The Guardian™
A Preview

TCM
Telecontrol Module

The Guardian is the successful result of combining the four basic marketing factors of human needs, technology, value and distribution with the disciplines of telephony, energy control, smoke/fire detection and security detection.

The TCM is the functional BRAIN of The Guardian system. Through its microprocessor common control, it can receive and transmit individual instructions (4,000 in the MCC) to and from the wireless discrete submodules and A.R.M.'s Central Control Center.

The TCM is a scientific advancement in applied system development. It can simultaneously communicate with the central control center, multiple submodules, manage multiple zones of electric control functions, and receive and place local, national and international telephone calls. The innovations contained in the TCM represent a quantum leap forward in "communication management"

TCM Features

Receive and Place Calls
Busy Signal — Auto Redial
Speed Dial — Two Digit Code
(10 Total)
Single Button — OCC Access
DTMF/Touch Tone Capabilities
Liquid Crystal Display
Digital Subcarrier
Appliance/Lighting Control
Programmable Real Time Clock
(On Hook Program)
Radio Frequency (Receive and
Transmit)
"Complex" Digital Word Data
Train
Automatic Intrusion
Identification and Transmit
Automatic Smoke and Fire
Identification and Transmit
Manual Lifeline Identification
and Transmit
Panic Automatic Identification
and Transmit
Ambush Automatic
Identification and Transmit
Automatic Dial Tone Seizure

Multi Transmit of Alarm
Condition to "Central Control
Center"
Microprocessor Control/CMOS
Technology
Digitized Voice
Ring Trip Hang Up
Battery Backup for Power
Outages
System Test Function
Lightning/Transient Arrestor
Complete System Features
Programmable from TCM

IDM
Intrusion Detection Module

A MAJOR TECHNOLOGICAL BREAK THROUGH

The IDM is the first intrusion detection unit to merge two major detection technologies: ultrasonic (motion) and passive infrared (heat). These two technologies are monitored and controlled by A.R.M.'s new scientific microprocessor comparator analyzer.* When the analyzer is alerted by either of the two detectors, it runs an interrogation routine to determine (based upon pre-programmed instructions) if an actual intrusion has occurred.

When an intrusion has been verified by the analyzer, an alarm condition signal is transmitted to the TCM via A.R.M.'s unique integrated radio frequency system.* The "complex" design of the word data train transmitted to the TCM virtually eliminates the possibility of duplication from electromagnetic interference.

Utilization of both ultrasonic and infrared technologies enables the IDM to actively and passively monitor up to 600 square feet, and is specifically designed to virtually eliminate the major problem inherent in existing security systems . . . "false alarms."

IDM Features

Completely Wireless
Passive Infrared Detection
Active Ultrasonic Detection
Microprocessor Comparator
Analyzer
Radio Frequency (Receive and
Transmit)
"Complex" Digital Word Data
Train
"Standby" Radio Frequency
Receiver
Battery Operated (9 Volt)
Low Battery Indication Transmitted
to TCM
Low Battery Indicator at IDM
Programmable Radio Frequency
Transmission Identification
Adjustable Infrared Optics
Walk Test Function

STM
Sonic Transmit Module

The STM is unique in that it incorporates a radio frequency receiver and transmitter. Following a command from the TCM, the STM is activated and produces a piercing 123 decible warbling sound designed as an intrusion deterrent.

STM Features

Completely Wireless
123 Decible Alarm
Radio Frequency (Receive and
Transmit)
"Complex" Digital Word Data
Train
110 AC to DC Conversion
Programmable Automatic Timeout
and Reset Sequence

*Patent applied for

OTM
Optical Transmit Module

The OTM gives The Guardian an added dimension in intrusion deterrence. Upon command from the TCM via the RF link, the OTM is instructed to trigger a one million lumen candle power strobe which pulses at 80 to 120 strobes per minute. Research and actual usage have shown that when the Optical Transmit Module works in conjunction with the Sonic Transmit Module they create an extremely effective intrusion deterrent.

OTM Features
Completely Wireless
1,000,000 Lumen Candle Power
Radio Frequency (Receive and Transmit)
"Complex" Digital Word Data Train
110 AC to DC Conversion
Pulsed Light-Emitting Optics
Adjustable Timeout and Reset

SFDM
Smoke/Fire Detection Module

The SFDM incorporates a unique state-of-the-art photoelectric beam smoke analyzer. Operating in a 24-hour dependent/independent mode, the analyzer allows smoke/fire detection whether the TeleControl Module is in the armed or disarmed position.

The SFDM's photoelectric beam analyzer examines air samples at 5-to-1 second intervals. When the air density increases, the sample interval increases proportionately. When a 1-second interval level occurs, the SFDM automatically sounds an alarm and sends a RF signal to the TCM. The TCM transmits a coded signal to the central control center to dispatch the local fire department.

SFDM Features
Completely Wireless
Photo Electric Beam Smoke Density Analyzer
5-Second Pulse Air Sampler
Battery Operated
Radio Frequency (Receive and Transmit)
"Complex" Digital Word Data Train to TCM
24-Hour Automatic Supervision
Low Battery Indication to TCM
Low Battery Indication to SFDM

The Central Control Center

The installation of a state-of-the-art computer network with nationwide monitoring and response capabilities completed the Company objectives of system integrity and end-to-end responsibility.

The center provides reliable emergency service to the Guardian subscribers, minimizes false alarms and aids the local emergency service in performing their duties.

The Guardian's 24-hour monitoring service plays a vital roll in responding to alarm conditions transmitted by the TCM. All alarms are instantaneously verified and when appropriate an emergency service is dispatched.

The Company will convey, through continuous national programs, this twenty-four-hour "Lifeline" concept to all subscribers of THE GUARDIAN.

Monitoring Methodology

Upon receipt of an alarm signal from the subscriber's TCM, the Central Control Center will automatically perform the following activities:

An alarm signal is received with specific encoding instructions to indicate which type of alarm condition exists (fire, intrusion, etc.).

The central monitoring computer station receives the data record and validates it by using "check digit" verification methods.

The verified data is transmitted to the central database which contains all pertinent subscriber information for immediate, on-line access.

A flash alarm screen will automatically present the subscriber information on the CRT screen at the operator's console. As the information is presented, a call is immediately outpulsed to the subscriber telephone for verification. This call is autodialed by the computer to avoid any margin of error.

If the individual contacted confirms that the alarm was generated in error, they must clear the system by entering a predetermined "clearance code".

If the "clearance code" is not accurate or is unobtainable, the system autodials the appropriate local emergency service, based on the type of alarm and relays all pertinent information.

After a preprogrammed interval the local emergency service will be contacted for verification of all events. All follow-up information will be stored online for statistical reporting.

INTRODUCING THE FIRST INEXPENSIVE HIGH QUALITY SECURITY SYSTEM WITH MASS MARKET APPEAL
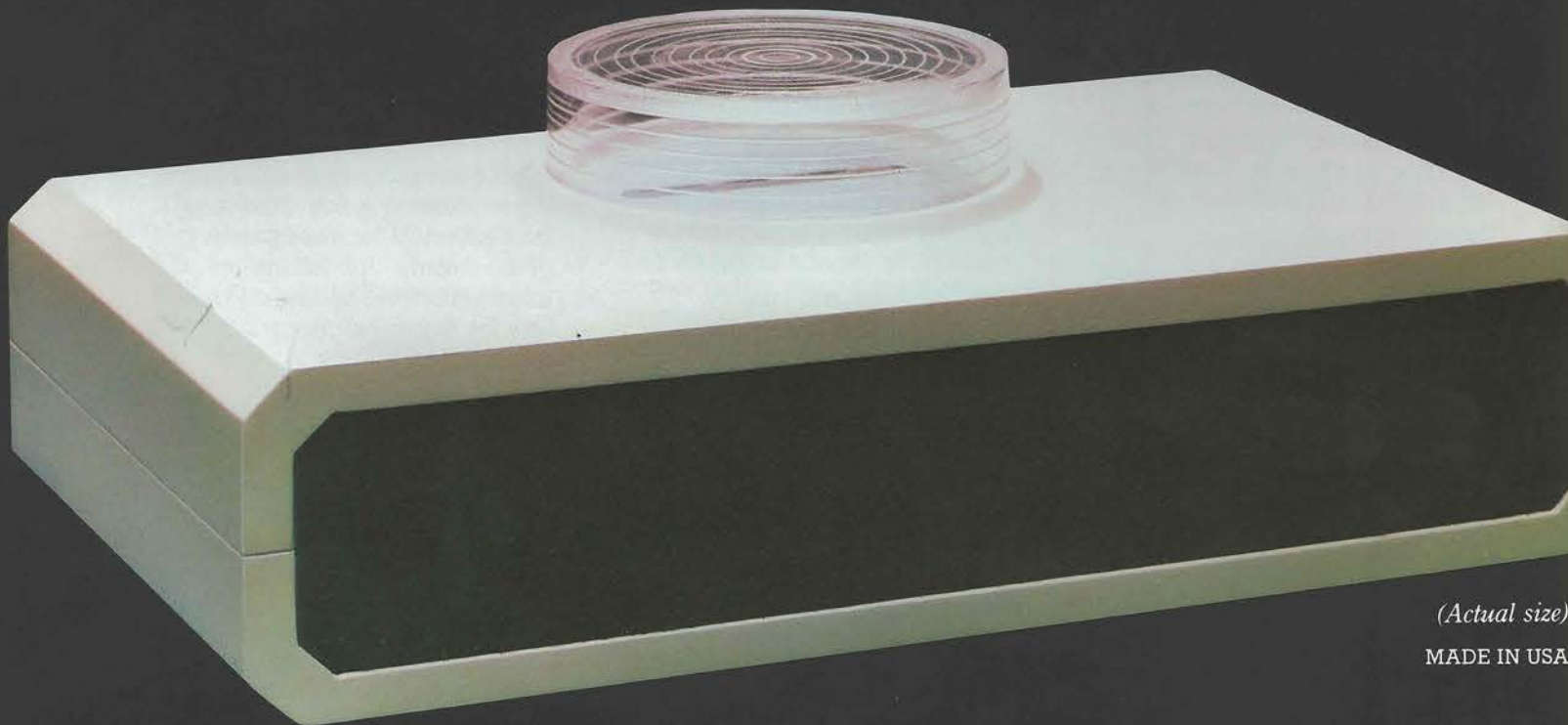
This is the first environmentally protected security system utilizing advanced technological hybrid circuit design. It's perfect for use in homes, apartments, garages and business offices (AC/DC). Plus it can also be used as a fully portable security system for cars, boats, trucks, recreational vehicles or in hotel rooms (9 volt battery).

The ultrasonic detection area can be adjusted for any area up to 500 square feet. If the protected area is penetrated, a high intensity alarm will sound and a high intensity strobe light will light up the entire area.

Once the alarm is set, the system allows the operator 25 seconds to leave the protected area. Upon re-entering the area, the operator has 15 seconds to turn the system off before the alarm sounds. If the alarm is activated it will automatically turn itself off after 3 minutes and then instantly resets itself.

Durability is assured because this unique security device is protected by an extra strength, high impact plastic case.

CRIMESTOPPER®
Security System

(Actual size)

MADE IN USA

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