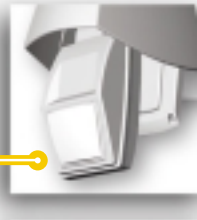
THE VISION OF SECURITY



# SECURITY PRODUCTS CATALOGUE

## INTERNATIONAL EDITION

CROW

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CROW ELECTRONIC ENGINEERING LTD.

Actec Ltd.
Access Control Solutions

VIDEO DOMAIN

The Crow Group is a worldwide leading manufacturer of security products. With a full range of wired and wireless alarm control panels, access control systems, intrusion alarm detectors, unique outdoor sensors and Digital integrated CCTV solutions, the Crow Group, with its proven expertise, is committed to providing the security market with the finest equipment.

Crow's products are used worldwide by professional installers and central stations companies to protect individuals and properties in residential, commercial, industrial and military environments.

Crow has established distributors and representatives in over 40 countries as well as sales offices in the USA and Australia. International sales are continuously increasing as a result of the company's ongoing investments in new technologies and new products developed with the continuous commitment to quality in mind.

CROW ELECTRONIC ENGINEERING LTD. The company was founded in 1982 with the specific aim of developing, designing and manufacturing advanced products for the security industry. The company's commitment to innovative design and quality has ensured that Crow has established itself as one of the very top names in the international security market. As a ISO 9000 registered company, Crow offers improved quality assurance procedures for customer satisfaction.

FREE LINK LTD. develops and markets short range wireless systems based on spread spectrum and unique communication patents. Its product range includes wireless security systems for home automation, as well as indoor wireless security systems, and wireless perimeter detection systems. Free Link holds patents in the USA, Europe and Israel for methods and systems for immune low rate modems.

ACTEC LTD. offers advanced Access Control solutions for the professional security market including multi users stand alone and PC based systems.

VIDEO DOMAIN TECHNOLOGIES LTD. develops, manufactures and markets a full line of digital video and audio, CCTV and Remote Surveillance solutions.

# The Vision Of Security

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*This product catalog contains bullet formatted information on our product lines. For further information please contact us at sales@crow.co.il*
*Information is also available on our website - www.thecrowgroup.com*

*Specifications are subject to change without prior notice.*

CROW

www.thecrowgroup.com

# POWER WAVE

**SERIES**

WIRED & WIRELESS ALARM CONTROL PANELS WITH HOME AUTOMATION AND ACCESS CONTROL CAPABILITIES

**4 UP TO 256 ZONES**

## POWERWAVE LED ICON KEYPADS

- Special active only icons viewing
- Compact design
- 18 one touch full size function keys
- Memory viewing
- Backlight soft touch buttons with tone
- 1 Panic button
- Special control key for output activation

## POWERWAVE LCD KEYPADS

- 2x16 Character two line compact LCD display
- 3 Panic buttons
- Programmable messages
- Events display
- 3 Emergency buttons
- Backlight soft touch buttons with tone
- Multilingual support
- Supports all Powerwave control panels

## POWERWAVE 8 "COMPACT"

- Self contained Housing with Built-in large LCD Display
- Supports up to 8 wireless zones

Offering alarm, home automation and access control capabilities, Crow's PowerWave Series Control Panels are designed for residential and commercial installations.

### WIRELESS CAPABILITIES

The PowerWave 16 is able to support 16 wireless PIRs or reed switches, while each system keypad or partition keypad can perform the function of an intelligent door controller. PowerWave 8 offers 8 inputs.

### MULTITASKING KEYPAD BUS

Features of the PowerWave Series include a multitasking keypad Bus which is able to support up to 8 keypads and multiple radio receivers cards on the same Bus. The multi tasking Bus enables users to simultaneously enter codes at different keypads with no signal collisions, while inputs from the radio receiver can also be received at access points. In addition, each keypad is separately addressed and can be customized to provide different button, display and audible options.

### MULTIPLE REPORTING OPTIONS

The PowerWave Series also offers multiple reporting options with programmable phone numbers and dialing string scenarios allowing each partition to report as programmed to a central station, a pager or a voice dialer.

### EXTENDED VOICE MESSAGES

The optional voice board allows up to 90 seconds of specific voice messages to be recorded in any language, and linked to system events such as arm/disarm, zone and partition status as well as monitoring functions.

### DYNAMIC BATTERY CHECK

PowerWave control panels carry out a dynamic battery check every 5 seconds without disconnecting AC power. This ensures that the battery is always ready to act as a standby, yet without affecting its life expectancy.

### ON BOARD FULLY PROGRAMMABLE ALARM OUTPUTS

The PowerWave control panels are capable of triggering alarm outputs which can be configured to be operated either from the system keypad, through wireless remote transmitter buttons or via the telephone line.

# POWERWAVE SERIES OPTIONAL BOARDS

## VOICE BOARD

- 90 sec recording of alarm and control messages
- 4 Digit code per partition for arm/disarm
- 4 Digit code for output control
- Local or via DTMF operation
- Voice messages recorded with speech programmer
- Microphone input

## PA BOARD

- 90 sec local pre-recorded voice messages for alarm conditions and status
- Multi volume messages play though connected horn speaker
- Siren driver
- Optional PA board with microphone input
- Voice Messages Recording

## MICROPHONE MODULE

- Listen in via tel. line of alarm status and outputs

## OUTPUT RELAY EXPANDER BOARD

- 4 Relay Outputs
- Programmable via Keypad Bus Communication Connection

## D/LINK INTERFACE

- Direct Up/Down load via serial interface
- Memory events sending to standard serial printer

## MONITOR BOARD

- Special flush mount panic board
- Panic and night arming module

## EEPROM MODULE

- Plug in module for data transfer to multiple panels with common programming
- No need for telephone line or PC

# POWERWAVE SERIES OPTIONAL WIRELESS MODULES (AE SERIES & MERLIN LINE)

## WIRELESS MOTION DETECTORS

- Asic based electronics
- SMD technology
- Ultra low current consumption
- 3.6 V Lithium battery powered
- Automatic low battery transmission

## WIRELESS REED SWITCHES

- 3.6 V Lithium battery powered
- Ultra low current consumption
- External switch input
- AEDW-101 Merlin Mag & Merlin Gate

## WIRELESS SMOKE DETECTORS

- 9 V Battery powered
- Low battery indicator
- AE Series only

## 16 RX RECEIVER

- Supports up to 16 transmitters and 16 remote control units
- Supports Merlin Wireless Line
- Full supervision
- Digital modulation
- Enroll learning mode
- Multiple receivers installation

## REMOTE CONTROL UNITS

- 2 or 4 button remote units
- Lithium battery operated
- 2/4 channels
- SX-TR units or merlin units

# POWER WAVE SERIES

WIRED & WIRELESS ALARM CONTROL PANELS WITH HOME AUTOMATION AND ACCESS CONTROL CAPABILITIES

## PowerWave 4

- 4 hardwired zones
- Economic solution for residential applications
- User Friendly Upload/Download Software Package
- 2 on board Programmable Outputs
- Supports PowerWave 8 accessories

## PowerWave 8

- 4-8 programmable EOL zones with tampers without zone expander
- 2 partitions and 2 part set modes
- Programmable Day zone (Chime) mode
- Two trigger zone function
- Siren Lockout by zone and output
- Intelligent smoke detector reset
- 2 exit delay timers & up to 8 entry delay timers
- Monitor mode night arming station
- Up to 10 users
- Separate technician codes & programmable user permissions
- Multiple keypads simultaneous use
- Dynamic battery testing and monitoring
- 4 on board fully programmable outputs
- Optional 4 way relay output expander
- Built-in real time clock
- 127 time and date stamped event memory also via keypad
- Multiple communication formats incl. Contact ID
- Optional 90 sec voice board recording of up to 8 alarm messages
- Local PC link for Upload/Download
- EEProm program backup module via serial port
- Full Remote upload/download - supports Windows
- Call progress & Phone line monitoring
- Up to 4 programmable phone numbers
- Up to 8 radio PIRs or radio reed switches
- Arm/Disarm and output control via up to 8 radio keys
- Instant or delayed panic via radio keys

## PowerWave 8 "Compact"

- In self contained Housing with Built-in large LCD Display
- Supports up to 8 wireless zones

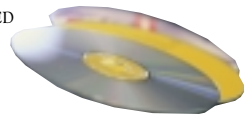
## PowerWave 16

- 8-16 programmable EOL zones with tampers without zone expander
- Up to 3 partitions and 3 part set modes
- Programmable Day zone (Chime) mode
- Two trigger zone function
- Siren Lockout by zone and output
- Zones programmable as Request to Exit or as Door Open too Long
- Intelligent smoke detector reset
- 3 exit delay timers & up to 16 entry delay timers
- Monitor mode night arming station
- Up to 24 users
- Up to 8 programmable time zones
- Auto Arm/Disarm, control of users and control of outputs via time zones
- Separate technician codes & programmable user permissions
- Keypads access control feature
- Dynamic battery testing and monitoring
- 8 on board fully programmable outputs
- Optional 4 way relay output expander
- Built-in real time clock
- 256 time and date stamped event memory also via keypad
- Multiple communication formats incl. Contact ID
- Optional 90 sec voice board recording of up to 30 alarm & control messages
- Optional 90 sec local recording PA board with siren driver
- DTMF control of arming, outputs and mic. Via Voice board
- In house over the speaker voice annunciations
- Local & remote control of outputs and partitions
- Local PC link for Upload/Download
- Local link to printer via Serial port
- EEProm program backup module via serial port
- Full Remote upload/download - supports Windows
- Call progress & Phone line monitoring
- Up to 6 programmable phone numbers and 4 scenarios
- Up to 16 radio PIRs or radio reed switches
- Arm/Disarm and output control via up to 16 radio keys
- Instant or delayed panic via radio keys

| Specifications | PowerWave 4 | PowerWave 8 | PowerWave 16 |
|---|---|---|---|
| Input power | 17VAC @1.4A via Class 2 25VA Transformer | | |
| Loop Voltage (Zone Input) | 5 VDC | | |
| Loop Current | 0.5 mA with max.15.1KOhm Line Resistance | | |
| Loop Resistance | N.C or 2.2 KOhm or 2.2+4.7 KOhm | N.C or 2.2 KHom or 2.2+4.7 KHom (low zones) or 2.2 +8.2 KOhm (high zones) | |
| Aux & Remote Power | 1 Fuse Outputs - 12VDC regulated | 2 Fuse Outputs - 12VDC regulated | |
| High Current Outputs (Siren) | 2 Controlled Outputs - 1.5 A @ 12 VDC & 300mA @ 12 VDC | 2 Controlled Outputs - 1.5 A @ 12 VDC | |
| Low Current Outputs | --- | 2 Controlled Outputs - 100mA@12 VDC | 6 Controlled Outputs - 100mA@12 VDC |
| Battery Charger | 13.8V with max 350 mA | | |
| Standby Panel Current | 68 mA (Battery), 75 mA RMS (AC Supply) | | |
| LED Keypad Standby Current | 36 mA (Battery), 39 mA (AC Supply) | | |
| LCD Keypad Standby Current | 59 mA (Battery), 70 mA (AC Supply) | | |
| Maximum No. of Keypads | 8 LED or LCD Keypad | | |
| Operating Temperature | -10°C ~ +60°C (+14°F ~ +140°F) | | |
| Metal Housing Dimensions | H= 260mm W= 303mm D= 81mm (10" x 12" x 3.15") | | |
| Plastic Housing Dimensions | H= 276mm W= 334mm D= 94mm (10.7" x 13" x 3.7") | | |
| LCD Keypad Dimensions | H= 135mm W= 146mm D= 33mm (5.3" x 5.7" x 1.3") | | |
| LCD Keypad Dimensions | H= 139mm W= 98mm D= 31.5mm (5.4" x 3.8" x 1.2") | | |
| LED Icon Keypad Dimensions | H= 133mm W= 75mm D= 31mm (5.2" x 2.9" x 1.2") | | |
| Battery Required | 12V 7AH Rechargable | | |
| Approvals | TBR/CTR21,CE,etc. | | |

## WINWAVE FULL UPLOAD/DOWNLOAD SOFTWARE PACKAGES

- User friendly Windows based Software
- Bell 103 and CCITT V21 formats supported



*The Powerwave series offer the most advanced and cost effective solutions for professional security installations*

# FREE WAVE SERIES

## PROFESSIONAL WIRELESS CONTROL PANELS

- Installation in no time
- Easy to Program and operate
- Compact design and large back-lit LCD display
- Up to 64 wireless zones and 4 hardwired zones
- Remote, local and mobile system control
- Advanced digital audio features for easy voice guided operation, message recording and playback as well as 2 way voice monitoring
- Operation free of false alarms and communication problems
- Integrated home automation and control
- Full supervision

## FREEWAVE FULLY SUPERVISED WIRELESS ACCESSORIES

### FREEWAVE WIRELESS PIR DETECTORS

- Asic Based Electronics
- Lithium Battery powered
- Outstanding catch performance
- Coverage up to 15 m (50') with 90° wide angle lens
- Pet immunity models available

### FREEWAVE WIRELES DOOR/WINDOW CONTACTS

- Magnetic door or window contact
- Lithium battery operated

### FREEWAVE WIRELESS SMOKE DETECTOR

- 9 V battery powered
- Low Battery indicator

### FREEWAVE REMOTE CONTROL WIRELESS KEYS

- 2 to 4 Programmable buttons
- Lithium battery powered
- User friendly system commands

### FREEWAVE WIRELESS GLASS BREAK DETECTOR

- Glass break and shock detection
- Detection range up to 12 m (40')
- Lithium battery powered

## FREEWAVE FEATURES

- Self contained wireless control panel with integrated 2 lines x 16 character large LCD display
- Up to 64 wireless zones
- Up to 4 hardwired zones
- 16 wireless keys
- Up to 3 partitions and 3 part set modes
- 24 user codes
- D-Link serial interface for easy local PC based programming
- WinWave Full upload/download software for system local or remote programming
- Supports Telephone, cellular, RF, VHF (UHF), domestic dial and personal paging communication
- Unique integral digital audio package including voice user instructions and messages, message recording and playback, 2 way voice monitoring
- 256 time and date stamped event memory
- EEPROM program backup module via serial port
- Full system status and program back up capability
- Multiple communication formats incl. Contact ID, 4+2, domestic and more
- Up to 6 programmable telephone numbers and 4 scenarios
- Fully supervised operation incl. Low battery, communication failure and RF Jamming
- Installation in next to no time
- RSSI supervised Wireless devices Location tests
- Based on Powerwave Series proven features and technology
- Up to 1.6 km (1 mile) Receiver range in free space
- Operating frequency : 433 MHz, 868 Mhz, 915 Mhz. Other frequencies upon request

*The Freewave systems offer supervision and outstanding features for professional wireless residential and commercial installations*

# MERLIN SERIES

## WIRELESS PIR DETECTORS & UNIVERSAL RECEIVER INTERFACES

The MERLIN is a unique wireless security system implementing Crow's expertise in the latest advancements of security electronics.

The MERLIN 1011 is a powerful ASIC based ultra low current wireless PIR detector which transmits radio frequency signals to the MERLIN 2080 universal receiver interface.

The system provides an up to 400 m (1300 ft) open space operating range under full supervision, a multi year life battery and many other powerful and user friendly features.

- 5 Year battery life
- Up to 400 m (1300 ft) open Space operating range
- Supervision
- Ultra low current consumption
- Full wireless information

## MERLIN 2080

### HIGH PERFORMANCE WIRELESS RECEIVER INTERFACES

Designed to convert any wired control panel into a wireless system, The merlin 2080 supports up to 8 channels. Two channels can be selected for door opening and flip flop functions.
A separate additional channel is provided for tamper.
Channel supervision, low battery alarm and tamper indications are provided on a 7 segment display and 4 leds.
Channel events are saved for user friendly retrieval at all times.

- Advanced microcontroller based electronics
- 8 channels
- Separate tamper output
- Event memory log
- Channel indication on a 7 segment display
- 4 Leds: low battery, alarm, tamper, and supervisor
- Door opening selectable channel
- Flip flop selectable channel
- Multiple frequencies available
- Supports any wired control panel

## MERLIN 1011

WIRELESS ULTRA LOW CURRENT ASIC BASED PIR DETECTOR

- Advanced ASIC based electronics
- 3.6 v Lithium battery powered
- 5 year battery life
- Ultra low current consumption
- Alarm power saver (APS)
- Sophisticated Supervisor
- Low battery transmission
- Multifunction push button for walk test
- And automatic transmission range test
- Selectable pulse count
- Automatic temperature compensation
- Unique interchangeable lenses with white light protection
- Maximum RFI & EMI protection

## MERLIN-MAG/MERLIN-GATE

WIRELESS Reed Switches

- 3.6 V Lithium battery powered
- Ultra low current consumption
- External switch input
- Pulse Counting in Merlin Gate

## MERLIN RMT2/4 WIRELESS REMOTE CONTROL UNITS

- 2 or 4 button remote units
- Lithium battery operated
- 2/4 channels

# MRX PLATINUM

## OUTDOOR DETECTION SERIES

### TRIPLE TECHNOLOGY MIRROR OPTICS SENSORS

The "MRX Platinum Series" offers a unique combination of varifocal mirrors, ASIC based electronics and durable enclosures for stable performance and reliability in various outdoor high security and CCTV applications.

The "MRX Platinum Series" includes unique triple technology sensors, combining twin dual element Pyro sensors and microwave technology for ultimate stability in harsh environment applications.

## MRX-300

SPECIAL "TRIPLE TECHNOLOGY" OUTDOOR DETECTOR FOR EXTREME OUTDOOR CONDITIONS

- Industrial grade polycarbonate housing and bracket for heavy duty installations
- Twin Dual Element PIRs plus MicroWave Sensor
- Tamper resistant bracket
- Dual axis tilt sensor for full antivandalism protection
- IP65 Rating
- Asic based electronics for ultimate performance and stability
- Greatest immunity against visible light and RFI /EMI sources
- Up to 40x30 m (133'x98') detection range with 90° Wide Angle Mirrors
- Up to 40 m (133') detection range with Long Range Mirrors
- Optional Pet Immunity Masks for mirrors 10,20,30 and up to 45 kg (22, 44, 66 and up to 99 lb.)
- Totally hidden wiring
- Exceptionally easy installation by simply pan, tilting and locking the unit to the alignment requirements

## MRX-220

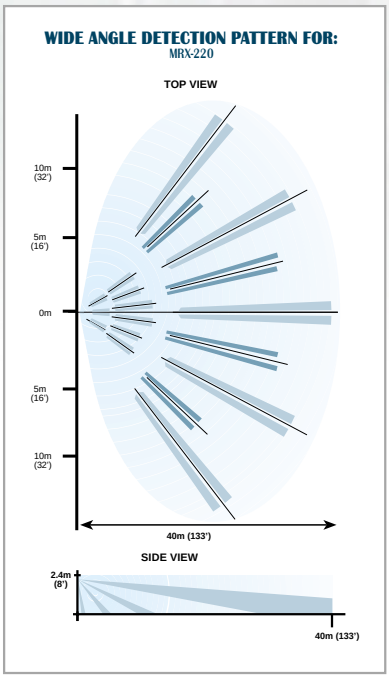
UNIQUE "TRIPLE TECHNOLOGY" OUTDOOR DETECTOR

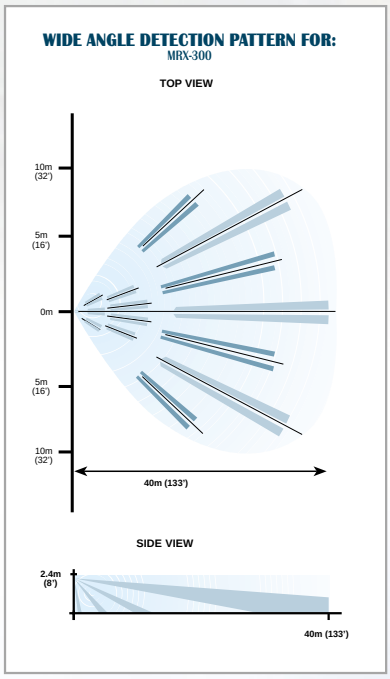
- Powerful Twin Dual Element PIR detector with Microwave for outstanding detection speed and false alarm immunity
- Sealed and Durable Housing for residential and commercial applications
- IP65 Rating
- Increased immunity against visible light and RFI/EMI sources
- Up to 40x40 m (133'x133') detection range with 105° Ultra Wide Angle Mirrors
- Up to 40 m (133') detection range with Long Range Mirrors
- Asic based electronics for ultimate performance and stability
- Optional Pet Immunity Masks for mirrors 10,20,30 and up to 45 kg (22, 44, 66 and up to 99 lb.)

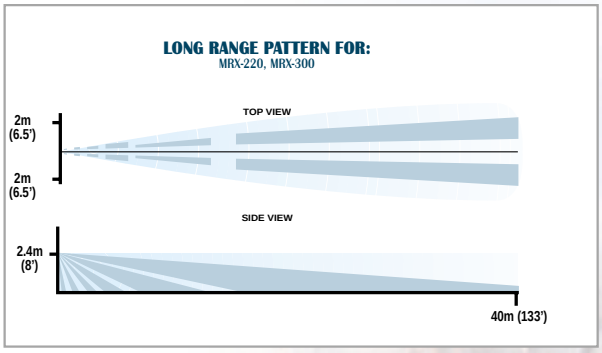
## MRL-150

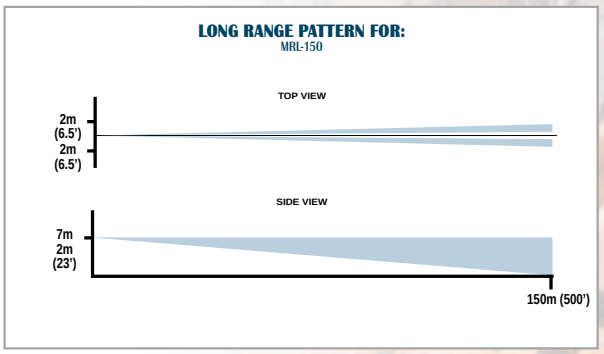
SPECIAL LONG RANGE TWIN MIRROR OUTDOOR SENSOR

- Powerfull industrial grade sensor
- Up to 150m (500ft) detection range
- Gold coated mirrors
- Integral Mounting Bracket
- Twin electronic processors and sensing devices
- ASIC based electronics for exceptional catch performance and reliability




| Features | | MRX-220 | MRX-300 | MRL-150 |
|---|---|---|---|---|
| Detection method | | DOUBLE DUAL PIR + MW | DOUBLE DUAL PIR + MW | DOUBLE DUAL PIR |
| Frequency - MicroWave | | 10.525GHz. 10.687GHz. 2.45GHz. Other frequencies upon request | | – |
| Mirror Optics | | | | |
| Wide Angle Field of View | | 105° | 90° | 90° |
| Wide Angle Coverage | | up to 40m x 40m (133' x 133') | up to 40m x 30m (133' x 98') | – |
| Long Range Coverage | | up to 40m x 3m (133' x 9.8') | | up to 150m x 4.5m (500' x 15') |
| Power Input | | 8.2 - 16 Vdc (12Vdc nominal) | | |
| RFI Protection | | 30V/m 10-1000 MHz | | |
| EMI | | 50,000V Lightning / Power through electrical interference | | |
| Operating Temperature | | -20°C to +50°C (-4°F to +122°F) | | |
| Dimensions | mm | 154 x 114 x 74 | 250 x 149 x 190 | 120 x 120 x 290 |
| | inch | 6.1 x 4.5 x 2.9 | 9.8 x 5.8 x 7.5 | 4.8 x 4.8 x 11.6 |
| Weight | gr. | 290 | 900 | 2100 |
| | oz. | 10.23 | 31.8 | 74 |

# CAB SERIES

## PHOTOELECTRIC BEAM SENSORS

The CAB Series offer different sets consisting of separate transmitters and receivers with accurate performance and reliability. The transmitter emits infrared rays creating an ideal barrier that surrounds the area to be protected. The alarm is determined by the interruption of the invisible infrared beam.

CAB-15F

CAB-15S

CAB-30T / 60T

CAB-90T / 120T

## CAB-15F / CAB-15S

SINGLE PHOTOELECTRIC BEAM SENSORS

- Detection Range: 30m (indoor)
- CAB-15 series with 2 options: CAB-15S (Surface Mount) & CAB-15F (Flush Mount)
- Horizontal and Vertical Angle Alignment
- 3 Step LED indicator for fast and accurate fine beam alignment
- Computer aid design with beautiful cosmetic and durable performance
- Circuit design with high surge resistance relay for stable operation

## CAB-30T / CAB-60T / CAB-90T / CAB-120T

TWIN PHOTOELECTRIC BEAM SENSORS

- With A.G.C. (automatic gain control) circuit
- Lightning protection
- Adjustable beam interruption period (50 msec - 700 msec)
- High grade lens creates more sharply defined and precise infrared beams
- Anti-frost design is incorporated to protect the detector from effect of frost and dew

| Features | | CAB-15F | CAB-15S | CAB-30T | CAB-60T | CAB-90T | CAB-120T |
|---|---|---|---|---|---|---|---|
| Detection Range: | Outdoor | up to 15 m (50ft ) | | up to 30 m (100ft) | up to 60 m (200ft) | up to 90 m (270ft) | up to 120 m (360ft) |
| | Indoor | up to 30 m (100ft ) | | up to 60 m (200ft) | up to 120 m (400ft) | up to 150 m (540ft) | up to 240 m (720ft) |
| Supply Voltage | | 10-28 VDC (non polarity) | | 10-30 VDC (non polarity) | | 10.5-28.5 VDC (non polarity) | |
| Detection System | | Photoelectric beam sensor | | Twin Photoelectric beam sensor | | | |
| Operating Temperature | | -25° to + 55° C (-13° to + 131° F) | | | | | |
| Weight | | 167 gr (5.9 oz) | 272 gr (9.6 oz) | 732 gr (25.8 oz) | | 1700 gr (60 oz) | |
| Dimensions: | mm | 70x120x45 | 70x131x56.5 | 73x170x70 | | 100x240x99 | |
| | inches | 2.7x4.7x1.8 | 2.7x5.2x2.2 | 2.8x6.7x2.7 | | 3.9x9.5x3.9 | |

# CSB SERIES

## INTELLIGENT OUTDOOR MICROWAVE BARRIERS

THE MICROWAVE BARRIERS CONSIST OF AN INVISIBLE CIGAR SHAPED PROTECTION BEAM GENERATED BETWEEN THE TRANSMITTER AND THE RECEIVER INSTALLED IN THE PROTECTED AREA. THE MICROWAVE BARRIERS ARE SUITED TO PROTECT HIGH RISK INSTALLATIONS SUCH AS AIRPORTS, FACTORIES, MILITARY SITES, ETC.

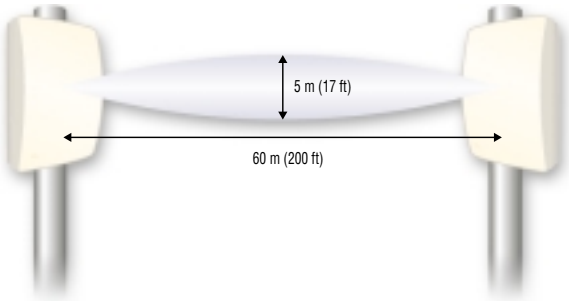
THE CSB OFFERS OUTSTANDING PERFORMANCE AT LONG DISTANCE RANGE AND HIGH RESISTANCE TO CLIMATIC DISTURBANCES, BIRDS OR SMALL ANIMAL INTERFERENCES.

THE CSB ALSO OFFERS DIGITAL SIGNAL ANALYSIS FOR COMPLETE ENVIRONMENTAL PARAMETERS STUDY, FALSE ALARM REJECTION AND EXTRA RELIABILITY.

THREE LEVELS OF SENSITIVITY ADJUSTMENT ARE PROVIDED FOR EASY CALIBRATION. SWIVEL MOUNTING BRACKETS ALLOW AN EASY INSTALLATION ON ANY TYPE OF POLE, FENCE OR WALL.

**TYPICAL COVERAGE PATTERNS**

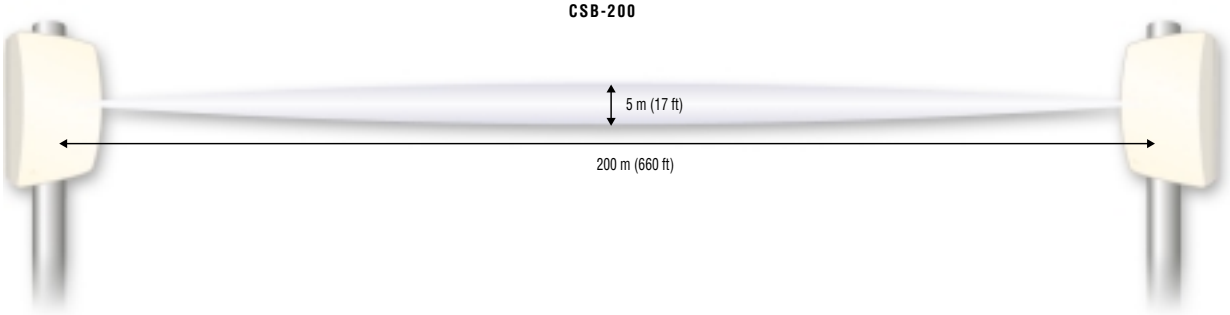
**CSB-60**




## CSB - 60 / 200

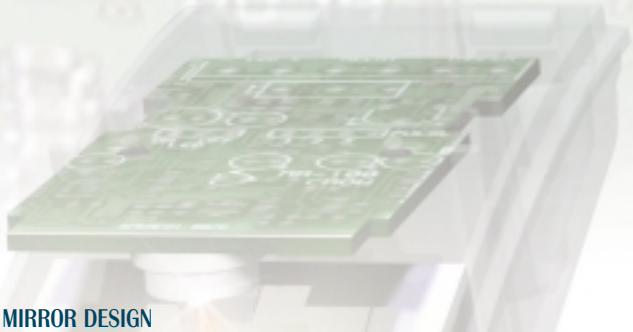
- DETECTION RANGE OF UP TO 60 M (200 FT) OR 200 M (660 FT)
- OPERATING TEMPERATURE -40° C TO +60° C (-40° F TO + 140° F)
- WEATHER AND ATTACK PROOF HOUSINGS
- HIGH IMMUNITY TO EMI
- POWER FAILURE PROTECTION AND BACKUP
- EXTRA RELIABILITY
- EASY CALIBRATION AND INSTALLATION
- MULTI-LEVEL SENSITIVITY ADJUSTMENT
- PROTECTION OF HIGH SECURITY AREAS
- SPECIAL INSTALLATION MOUNTING POLES AVAILABLE

**CSB-200**



# MR SERIES

## PROFESSIONAL MIRROR OPTICS PIR DETECTORS



Crow introduces a new line of PIR sensors at the forefront of detection technology for professional security applications. The MR Mirror Optics Series brings exceptional detection performance and reliability combined with an outstanding Mirror Optics design for ultimate space protection.

### PRECISION VARIFOCAL MIRROR DESIGN

Varifocal mirrors dramatically improve the focus and level of energy collected by the Pyro Sensor regardless of range.
The electronic gain of the detector is reduced and therefore the Signal to Noise ratio is optimized to virtually eliminate false alarms.
This design also provides an improved freedom from false alarms with its unprecedented level of immunity against visible light.

### ASIC BASED SIGNAL PROCESSING

The ASIC signal processing implemented in the MR series allows the detector to identify human movement with extreme accuracy, validate intrusions and program itself to cope with harsh environmental applications.

### EXCEPTIONAL STABILITY AND VERSATILITY

The MR series offers an unparalleled detection capability and stability for every security installation. It includes various models adapted to each type of installation, from the smallest device for curtain pattern protection to the most sophisticated sensors with Double PIR and Microwave, Pet Immunity, AntiMasking capabilities and more.

### EASY AND FAST INSTALLATION

The MR Series are supplied with a masking kit allowing the installer to customize the detection pattern according to the application requirements. Moreover, the installation height of the MR detectors is calibration free.

## MR-100/MR-110

COMPACT WIDE ANGLE DUAL ELEMENT PIR DETECTORS

- High Precision Mirror Optics with Look Down Zone
- 15 m (49') Detection Range with 90° Wide Angle Mirror
- Pet Immunity masks up to 10, 20, 30 or 40 kg (22, 44, 66 or 88 lbs) - selectable
- Automatic Temperature Compensation
- Sensitivity Adjustment
- MicroController Based Electronics (MR-110)
- Compact Design for Residential Installations

## MR-203/MR-207/MR-303

DUAL/QUAD ELEMENT ULTRA WIDE ANGLE PIR DETECTORS

- High Precision Mirror Optics with Look Down Zone
- Sealed Optics for Enhanced Stability against Air Movements and Insects Intrusion
- 15 m (49') Detection Range with 110° Ultra Wide Angle Mirror
- ASIC based Electronics for higher stability and rejection of unwanted interference
- Pet Immunity masks up to 10, 20, 30 or 40 kg (22, 44, 66 or 88 lbs)
- Sensitivity Adjustment (MR-303)
- Automatic Temperature Compensation
- True "S" interlocked Quad element sensor ( MR-207)
- Anti-Masking protection (optional on MR-303)

## MRX-800M/MRX-800Q

DUAL OR QUAD PIR AND MICROWAVE DETECTORS FOR ULTIMATE CATCH PERFORMANCE AND STABILITY

- High Precision Mirror Optics with Look Down Zone
- Dual or Quad Element Pyro Sensor
- Selectable MicroWave Sensitivity Control
- MicroWave Range Control
- X-Band MicroWave
- FET Oscillator
- 15 m (49') Detection Range with 110° Ultra Wide Angle Mirror
- Pet Immunity masks up to 10, 20, 30 or 40 Kg (22, 44, 66 or 88 lbs) - Selectable
- Automatic Temperature Compensation
- Ideal for Harsh Environmental Applications

## MR-22

DOUBLE DUAL ELEMENT MIRROR OPTICS PIR DETECTOR

- Unique Double Dual Element PIR and Double Mirror Optics for Superior Catch Performance in Harsh Environments
- Up to 25 m (82') Detection Range with Long Range Mirror
- ASIC based Electronics Design for Maximum Protection against False Alarms
- Pet Immunity masks up to 10, 20, 30 or 40 Kg (22, 44, 66 or 88 lbs) - Selectable
- Automatic Temperature Compensation
- Ideal for commercial applications

## MRX-22

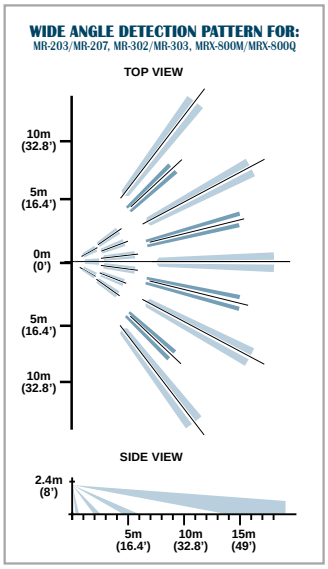
DOUBLE MIRROR OPTICS PIR & MICROWAVE DETECTOR

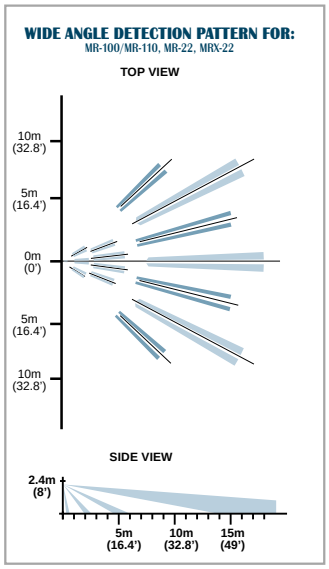
- Unique Triple Technology for Industrial Applications
- ASIC and MicroController Based Electronics Design for Outstanding Signal Processing and Highest Signal to Noise Ratio
- X-Band and FET Oscillator
- Up to 25 m (82') Detection Range with Long Range Mirror
- Pet Immunity masks up to 10, 20, 30 or 40 Kg (22, 44, 66 or 88 lbs) - Selectable
- Automatic Temperature Compensation

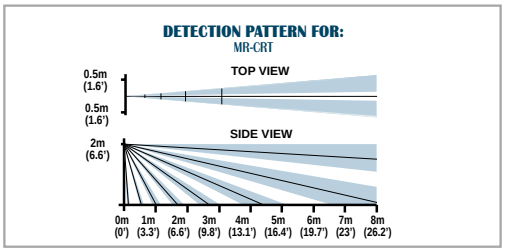
## MR-CRT

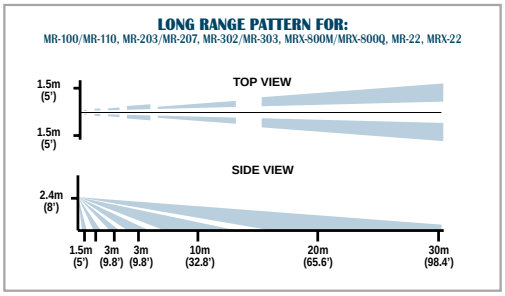
MIRROR OPTICS CURTAIN PIR PROTECTION IN EXTRA SMALL DESIGN

- High Precision Built-In sealed Mirror Optics
- 8 curtains of detection
- 8 m (26') detection range with full creep zone protection
- Automatic Temperature Compensation



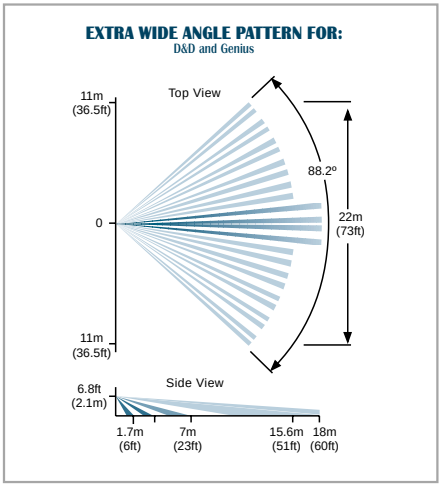
# SMART SERIES

## DOUBLE DUAL™ AND DOUBLE LINEAR IMAGING TECHNOLOGY SENSORS

## D&D

### WEATHER RESISTANT DOUBLE DUAL ELEMENT MOTION DETECTOR

- UNBEATABLE RELIABILITY IN HOSTILE ENVIRONMENTS
- OUTSTANDING CATCH PERFORMANCE
- IGNORES ANIMALS, BIRDS AND INSECTS
- LATEST ASIC TECHNOLOGY EMBEDDED
- AUTOMATIC TEMPERATURE COMPENSATION
- WHITE LIGHT IMMUNITY
- HIGH RF AND EM IMMUNITY



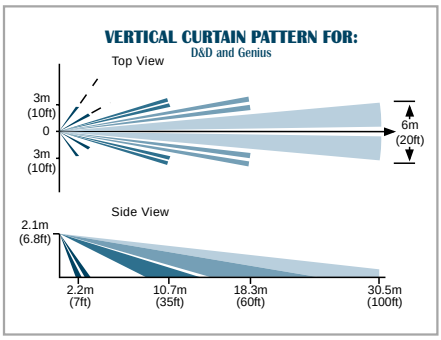

## GENIUS

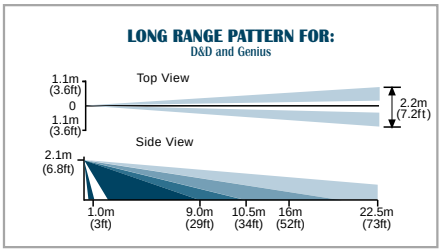
### DOUBLE DUAL ELEMENT MOTION DETECTOR

- "DOUBLE DUAL" OPTIC SYSTEM FOR 3D VISION AND EASY DIFFERENTIATION BETWEEN SMALL ANIMALS AND GENUINE INTRUDER
- ADVANCED ASIC BASED ELECTRONICS FOR SUPREME ACCURACY AND RELIABILITY
- AUTOMATIC TEMPERATURE COMPENSATION
- HIGH RF AND EM IMMUNITY
- ADAPTED FOR INSTALLATION IN HARSH ENVIRONMENTS

GENIUS

*Genius received the Product Achievement Award as BEST DETECTOR OF THE YEAR by the Security Industry Association (SIA) in 1996*



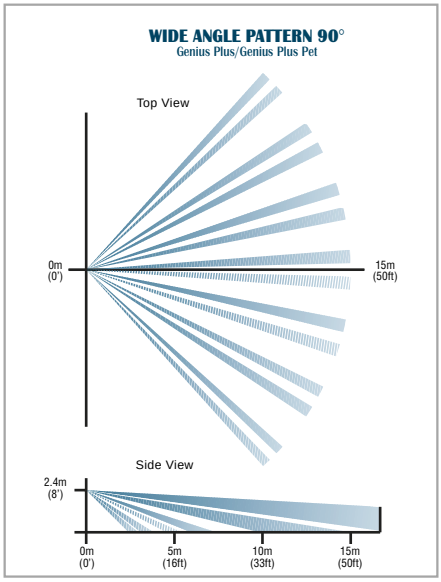




## GENIUS PLUS/GENIUS PLUS PET

### THE NEW GENIUS WITH DOUBLE LINEAR IMAGING TECHNOLOGY

GENIUS PLUS

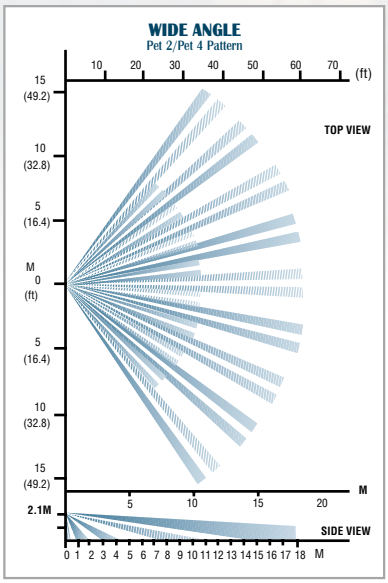
- DOUBLE QUAD LINEAR IMAGING TECHNOLOGY FOR SHARP ANALYSIS OF BODY DIMENSIONS AND DIFFERENTIATION FROM BACKGROUND AND ANIMALS
- UP TO 25 KG. (55 LB.) PET IMMUNITY IN GENIUS PLUS PET
- UP TO 5 KG. (11 LB.) PET IMMUNITY IN GENIUS PLUS
- SUPER COMPACT DESIGN
- LATEST ASIC TECHNOLOGY EMBEDDED
- AUTOMATIC TEMPERATURE COMPENSATION
- HIGH RF AND EM IMMUNITY
- ADAPTED FOR INSTALLATION IN HARSH ENVIRONMENTS



## PET 2

PET 2

- Dual element pyro sensor
- Hard type full pattern spherical lens and diffractive mirror for creep zones
- Variable pulse width adjustment
- Sensitivity adjustment
- Automatic temperature compensation
- Height installation calibration free from 1.5M to 3.6m (5ft to 12ft)
- Environmental immunity

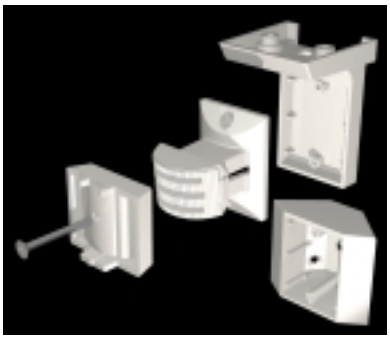



## PET 4

PET 4

- Hard spherical interchangeable lenses with LP filter for full immunity against visible light
- Optional black lenses with LP filter for industrial applications
- Diffractive reflection mirror for creep zones
- VLSI based electronics with movement speed spectrum analysis
- Unique dual & quad element pyro sensors for outstanding detection performance and elimination of false alarms
- Bi directional temperature compensation
- Height installation calibration free from 1.5m to 3.6m (5ft to 12ft)
- Environmental immunity
- Sensitivity adjustment
- Memory latch

**SWIVEL MOUNTING BRACKETS FOR WALL, CORNER AND CEILING INSTALLATION**



## PET PLUS

PET IMMUNITY LINEAR IMAGING PIR SENSOR

PET PLUS

- Quad Linear Imaging Technology for sharp analysis of body dimensions and differentiation from background and animals
- Up to 25 kg. (55 lb.) pet immunity
- Super compact design
- Latest asic technology embedded
- Automatic temperature compensation
- High rf and em immunity
- Detection Patterns - Refer to model Genius Plus / Genius Plus Pet (pg. 17)

## GENIUS 100

GENIUS 100

- Ultra high speed "intelligent" environmentally adaptive ASIC technology
- Ignores animals up to 45kg (99lbs) in size, without sacrificing catch performance thanks to the Pet Immunity Mask
- Requires no adjustments to operate in "pet friendly" mode
- Quick and easy calibration free installation
- Eliminates false alarms from birds, rats, mice and insects
- Detection Patterns - Refer to Model MR-22 (pg.16)

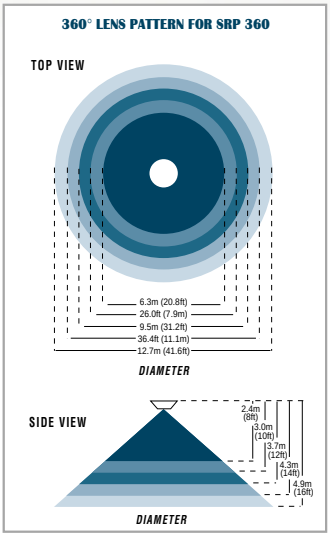
# CEILING MOUNT

SRP-360

## SRP-360

360° CEILING MOUNT PIR DETECTOR

- 360° / 12 m (40') diameter coverage when mounted at 3.6 m (12')
- Attack-proof hardened lens
- 4 Element sensor with range adjustment
- High immunity to fluorescent lights
- Rfi & emi interface

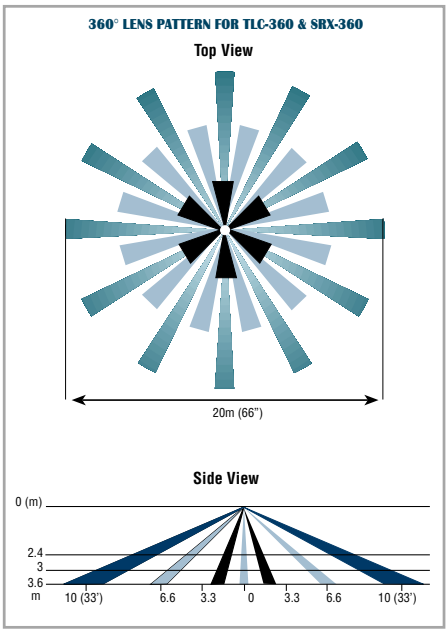


TLC-360

## TLC-360

360° CEILING MOUNT PIR DETECTOR

- Unique hard shell spherical lens
- 360° / 20 m (66') diameter coverage when mounted at 3.6 m (12')
- Ceiling Mounted Quad Element Pyro
- Complete Range Adjustment
- ASIC based Technology
- Fully sealed optical chamber
- Hard shell spherical lens
- Extra-wide rear wiring channel




NEW

SRX-360

## SRX-360

360° CEILING MOUNT PIR & MW SENSOR

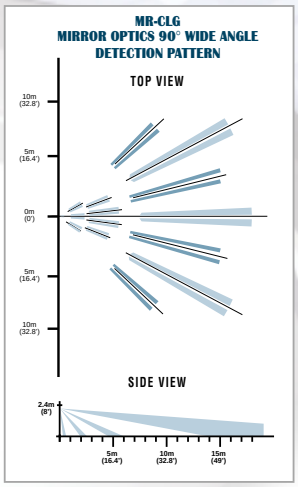
- PIR and Microwave sensor with 360° coverage pattern
- Up to 3.6 m (12ft) Mounting Height
- 360° / 20 m (66') diameter coverage when mounted at 3.6 m (12')
- Asic based Electronics
- Suited for harsh environments
- High RFI and EMI immunity
- Rodent Immunity

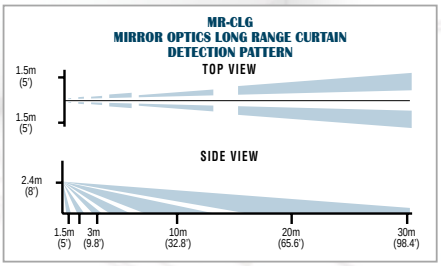
MR-CLG

## MR-CLG

### 90° MIRROR OPTICS CEILING MOUNT DETECTOR

- Dual element PYRO sensor and full pattern mirror for outstanding detection performance and elimination of false alarms
- Micro-Controller based electronics with movement speed spectrum analysis
- Installation height 2.4m to 8m (8ft to 26ft)
- Optional Pet Immunity
- PIR sensitivity setting
- Environmental immunity
- Fully sealed sensor chamber
- Maximum RFI & EMI Immunity
- Fluorescent light stability



MRX-360

ESPECIALLY DESIGNED FOR HARSH ENVIRONMENTS AND LARGE AREAS PROTECTION

## MRX-360

### 360° MIRROR OPTICS PIR AND MICROWAVE SENSOR

- Mirror Optics PIR and Microwave sensor with 360° coverage pattern
- 2.5 to 8 m (8 to 25 ft) mounting height
- 360° coverage / 50 m diameter (167ft) when mounted at 5 m (15ft)
- Asic based Electronics
- High RFI and EMI immunity
- Rodent immunity

# SRP/SRX SERIES

## PIR & DUAL TECHNOLOGY SENSORS

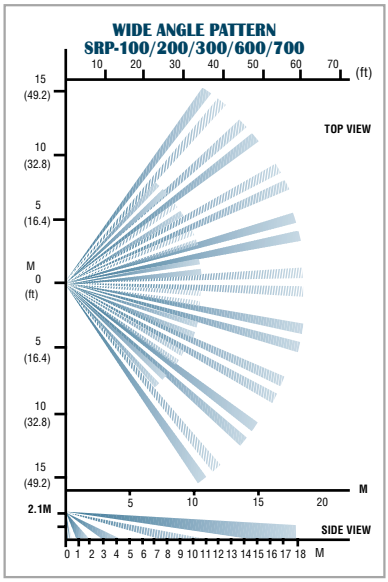
### THE CLASSICAL SRP SERIES FEATURES

- Adjustment free mounting from 1.5 m to 3.6 m (5' to 12')
- Bi directional automatic temperature compensation
- Latest ASIC based electronics with high reliability and outstanding catch performance in residential, commercial and industrial applications
- Environmental immunity
- User friendly installation with or without unique swivel mounting bracket
- Unique full range of sensors including PIR & Microwave combined sensors
- Wide range of lenses: wide angle, long range, animal alley, curtain, long range curtain

SRP-100/200/300

## SRP-100/200/300

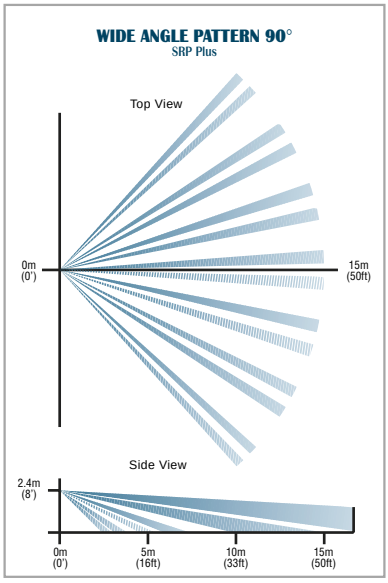
- Unique hard shell spherical lenses with look down zones
- ASIC based electronics in SRP-200/300
- Sensitivity adjustment in SRP-100/300
- Memory latch
- 18 m x 18 m (60' x 60') wide angle lens coverage



SRP-600/700

## SRP-600/700

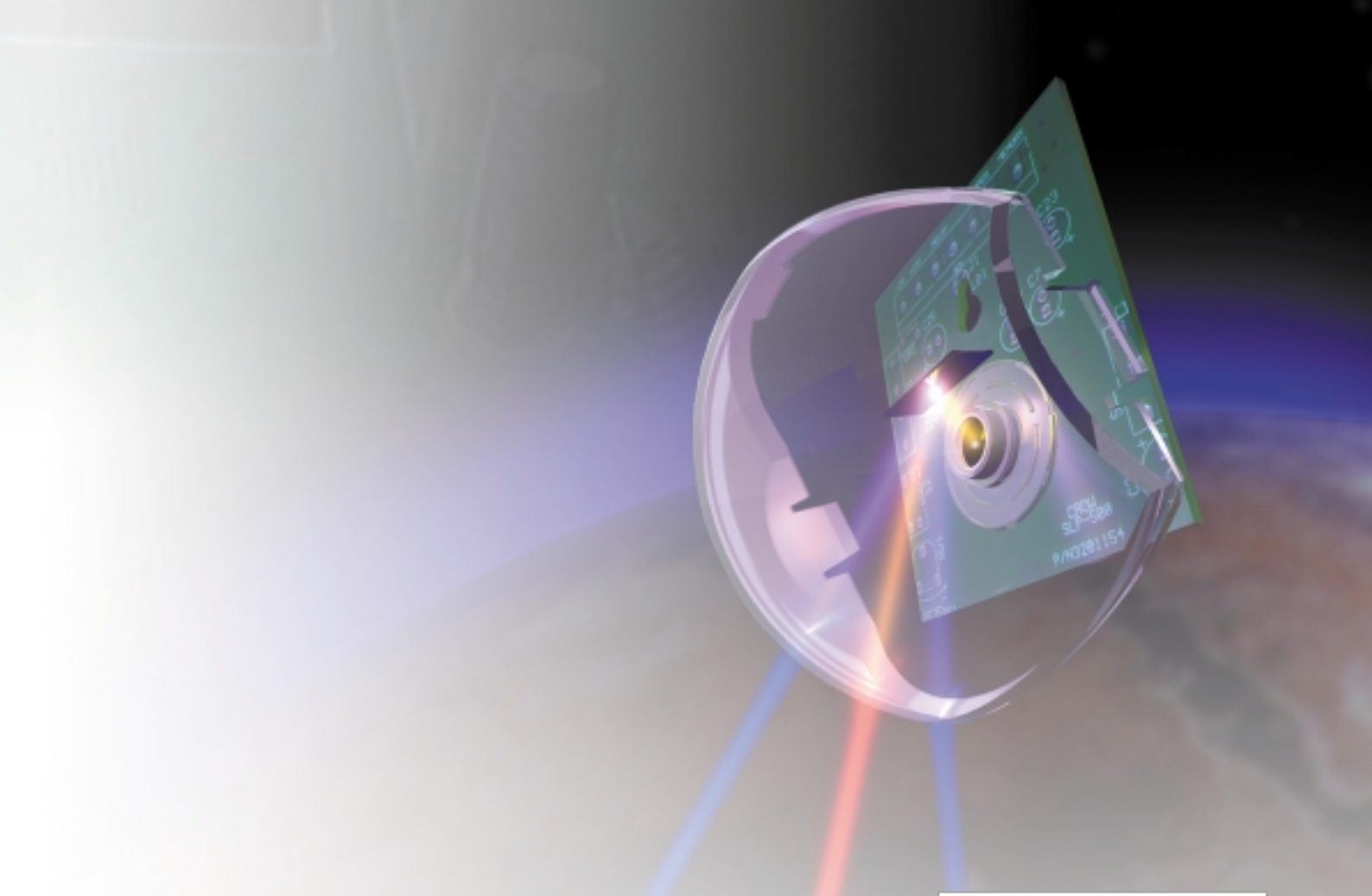
- Unique hard shell spherical lenses with look down zones
- ASIC based electronics
- Sensitivity adjustment
- Visible light filter for higher immunity to white light
- High RF and EM immunity
- 18 m x 18 m (60' x 60') wide angle coverage
- Quad element in SRP-700
- Optional black lenses with LP filter for industrial applications



SRP-PLUS

## SRP-PLUS

- ASIC based electronics
- Super compact design
- Ultra smart optics design for ultimate reliability and detection accuracy
- 15x15 m (50'x50') wide angle coverage
- High RF and EM immunity
- Ideal for residential applications



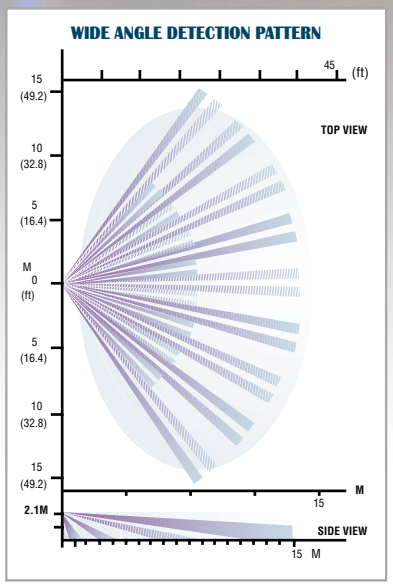
SRX-1000/SRDT-15
SRX-2000 A

## SRX-1000 / SRDT-15

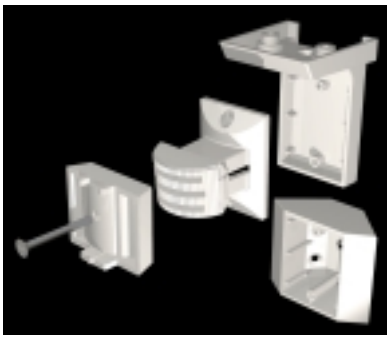
- ASIC based electronics
- PIR and microwave detection sensor
- Microwave sensitivity adjustment
- PIR sensitivity adjustment
- Digital microwave signal processing
- DRO microwave technology for outstanding reliability
- AND & OR alarm signal selection
- Microwave frequency
  SRX-1000: 10.525, 10.687, 9.9 GHz
  SRDT-15: 2.45 GHz

## SRX-2000 A

- PIR & microwave detector with antimask
- Hard shell spherical lens with LP filter with higher white light immunity
- Double dual PYO sensor
- PIR and microwave sensitivity adjustment
- Digital microwave signal processing
- DRO microwave technology for outstanding reliability
- MW frequency: 10.525, 10.687, 9.9 GHz




SWIVEL MOUNTING BRACKETS FOR WALL, CORNER AND CEILING INSTALLATION



# GBD/SRPG SERIES

## GLASS BREAK DETECTORS AND COMBINED PIR & GLASS BREAK SENSORS

GBD-I

## GBD-I

The GBD-I is a sophisticated glass break detector incorporating an audio analyzer for unprecedented detection. Its unique signal analysis ignores environmental disturbances and noises while responding quickly to the sound of breaking glass.

Advanced features include sensitivity adjustments and SMD electronics. The GBD-I can be wall or ceiling mounted and is designed to protect sites with large, small and multiple windows.

GBD-II

## GBD-II

The GBD-II is the ultimate answer for all those tired of false alarms. It listens for sounds of breaking glass which produces two sequential signals of different frequencies. The unique phased frequency detection circuitry of this detector allows detection of both shock signal and breaking glass signal creating a "false alarm free" glass break detector. The detector does not need to be attached to the window, providing volume protection and allowing you to protect several windows with one detector.

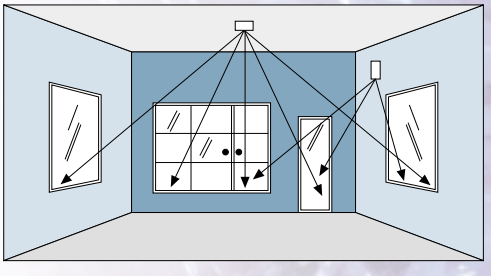
- Shock and/or breakage selectable
- Analyzes two frequencies
- Unique signal analysis ignores environmental disturbances
- Memory LED
- ASIC based electronics
- Sensitivity adjustments
- Ceiling or wall mount
- Operates in temperatures of -20° C to 50° C (-4° F to 122° C)

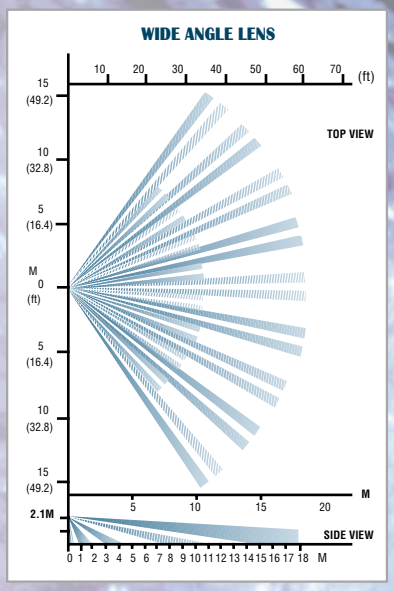
GBD-PLUS

## GBD-PLUS

NEW COMPACT GLASS BREAK DETECTOR

- GBD-II Electronics
- New Ultra Compact design
- Flush Mount installation - optional
- Outstanding detection range and reliability






## SRPG-I

The SRPG-I sensor combines a PIR sensor and a glass break detector. Installing such a sensor is much easier and cheaper than installing two independent detectors.

- Two detectors in one
- Dual element pyrosensor
- ASIC based technology
- Sensitivity adjustment
- Hard Shell Spherical lens
- Diffractive mirror for creep zones
- Curtain lens available

SRPG-I/II

## SRPG-II

The SRPG-II is a professional passive infrared & glass break detector combining functions of SRP-600 and GBD-II. The detection of both shock and glass break signals creates a "false alarm free" glass break detector. The SRPG-II does not need to be attached to window.

- Two detectors in one
- Dual element pyrosensor
- Hard shell spherical lens
- Diffractive mirror for creep zones
- Shock and breakage detection with separate sensitivity adjustments allowing the protection of several windows with one detector
- ASIC based electronics
- 2 separate relays for glass break and PIR
- Curtain lens available

# TALON SERIES

## PASSIVE INFRARED DETECTORS

The Talon Series of PIRs incorporates the exclusive Crow MicroPrism Lens, which provides uncompromising catch due to its unique design. Talon PIRs are as fast and reliable in detecting movement towards the detector as they are across the PIR zones. The Talon Series is an optimal choice for residential applications.

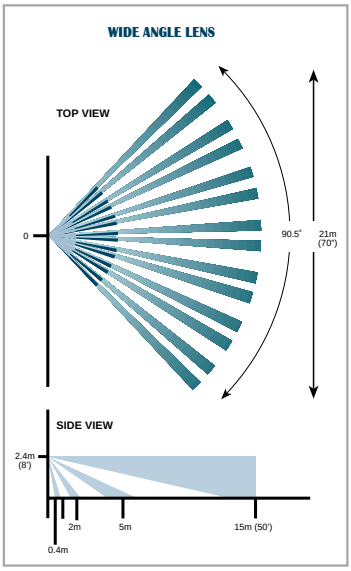
TLC-15/10

TLC-30/TLC QUAD

TLC-X/TLC-S

## TLC-15/10

- Unique attack-proof hard shell lens
- Ideal for residential applications
- Sensitivity adjustment
- Compact design
- SMD technology

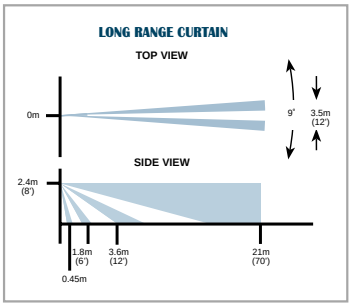



## TLC-30/TLC-QUAD

- Attack-proof hardened lens with wide angle and long range, all in one model
- Quad element PIR in TLC-Quad
- ASIC based electronics
- Sensitivity adjustment

## TLC-X/TLC-S

- PIR and Microwave detection for ultimate catch performance and stability
- Sealed Optics
- Draft / insect immunity
- Sensitivity adjustment
- ASIC based electronics




| Features | Specifications | TLC-S / TLC-X | TLC-15/10 | TLC-30 | TLC-QUAD |
|---|---|---|---|---|---|
| Detection method - PIR | | DUAL | DUAL | DUAL | QUAD |
| Frequency - Doppler | | 2.45GHz / 10.525GHz | | | |
| Range | Operating Range of Detection Zones Wide Angle Lens | 15 x 21m (50' x 70') | | | |
| | Operating Range of Detection Zones Long Range Lens | 21 x 3.5m (70' x 12') | | | |
| Pulse Count | Pulse Detection Options | 1, auto 2-3 | 1,2,3 | 1, auto 2-3 | 1, auto 2-3 |
| Temperature Compensation | Bi-Directional | X | X | X | X |
| Alarm Output | N.C 28VDC 0.1A with 10 Ohm Series Protection Resistor | X | X | X | X |
| RFI | 30V/m 10 - 1000MHz | X | X | X | X |
| EMI | 50,000V Of Electrical Interference From Lightning or Power Through | X | X | X | X |

# MINI PIRLite

Mini PIRLite

A unique miniature passive motion detector specially designed for energy management and security applications such as: garden lights, hotels, garage, parking, etc. When the PIR detects far infrared energy being emitted from human body crossing the detection area, the Mini PIRLite module activates the AC load (light) for predetermined duration (user's setting).

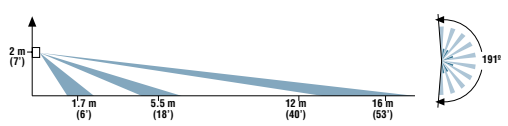
The Mini PIRLite features a rigid housing designed for operation in harsh environments.

- Unique asic signal proccesing
- Weather-proof & compact design
- Test mode function
- Wide detection angle
- Light on time adjustment
- Illumination intensity control
- Simple wiring & installation
- Output relay for 1000w loads
- Available with or without bracket

**Technical Specifications**

| | |
|---|---|
| Load activation type | Relay |
| Power supply | 50hz - 60hzh |
| Adaptable Ac load | Incandescennt lamp including<br>Halogen = 1000w (240v ac)<br>Fluorescent lamp = 250w (240V ac) |
| Power consumption | 1.0W |
| On-time | approx. 10 = 300Seconds |
| Ambient light intensity | approx. 5 = 120 Lux |
| Detection distance | approx. 12 m (frontal Direction) |
| Detectable Movement speed | 0.6 M/s = 1.5 M/s |
| Testing mode time (Cds defeat time) | 180 seconds |
| Detecting time | 4 seconds (after each detection) |
| Operating temperature | -20°C = 40°C |
| Operating humidity | max. 95% Rh |

**COVERAGE & LENS PATTERN**




The Mini PIRLite is designed to cover a very large detection area as 180° in the horizontal plane and 50° in the vertical plane with its unique wide-range fresnel lens.

# MR-CAM SERIES

## MIRROR OPTICS PIR DETECTOR + CAMERA + SMART VCR

A L L  I N  O N E

**MR-OutCam**
*Outdoor Installation*

**MR-InCam**
*Indoor Installation*

The MR-CAM Series offers a line of indoor and outdoor complete stand-alone CCTV systems including a CCD camera, a video compression engine, a Memory Card module, IR illuminators and a PIR detector, all in one housing.

The MR-CAM IN is designed for indoor installations, while the MR-CAM OUT with its exceptional anti-vandalism and weatherproof housing is suitable for any outdoor application.

When used as a stand-alone unit, the MR-CAM automatically records events on the memory card following an alarm. The alarm can be activated by an external open contact or by the internal PIR detector. To analyze the recorded events, the memory card can be removed from the MR-CAM unit and inserted in a Memory Card Reader connected to a PC.

A Remote Control unit enables you to activate/disactivate the automatic event recording process or to record an event manually.

*MR-CAM received the Product Achievement Award for CCTV by the Security Industry Association (SIA) in the 2001 New Product Showcase (NPS)*

## FEATURES

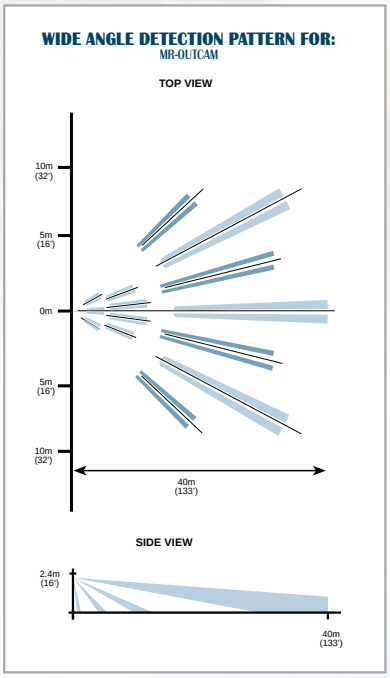
- Stand-alone integrated CCTV system packaged in a single housing
- MR-InCam for Indoor installations
- MR-OutCam for outdoor applications
- B/W camera (color optional)
- 2 relays for activation of external devices
- Automatic recording upon alarm
- Pre and post recording
- Records up to 6,000 images in a single memory card (Standard 8 MB Memory Card can contain up to 1000 recorded images, 32 MB card can contain up to 4000 images)
- Automatic setup using the Memory Card
- User defined image quality, frame rate, and recording time per event delay between frames, and more
- Remote Control unit
- Infra red Illuminators for night vision
- Exceptionally easy installation by simply pan, tilt and locking the unit to the alignment requirements
- No video cables required

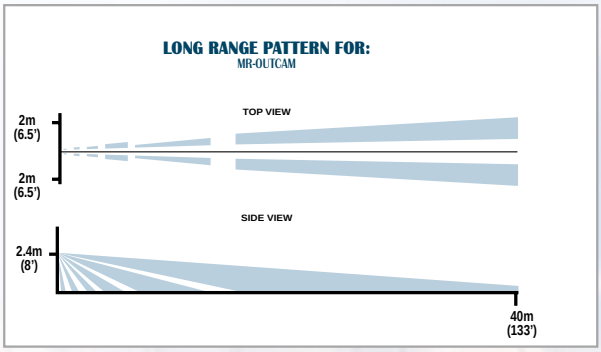
## BENEFITS

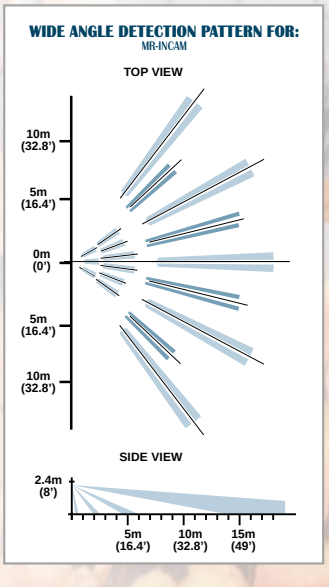
- The stand-alone MemoCam replaces the classic (Time Lapse VCR + PIR Detector +Camera) equipment set
- Modular CCTV solution from single camera to multiple site/multiple camera systems
- Economic system expansion
- No video cables required

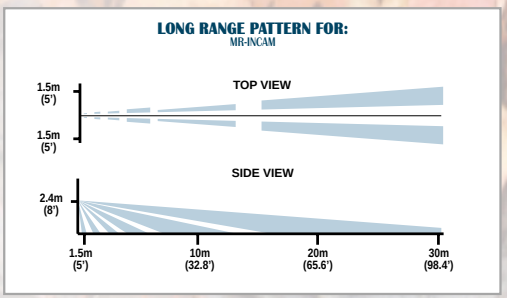
## APPLICATIONS

- Indoor and outdoor high security sites protection
- Recording of images and events where wire connections are impossible or difficult
- "Employee control" - Unattended automatic recording at any site
- Modular digital CCTV systems in places where the required number of attached cameras might increase
- Mobile applications



# ACCESS CONTROL SOLUTIONS

## STAND ALONE CONTROLLERS

SC-03

### SC-03 STAND ALONE PROXIMITY ENTRY SYSTEM

SC-03 suits best for single entrance protection. It was designed for both indoor and outdoor use. SC-03 is very convenient to install inside premises for single room access. Though small in size and easy to install it will be a professional doorkeeper:

- Only the 40 card (tag) holders will be allowed to enter
- Supports door contact
- Supports Request To Exit button
- Adjustable door open timing
- A step by step learning program will make it easier to manage (add or delete users) the controller's database and functions

SC-06

### SC-06 STAND-ALONE PROXIMITY ENTRY SYSTEM

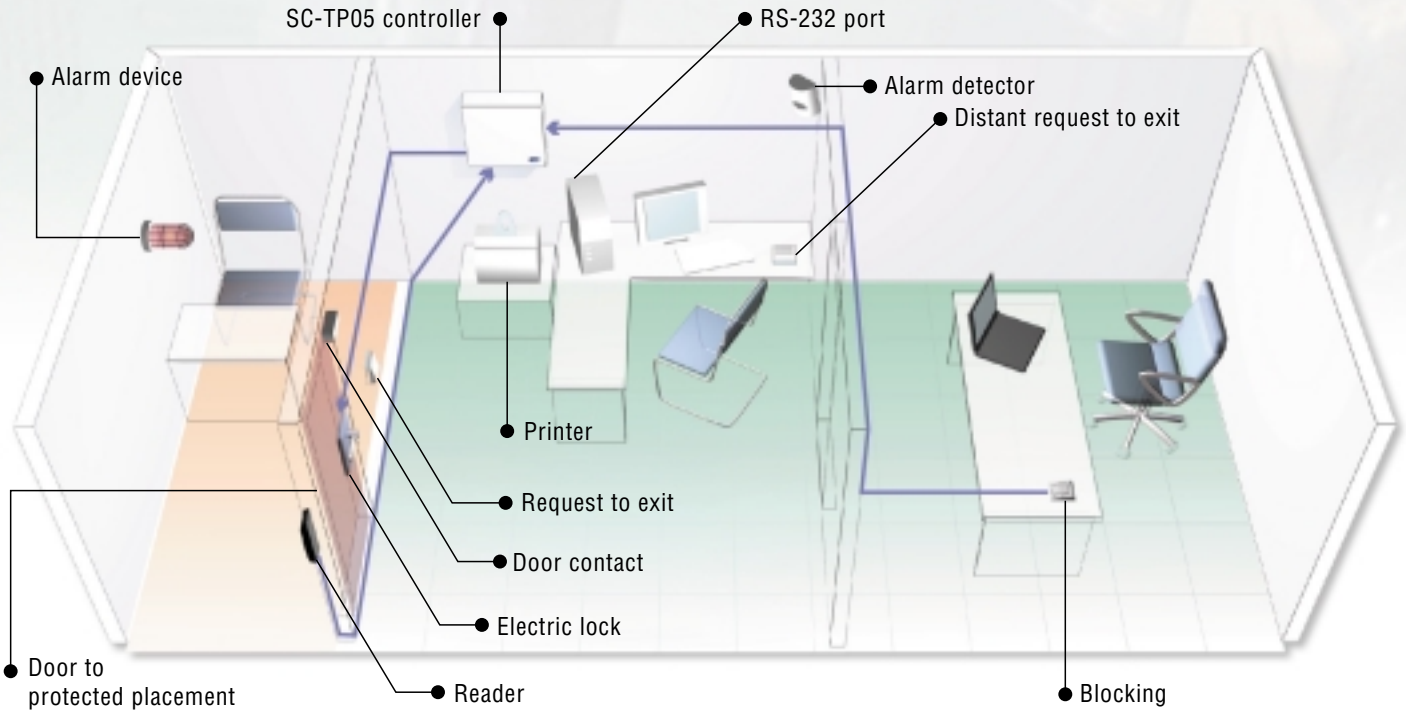
SC-06 is a sophisticated stand-alone Access control device, yet user friendly. It offers extended programming features, an up to 500 Users database and even some control panel capabilities.

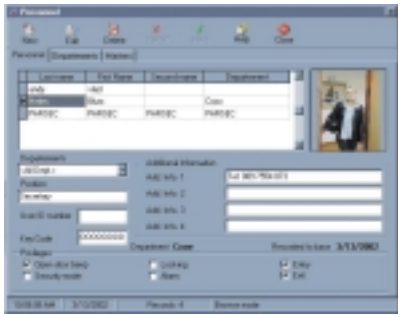
- The system provides access in one of three optional modes: by using proximity card (key-tag), PIN-code or both
- External reader option - to protect the controller itself from vandalism
- External detector connection - enables the control panel functions
- Door contact connection - provides warning signal if the door is left open
- Request to exit button - gives the ability to open the door from the inside from a distance

SC-04

### SC-04 STAND ALONE PROXIMITY ENTRY SYSTEM

This stand-alone access control system consists of an anti-vandal metal case designed for outdoor applications. It offers all SC-03 features.



SC-05

## PROXIMITY ENTRY SYSTEM WITH PC SUPPORT

SC-05 SOPHISTICATED STAND-ALONE ACCESS CONTROL SYSTEM WITH PC SUPPORT

This controller is a multi-function access control system with alarm control panel capabilities and attendance report.

- Two readers (entrance and exit) support
- Additional alarm devices support
- Stand-alone or PC controlled operations with MACS software
- Fast and flexible controller programming for any application
- Saves on hard disk: system configuration, user database and system events
- Generates events or attendance reports
- Software supports database transferring between access point controllers
- MACS can be installed on PC with MS Windows™

NETWORKING SYSTEMS

## NETWORKING SYSTEMS

- Professional on-line network access control system with unlimited access points number
- The built-in programmable relay allows the use of additional devices (e.g. siren)
- Protocol allows the connection of two readers to the controller with a three-wire cable and provides full readers monitoring
- AcNet for Windows software can support any number of work stations in standard Microsoft network

PROXIMITY CARDS
AND TAGS

## PROXIMITY CARDS AND TAGS

The AcTec readers support AcTec key-tags, AcTec proximity cards or other compatible cards and ID's.

# TX-WAVE

## SYNTHESIZED VHF TRANSCEIVERS

- Long Range Transceiver up to 35 Km (22 miles) range
- Available in UHF and VHF Frequencies
- Up to 9999 account numbers
- Programmable with Crow's RF software
- Compatible with PowerWave control Panels via RS232 or 6 Inputs on Board N.C or N.O.
- Low Battery supervision
- Ultra fast transmission speed

**Technical Specifications**

| | |
|---|---|
| Operating frequency range | 136.000 - 174.000 MHz |
| RF output power of transmitter | 4 W min @ 12.5 VDC |
| Spurious | at least 50 dB |
| Frequency Stability | ± 5 ppm |
| Modulation type | FSK |
| Band width | 10 kHz |
| Number of logical inputs | 6 |
| RF Data communication rate | 600 - 1200 bps |
| Serial communication I/O | RS232 |
| RS232 Data rate | 9600 bps |
| Operating temperature | -20ºC + 60ºC |
| Storage Temperature | -30ºC + 80ºC |
| Operating voltage range | 10.5 - 15 Volt DC |
| Operating Current | Tx - 1.2 A, Standby – 15 mA |
| Weight | 180 gr. |

# EXTERNAL SOUNDERS

- Innovative and Compact Design
- Self contained sounder and strobe unit
- 120 dB volume
- Flashing Light
- Twin or more piezo sounders
- Low Power consumption
- Frequency : 0.5 to 3 Khz
- High grade polycarbonate Housing
- IP65 Compatible sealed electronics
- Cover and Wall tamper (N.C.)
- Advanced SMD Technology
- Dimensions (HxWxD):
  280 x 195 x 100 mm (11" x 7.6" x 4")

THE CROW GROUP

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