2012 NEW PRODUCT REVIEW

PARADOX™

Paradox Security Systems is a pace setter in the security industry

Founded in 1989, we are a privately-owned, multinational manufacturer delivering advanced security solutions to residential, industrial and government organizations world-wide via our exclusive distribution partner ecosystem. Our award-winning research and development teams, based in Canada and Israel, develops a full range of innovative security panels, motion detectors, interactive touchscreens and security accessories which leverage groundbreaking technologies.

Paradox is proud of our state-of–the–art, ISO 2008 certified, Canadian manufacturing facility which produces top-notch, dependable products. The Paradox distributor support program is comprised of expertly-trained support specialists who educate and assist our customers on product related issues, a global marketing team that produces top-quality, effective marketing and technical documentation, and a channel management team that provides personalized commercial support.

The Paradox distributor network covers over 100 countries supporting tens of thousands of trained installers, dealers and monitoring stations proudly selling and servicing Paradox products in residential and industrial environments.

Indoor Wireless Siren with Built-in Strobe Light
SR120

The SR120 is a stand-alone, fully supervised wireless siren with built-in strobe light and wireless transceiver. The SR120 operates using three size "C" alkaline batteries. With normal use, the SR120 will function up to three years without the need to replace the batteries. The SR120 uses 2-way wireless communication, which provides continuous supervision between the panel and siren with fast response to alarm signals within 4 seconds.

Features

- Built-in transceiver
  (433MHz or 868 MHz)

- Siren that reaches 100dB or more

- Integrated strobe light

- Fast alarm response time
  (within 4 seconds)

- 2.5 hour alarm display (strobe flashes
  every 4 seconds after bell cutoff)

- Siren presence supervised by
  control panel

- Wall tamper protection against removal
  of unit from wall

- Battery cover tamper protection against
  cover removal

- Assign a total of four sirens per control
  panel (including SR150)

- Firmware upgradable via 307USB

- Siren test mode

Highlights

- Wireless range in a typical residential
  environment:

  - 35m (115ft) with MG6160, MG6130,
    and MG6250;

  - 70m (230ft) with MG5000, MG5050
    and RTX3

- Signal strength/RF transmission and
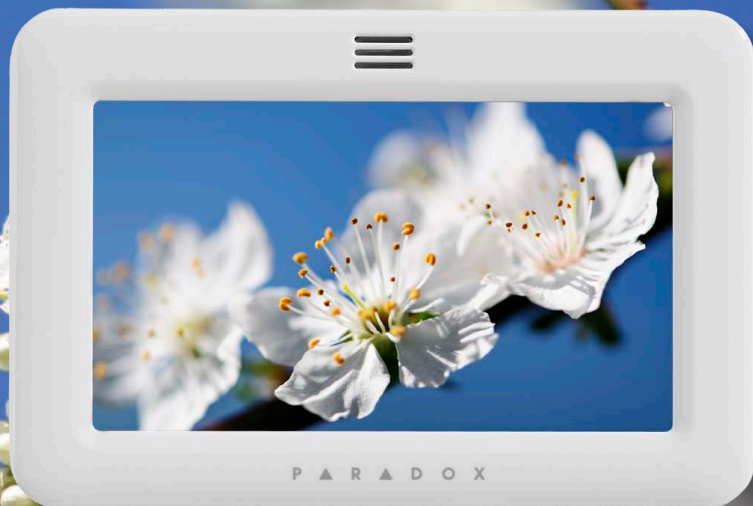 status LED

Compatibility

- Compatible with MG Series V4.0 and
  SP series V4.0 when using RTX3 V1.5

- MG6130/MG6160 v3.0 or higher

- RTX3 v1.5 or higher

- K32LCD v1.3 or higher

- K32LX v1.0 or higher

- WinLoad v4.7 (with InField Upgrade
  Software v2.3) or higher

	SR120
Power	4.5Vdc (3 size "C" alkaline batteries)
Battery life	Up to 3 years based on normal use (e.g., 2 alarms per year with strobe for 2.5 hours and 8 squawks per day at an average of 25ºC (77ºF) with default alarm time set to 4 minutes. If the alarm is set for more than 4 minutes, the battery life may be reduced.
RF frequency	433MHz or 868MHz
Siren	100dB or more (1 meter)
Dimensions	15.2cm X 4.6cm X 10.9cm (6in X 1.8in X 4.3in)
Weight	24g (.85oz) without batteries
Humidity range	5% to 90%
Operating Temperature	-20ºC to 50ºC (-4ºF to 122ºF)
RF range	70m (230ft)

Intuitive Touchscreen
TM50

The TM50 Touch is the next generation in system control. With its bright color display, intuitive icons, and menu-driven interface, the TM50 Touch reflects Paradox's commitment to user-centric design. The TM50 Touch allows you to control your Paradox system's functions through its touchscreen interface. This advanced touchscreen includes many convenient features, such as support for up to 32 floor plans with test mode (optional SpotOn Alarm Locator™ and Solo Test™ features), and OneScreen Monitoring™, which allows the user to view the status of all eight partitions and up to 192 zones.

Features

- Thin, sleek design
  - 5.0 in. / 12.7 cm vivid color display (480 x 272 pixels)
  - Intuitive, icon-based menus - no manual needed

- Control up to 8 PGM outputs

- Available in classic Piano Black and Pristine White, as well as other exciting designer colors

- Powerful advanced processor

- In-field firmware upgradable via micro SD card

- 1 zone/temperature input to connect a detection device or a TEMP07 (External Temperature Sensor)

- Customized translation via web application

Highlights

User-Friendly

- The TM50 Touch makes the user experience easier and friendlier than ever. Featuring intuitive icon-based menus (no manual needed), ultra-fast response time when scrolling through pages, and clear and precise menu-driven prompts, the TM50 Touch is the next generation in system control.

SpotOn Alarm Locator™ (optional)

- Up to 32 images can be uploaded to the TM50 Touch to provide a graphic verification of zone locations. Customize the system with floor plans, photographs, or images.

OneScreen Monitoring™ (optional)

- This feature displays the arming status of all partitions and zones. Also, with Solo Test™ mode, installers and users can easily test all system zones right from the TM50 Touch's screen.

Easily Upload Images

- Using the external media card slot, you can quickly upload images for use with the slide show function and SpotOn Alarm Locator™ features.

Customizable Labels

- Allows the user to customize and edit zones, areas, users, and PGM labels.

TM50 Touch

Power Input	9 to 16 Vdc
Display	16-bit, color LCD; 6.4 x 11.2 cm (2.5 x 4.4 in.), 480 x 272 pixels
Consumption	Standby: 100mA, Alarm: 200mA
Dimensions	14.4 x 9.6 x 1.4 cm (5.7 x 3.8 x 0.6 in.)
Weight	165 g (5.8 oz)
Humidity	5-90%
Sensor	Indoor temperature sensor
Compatibility	EVO v2.16 or higher, MG/SP v4.72 or higher (for the latest updates, please visit PARADOX.COM)
Colors	

Digital Outdoor Dual Side-View Detector with 4x Dual Sensors
NV780/NVR780

The NV780 and NVR780 (wireless version) are designed to provide a pre-entry protection solution while keeping the perimeter free for movement without generating false alarms. The NV780/ NVR780 provide early warning detection, before intruder entry, with excellent exterior/interior wall and window protection. These rugged indoor/ outdoor detectors incorporate two passive infrared side-by-side detectors, each containing two independent dual element sensors, optics, and electronic channels.

Features

- Design integrates sleek modern look with rugged and weather-resistant exterior
- 4x dual rectangular element, low noise, high sensitivity, EMI immunity
- 2nd gen., flat, 2x dual beam, 1.77" focal point, narrow beam long-range Fresnel lens
- High resolution digital signal processing / digital APSP / true digital temperature compensation / ultra low current-saving algorithm
- Bi-directional, independent, 2 x 3m to 12m (9.8ft to 39ft) coverage
- True Pet Immunity: up to 40kg (90lb)
- Built-in transceiver - 433 or 868 MHz (NVR780 only)

Highlights

Advanzced Digital Technology

- Two double passive infrared motion detector with eight narrow detection beams, managed by Full Authority Digital Electronics Control (FADEC)
- High-resolution and full dynamic range digital signal conversion
- High-speed, advanced algorithm digital signal processing
- Digital EMI / RFI interference rejection

Advanced Optical Technology

- 4x dual element sensors arrangement
- High efficiency long focal point (1.77") lens, providing long-range narrow beams
- 2 pairs of narrow beams per side provide 2x signals per protected area crossing for increased "catch" and false alarm rejection
- Combination optics of mirror reflector and 2nd generation Fresnel "LoDiff" Lens
- Increased white light rejection

Easy Installation and Setup

- Single or Dual Zone operation modes: two sides can report to a single zone or to two separate zones
- Optical and digital range adjustments
- Bright LED and buzzer indicator for clear adjustment feedback
- No need for PCB removal
- Wall mount, with built-in level tool
- In-field firmware upgradable via serial port

Advanced Wireless Operation (NVR780 only)

- Ultra low power management operation with Paradox Effi+ circuit
- Dual tamper detection (removal of cover or unit)

	NV780	NVR780
Sensor	4x dual rectangular element, low noise, high sensitivity, EMI immunity	4x dual rectangular element, low noise, high sensitivity, EMI immunity
Lens	2nd gen., flat, 2x dual beam, 1.7" focal point, narrow beam long-range Fresnel lens	2nd gen., flat, 2x dual beam, 1.7" focal point, narrow beam long-range Fresnel lens
Processing	High resolution digital signal processing / digital APSP / true digital temperature compensation / ultra low current-saving algorithm (NVR780 only)	High resolution digital signal processing / digital APSP / true digital temperature compensation/ultra low current-saving algorithm (NVR780 only)
Startup time	25 sec.	35 sec.
Detection speed	0.2m/sec – 4m/sec (0.6' – 13.1'ft/sec)	0.2m/sec – 4m/sec (0.6' – 13.1'ft/sec)
Power input	10Vdc to 15Vdc	3x AA alkaline battery
Current consumption	9.9mA @ Standby (Dual), 14.4mA @ Standby (Single) 39.8 mA @ Alarm (Dual, One LED + Buzzer), 58.0mA @ Alarm (Dual, Two LEDs + Buzzer), 41.5mA @ Alarm (Single, One LED + Buzzer)	3 year battery life
Coverage	Bi-directional, independent, 2 x 3m to 12m (9.8ft to 39ft)	Bi-directional, independant, 2 x 3m to 12m (9.8ft to 39ft)
PET Immunity	Up to 40kg (90lb) - requires min.1.5m (4.9ft) installation height	Up to 40kg (90lb) - requires min.1.5m (4.9ft) installation height
Installation height	1.5m and above	1.5m and above
Alarm indicator	2x red LED for 3 sec., 1 for each detection side + buzzer (can be disabled)	2x red LED for 2 sec., 1 for each detection side + buzzer (can be disabled)
Alarm output	2x Solid State, N.C, 150mA. In Dual mode the relays are 2 independent Form B type and in Single mode the relays are a single Form C type operation	Configured as two independant zones or a single zone
Anti-tamper switch	N.C. 28Vdc, 0.15A	Box and wall tamper detection and messages
Operating temperature	-35°C to +50°C (-31°F to +122°F)	-35°C to +50°C (-31°F to +122°F)
Humidity	95% max.	95% max.
Dimensions	9 x 5.5 x 4 cm (3.5 x 2.2 x 1.6 in.)	9 x 5.5 x 4 cm (3.5 x 2.2 x 1.6 in.)
RF Frequency	N/A	433MHz or 868MHz
RFI Immunity	Complies with EN 50130-4: 10V/m 80MHz to 2GHz	Complies with EN 50130-4: 10V/m 80MHz to 2GHz

Wireless Carbon Monoxide Detector
WC588P

The WC588P protects against fatal levels of carbon monoxide (CO). Carbon Monoxide is a colorless, odorless and tasteless poison gas that can be fatal when inhaled at highly concentrated levels. The most likely sources of CO in your home are appliances used for heating and cooking. Additionally, vehicles running in attached garages can produce dangerous levels of CO. The WC588P includes Magellan wireless communication and is available in both 433Mhz and 868Mhz.

Wireless Heat Detector
WH588P

The WH588P is intended to be used as an addition to the WS588P wireless smoke detector. Heat alarms detect temperatures of 58°C (135°F) or greater, and are sensitive to a fixed temperatures. The WH588P has an LED operation indicator, a self-test button, and has been optimized to reduce the nuisance alarms due to contamination, dust and insects. Furthermore it has battery tamper-resist feature and an auto-hush function to stop the alarm when temperature is below the alarm point. The wireless heat detector is ideal for kitchens, garages, boiler rooms and other areas where there are normally high levels of fumes, smoke, or dust.

Wireless Smoke Detector
WS588P

The all-new WS588P features a sleek, low-profile design - providing a stylish and unobtrusive smoke detector that virtually blends into any ceiling. The WS588P includes Magellan wireless communication and is available in both 433Mhz and 868Mhz. The WS588P features a modern, compact design and is CE and EN14604 approved. The detection chamber of the detector is designed to offer protection against insect and other foreign bodies.

Features

- Highly sensitive electrochemical carbon monoxide sensor
- CE and EN 50291 certified

Features

- Fixed temperature heat sensor
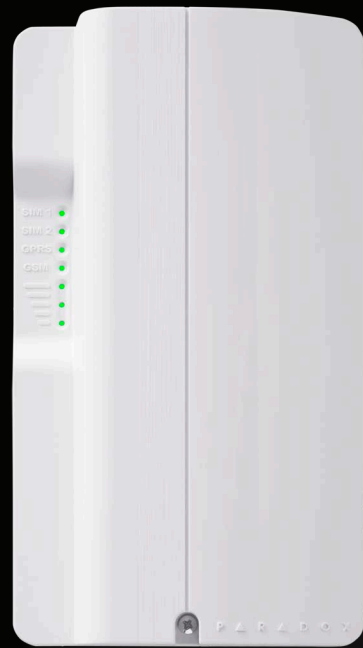- CE certified

Features

- One high-sensitivity photoelectric smoke sensor
- CE and EN 14604 certified

Common Features

- DC battery operated wireless alarm
- Compact, low-profile design
- Built-in siren
- Available in 433MHz or 868MHz
- Protection against the ingress of foreign bodies / Insect Guard

- Anti-tamper sensor
- Test / Hush button
- LED operation indicator
- Low battery indicator

- Easy installation
- Not Available For North America
- Made by Xiamen Vs-Top Electronics Co.,Ltd.

	WC588P	WH588P	WS588P
Detection Type	Electrochemical	—	Photoelectric Chamber
Power Source	9V DC Battery	9V DC Battery	9V DC Battery
Alarm point	—	58 degrees c (135 f) fixed temperature triggers alarm	—
Working frequency	433/868MHz (open space)	433/868MHz	433/868MHz
Emission distance	>150m	>150m (open space)	>150mm (open space)
Standby Current	<18uA	18u A max	18u A max
Alarm Current	<20mA	18m A max	18m A max
Alarm Level	50ppm (Between 60-90 min)	—	—
	100ppm (Between 10-40 min)		
	300ppm (Between <3min.)		
Alarm Sound	Level: 85 decibels at 3m (10 feet)	Level: 85 decibels at 3m (10 feet)	Level: 85 decibels at 3m (10 feet)
Recommended Coverage	—	232 m2 (2500 square feet)	—
Recommended Spacing	—	15m (50ft)	—
Maximum Distance from wall	—	7.5m (25ft)	—
Operation Temperature	5c to 38 c	-23c to 70c	5 c to 45 c
Ambient Humidity	15% to 90% Relative Humidity	—	10%-90%
Sensitivity to Smoke	—	—	3.0-6.0 %Obs /m

GPRS/GSM Communicator Module
PCS250

The PCS250 is the next evolutionary step in wireless communication solutions for Paradox control panels. Providing reliable and fast communication between properties and their respective monitoring stations, the PCS250 is the vital link that keeps you connected.

Using cellular networks, the PCS250 reports to the monitoring station's automation software via two channels (GPRS/GSM), ensuring that all communication is fast, reliable, and stable. The PCS250 can be used as a backup to a traditional landline, or as a primary communicator where no landline is available. It also adds remote home control capabilities to a system, allowing you to arm/disarm with a simple text message (SMS). Feel safe by taking control of your system, wherever you are.

Re-imagined through an array of new technologies, contemporary design, and a modern hi-tech finish, the PCS250 GPRS/GSM Communicator Module enables Paradox systems to be remotely controlled, continuously monitored, and reliably connected at all times.

Features

- Compact, sleek design

- Report events to the IPR512 GPRS/IP Monitoring Receiver and/or IPRS-7 IP/GPRS PC Receiver Software

- Report via text message (up to 16 cell phone numbers)

- Control panel communication supervision

- End-user can arm or disarm the system by sending a text message (SMS) to the PCS250

- Send pre-recorded voice messages to up to 8 telephone numbers to report alarms using the optional VDMP3 Paradox Plug-in Voice Module (GSM mode)

- Simple installation with 4-wire serial connection

- Optional rod antenna can be installed up to 18m (60ft) from the module using optional antenna cable extensions depending on the local signal strength

- 128-bit (MDS) and 256-bit (AES) encryption (GPRS mode)

- Increase the distance between the panel and the PCS250 module with an RS485 link (GSM mode only via e-bus). A CVT485 module must be added to the panel in order to accomplish this.

- Report via GSM (CID, SIA)

Highlights

Central Station Reporting via GPRS or GSM

- The PCS250 provides GPRS or GSM reporting. The difference is a simple serial connection change to the control panel that can implement the desired reporting method. The PCS250 supports all the reporting formats supported by your panel.

Firmware Upgradeable via GPRS or On-Site

- Supports PCS250 and control panel firmware upgrades through the GPRS network. These upgrades can be conducted remotely using a PC with an internet connection, or on-site using the InField Firmware Upgrade software

Event Notification and System Control via SMS

- Automatically sends SMS text messages to up to 16 cell phone numbers displaying the nature of the event or trouble. Messages contain event description, site name, date, time, and any associated labels such as area, zone, and serial number. Event descriptions are pre-defined in the PCS250 module and are available in multiple languages (installer selectable).
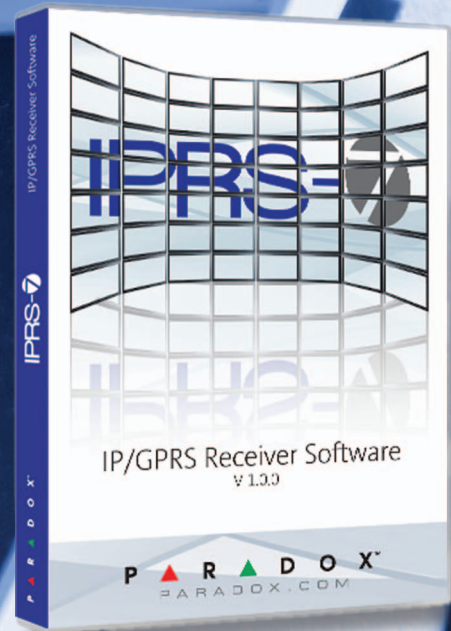
Control Panel Communication Supervision

- The PCS250 provides several supervision options to ensure that you or the monitoring station is notified of problems such as loss of GSM service or loss of communication with the control panel (GSM mode only).

PCS250

Power	Class 4 (2W) @ 850/900 MHz; Class 2 (1W) @ 1800/1900 MHz
Antenna Bandwidth	70 / 80 / 140 / 170 MHz
Antenna	Gain < 3 dBi; impedence 50 Ω; input power >2W peak power
Power Input	12Vdc nominal
Consumption	100 mA standby, average 450 mA (1.2A peak) during GPRS/GSM transmission
Operating Temperature	0°C to 50°C (32°F to 122°F)
Encryption	128-bit (MDS and RC4) or 256-bit (AES)
SMS Protocol	8-bit (IRA:ITU0T.50) or 16-bit (UCS2 ISO/IEC10646)

IP/GPRS PC Receiver Software
IPRS-7

The IPRS-7 is a desktop application that is specifically designed to emulate the IPR512 IP/GPRS Monitoring Receiver directly from a computer without the need for an actual receiver. It also provides SMS reporting as a backup solution. The IPRS-7 is a powerful, fast, and user-friendly software that is easy to setup and is virtually maintenance free. Once installed, the application is seamless and invisible to the user.

Features

- Register, display, and manage an unlimited number of accounts
- Buffer and manage incoming events (up to 50,000)
- Received events are converted and stored by the application in CID format
- Selectable input (IP port and GSM/GPRS modem) and output (COM port)
- Account supervision
- Security profiles management
- Monitor GSM/GPRS modem and acknowledge central station on network failure detection

Highlights

- Live system monitoring (zones, doors, and troubles) without interrupting central station communication or system operation
- Arm/disarm, bypass zones and control PGMs
- Generate and print customized reports
- Accounts can be registered via IP or SMS
- Supports SMS reporting protocol through commercial GSM/GPRS modem
- Converts incoming IP signal from a Paradox communication device to one of the following communication protocols
  - ADEMCO 685
  - SURGARD
  - RADIONICS 6500
- Application auto-starts upon Windows start-up and always runs in background
- Personalized software by using customer logo
- Supports several languages simultaneously
- Easy to install, i.e., the installation setup is downloadable from the web

Minimum Requirements

- Windows® 2000/XP®/Vista® (32 or 64-bit)
- Windows 7 as supported platform
- Requires administrator rights and UAC disabled on Vista and Windows 7

- 256MB of RAM (512MB RAM recommended)
- Pentium® III 800 MHz or higher
- 150MB free disk space
- Super VGA Monitor (1024 x 768 resolution)

Alarm System Control
iParadox

The iParadox app enables users to remotely access their Paradox security system. iParadox provides lots of functionality and information at one's fingertip. The multi-lingual app has an intuitive user-interface which enables the user to easily connect to their security system and edit its settings. With arm / disarm control, PGM control, and live system status, iParadox turns any Wi-Fi or 3G iPhone, iPod touch, iPad or Android™ phone into a remote keypad. Now users can control their Paradox security system from their favorite Apple™ or Android device!

iParadox for Android

Features

- Multi-site support (up to 4): one connection at a time
- Arm / disarm system remotely
- One-touch arm / disarm for all areas - EVO only
- Bypass Zones
- Displays module label when module trouble occurs
- Displays type of alarms (silent, audible, etc.)
- Control up to 16 PGM with MG/SP series, 5 for EVO series
- Supports utility keys for PGM activation
- Customizable PGM labels
- Supports multiple languages (24)
- Connects with static or dynamic IP (ParadoxMyHome)
- Vibrate and/or sound upon an alarm
- True tablet support (no stretched icons, etc.)
- Faster connection to site(s)
- Can run in background; allowing users to perform other tasks
- Zone view types for system/zone status and bypassed zones are remembered
- Use a language in iParadox even if the device does not support it
- Faster/easier navigation between screens; user can tap on screen to go forward/backward instead of using button or keys
- More web-like interface with less dialog pop-ups

iParadox for iOS

Features

Common features for Lite and Full version

- Compatible with EVO192 (V2.20 or higher), and all MGSP control panels (requires IP100 V5.10 or higher)
- Compatible with iPhone, iPod Touch, iPad and iPad 3G
- Displays alarm memory
- Displays system troubles
- Functions via Wi-Fi or 3G

Features for Full version only

- Multi-site support (up to 4): one connection at a time
- Arm / disarm system remotely
- One-touch arm / disarm for all areas - EVO only
- Bypass Zones
- Displays module label when module trouble occurs
- Displays type of alarms (silent, audible, etc.)
- Control up to 16 PGM with MG/SP series, 5 for EVO series
- Supports utility keys for PGM activation
- Customizable PGM labels
- Supports multiple languages (24)
- Connects with static or dynamic IP (ParadoxMyHome)

Highlights

Security System Controls

- Remotely arm / disarm system
- Receive automatic email notification when alarm is activated or when system is disarmed
- Check the current status of the alarm system
- Notification of troubles

Programmable Outputs (PGMs)

- Turn on / off lights
- Control window shutters
- Control garage doors
- Control garden sprinklers
- And many more

Minimum Requirements

- Android V1.6 or higher
- Paradox EVO192 (V2.20 or higher), and all MG5000, MG5050, SP4000, SP5500, SP6000, SP6500, and SP7000 systems
- IP100 Internet Module V5.10 or higher

Minimum Requirements

- iOS 4.0 or higher
- Paradox EVO192 (V2.20 or higher), and all MG5000, MG5050, SP4000, SP5500, SP6000, SP65, and SP7000 systems
- IP100 Internet Module V5.10 or higher.

Wireless Glassbreak Detector
G550

The G550 provides superior perimeter protection by keeping intruders outside. It is a great addition to an installation's first line of defence; it easily integrates within your system with trouble-free installation. The G550 delivers effective coverage of plate, tempered, wired, and laminated glass without the need for complex sensitivity adjustments. The G550 combines an advanced acoustic sensor* with supervised wireless capabilities (available in 433MHz and 868 MHz).

* Sentrol Inc. ShatterPro™ acoustic sensor with Pattern Recognition Technology™ (protected under U.S. Patent 5,192,931)

Features

- Leading-edge design complements any decor
- Ideally suited for both residential and light commercial applications
- Trouble-free installation
- Supervised wireless detector offered in 433 MHz and 868 MHz
- Six meter (20 ft.) radius range and 360° coverage pattern protects an entire room with one sensor
- Standard Alkaline 3x AAA type battery with low battery supervision
- Factory-set sensitivity for safer installation
- Impact and shock wave analysis
- High-immunity to RFI and EMI signals
- Glass Characteristics:
  - Minimum 1' x 2' (0.3m x 0.6m) or larger.
  - Glass Type Glass Thickness
  - Plate 3/32" to 1/4" (2.4 mm to 6.4 mm)
  - Tempered 1/8" to 1/4" (3.2 mm to 6.4 mm)
  - Wired 1/4" (6.4 mm)
  - Laminated 1/8" to 1/4" (3.2 mm to 6.4 mm)
- Hand-held tester available separately

Highlights

- A blend of distinctive, sleek styling and advanced technology, the G550 is the industry's proven performer
- Detect breaking of different types of glass including plate, tampered, laminated and wired
- Recognizes actual pattern of breaking glass across the full audio band

	G550
Housing material	Flame retardant ABS
Power	3 x "AAA" alkaline batteries
Battery life	2 years
Alarm duration	4 seconds
RF immunity	20V/meter, 1 MHz to 1000 MHz
Microphone	Omni-directional electrets
Temperature rage	32° to 120° F (0° to 50° C)

Personalized Service, Innovative Technology Since 1989

Paradox's support teams are fundamental to our business. In order to establish long-term and effective partnerships with our customers, our support teams are always available to guide them and listen to their feedback.

There is no limit to the level of service we provide. Whether it be promptly answering a simple question via email or going on-site to resolve a specific issue, our focus is on personalized service.

Paradox Canada
Paradox Security Systems Ltd.

Paradox USA
Paradox USA of Florida, Inc

Paradox Bahamas
Paradox Security Systems (Bahamas) Ltd.

Paradox Europe
Paradox R&D Israel Ltd.

Distributor Support

The main objective of this department is to provide professional technical assistance to our distributors from around the world on product operation and configuration. The technicians in the department also assist our distributors in an effort to adopt and fully understand all the features and functionalities of Paradox products.

Assistance in English and French

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Email: support@paradox.com

Assistance in Spanish

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Patents
One or more of the following US patents may apply: 7046142, 6215399, 6111256, 6104319, 5920259, 5886632, 5721542, 5287111, 5751803, and RE39406 and other pending patents may apply. Canadian and international patents may also apply.

Trademarks
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Approvals
For the latest information on product approvals, such as UL and CE, please visit our website at paradox.com.

Specifications
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