: Sample Commander 2000 Security System with Peripheral



Commander 2000 Control Panel

Optional Accessories (Partial List)

2- & 4-Button Keychain Touchpad (60-607, 60-606)The Keychain Touchpad allows the system user to conveniently perform basic control panel functions, including arming and disarming the system, canceling alarms, or activating panic alarms.

Upload/Download The Upload/Download Magic Key allows the installer to quickly configure and store panel information.

Access Magic Key

The Access Magic Key allows the user to set special limited time and/or date access privileges for each key.

Interrogator Alarm Verification Module allows the central station operator to "listen in" and/or "talk back" to the system user at the installation site after an alarm has occurred.

Slim Line Siren (60-483) The Slim Line Siren emits a loud siren noise during an alarm. This siren conveniently fits within the optional Tabletop Mounting Base.

Water-Resistant
Pendant Panic
an alarm by pressing a button.

(60-578-10-95)

System Sensor™
Smoke Sensor

The Smoke Sensor detects smoke passing through its photoelectric chamber.

The sensor also has an alarm horn and low battery annunciator.

(60-506-319.5)

Rate-of-Rise HeatSensor (60-460-319.5)

The Rate-of-Rise Heat Sensor detects the rate at which 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).

Door/Window Sensor The Door/Window Sensor detects when the monitored door, window, or protected area opens or closes.

DS924 PIR Motion The PIR detects movement on the premises by sensing changes in heat patterns.

Line Carrier TransThe Line Carrier Transformer allows the panel to communicate with line carrier **(60-346-500)**The Line Carrier Transformer allows the panel to communicate with line carrier devices such as a Wireless Interior Siren or X-10 Lamp Module.

Wireless Interior Siren

The Wireless Interior Siren is a plug-in device that emits a loud siren noise during an alarm (requires a Line Carrier Transformer).

X-10[®] Lamp Module

The Lamp Module is a plug-in device used to turn premises lights on during exit and entry delay and during alarms (requires a Line Carrier Transformer).

Hardwire Exterior Siren (HES) (13-046) The HES provides alarm sounds for fire alarm (steady), burglar alarm (intermittent), and auxiliary and medical alarms (fast intermittent).

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Specifications are subject to change without notice.

Ordering Information ITI Part # 60-437-10-95-8Z or 60-437-10-95-17Z

ITI Document # 466-1042 (Rev. B)

(Spec Sheets available in quantities of fifty)

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