

GSN *Electronic Company Ltd.*

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CATALOG



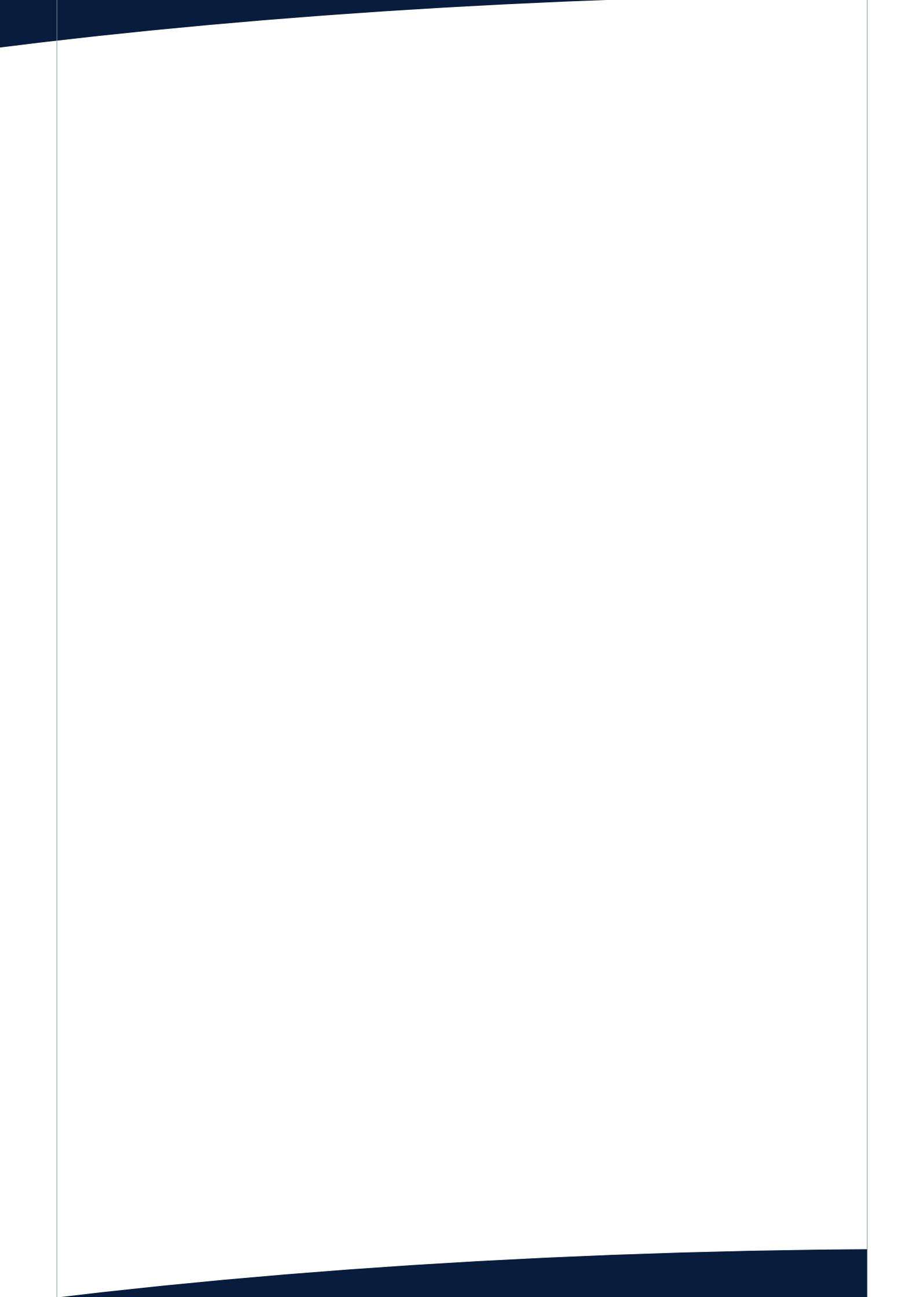
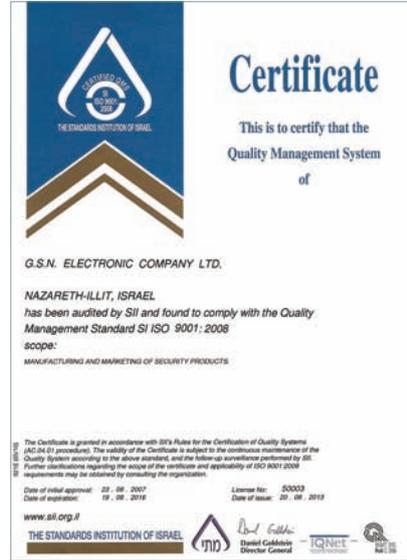


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GSN Electronic Company Ltd. is recognized in the global market as a leading developer and producer of security systems.

Our focus is the design and production of high-quality devices, capable of guaranteeing the most efficient security in a variety of applications—ranging from residential to large industrial premises.

During both design and develop stages, we adhere to the most stringent international standards, including: ISO 9001:2008 and RoHS Compliant certifications, as well taking into consideration the advice of experts and installers.

Despite the growing volume of overall production, our multistage management control system provides high-quality supervision; carefully checking each product at every stage of the technological process.

The introduction and application of unique and non-standard technical solutions and new algorithms, combined with extensive laboratory testing, greatly extends the functionality of our devices. The exclusive use of electronic components from the world's leading manufacturers, in addition to the latest quality control system, enables offering a 5-year warranty for the entire range of our products.

PRODUCTS AND TRADEMARKS OF GSN ELECTRONIC COMPANY LTD ARE COVERED BY ONE OR MORE OF THE FOLLOWING PATENTS IN DIFFERENT COUNTRIES IN THE WORLD:



ISRAELI PATENTS: N° 54330, 52738, 54390, 224400, 224398, 224399, 48417



RUSSIAN PATENTS: N° 88437, 488817, 475799



UKRAINIAN PATENTS: N° 27558, 187621, 187622, 187623



EUROPEAN PATENTS: 002503201-0001, 002503201-0002, 002503177-0001, 002503177-0002, 002275420-0001



CANADIAN PATENTS: N° 154848



JAPANESE PATENTS: N° 1489689



CHINESE PATENTS: N° ZL 2013 3 0348965.6, ZL 2013 3 0539123.9



PASSIVE INFRARED DETECTORS



COMBINED PASSIVE INFRARED & GLASS BREAK DETECTORS



COMBINED PASSIVE INFRARED & MICROWAVE DETECTORS



ACOUSTIC GLASS BREAK DETECTOR



ACOUSTIC SHOCK & GLASS BREAK DETECTOR



ACOUSTIC MULTILAYER GLASS BREAK DETECTOR



**COMBINED ULTRASONIC & MICROWAVE MOTION,
INTRUSION & DESTRUCTION DETECTOR**



UNIVERSAL BRACKETS

PATROL®

101 WEATHERPROOF CURTAIN PIR & MICROWAVE DETECTOR FOR OUTDOOR USE



Professional combined passive infrared and microwave detector with QUAD pyroelectric sensor, designed for outdoor areas and use in low-temperature environments up to -55°C (with heater), up to -30°C (without heater).

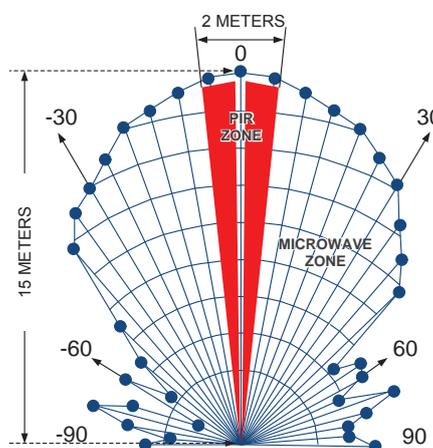
- ★ PATROL-101 creates a narrow protective curtain that allows free movement within the protected area without triggering the alarm.
- ★ PATROL-101 with anti-mask technology, to detect all types of masking attempts.
- ★ PATROL-101 provides pet-immune detection up to 30kg.

TECHNICAL SPECIFICATIONS

Input voltage	9-16VDC
Current consumption in standby mode	80mA
Current consumption in alarm mode	120mA
Heater input voltage	12 - 14V
Heater current consumption	700mA
Microwave frequency	10.525GHz
Anti-mask startup (boot) period	50 ± 5sec
Adjustable mask detection	0.2 - 20cm
Warm up period	50 ± 5sec
Detection range	15 meters
Detection speed range	0.2 - 4 m/sec
Relay output	NC/NO; 60V; 100mA; 16Ω
Tamper output	NC; 60V; 100mA; 16Ω
Anti-mask Relay output	NC/NO; 60B; 100mA; 16Ω
Anti-mask alarm activation delay	40-60sec
Pulse counter	1-5
Installation height	2.5 - 5 meters
Light immunity	no less than 30000 Lux
Operating temperature range:	
without heater	- 30°C +60°C
with heater	- 55°C +60°C
Storage temperature range	- 60°C +80°C
Protection rating	IP65
RFI immunity	30V/m at a frequency range 30MHz-2GHz
EMI immunity	50 000V
Dimensions	55mm x 49mm x 153mm
Weight	270gr

FEATURES

- DUAL TECHNOLOGY PIR & MICROWAVE
- QUAD ELEMENT PYRO SENSOR
- BUILT-IN HEATER
- SHOCK SENSOR
- ANTI-MASK PROTECTION
- DOPPLER PULSE-COUNT SELECTION (1-5)
- INDIVIDUAL PIR/MW/ANTI-MASK SENSITIVITY ADJUSTMENT
- IMMUNE TO PETS UP TO 30KG
- AUTOMATIC TEMPERATURE COMPENSATION
- VISIBLE LIGHT DISTURBANCE PROTECTION
- DOUBLE RFI/EMI PROTECTION
- WEATHERPROOF HOUSING



PATROL®

103 PET

COMBINED PIR & MICROWAVE DETECTOR
WITH PET IMMUNITY UP TO 25KG



Professional combined passive infrared and microwave detector with dual element pyrosensor provides the most efficient security of residential and industrial premises.

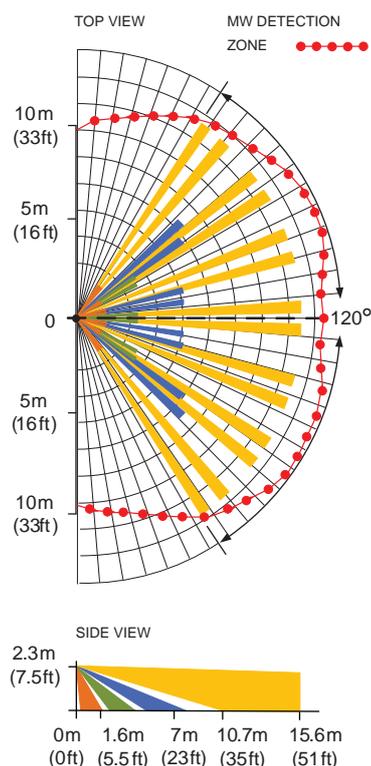
- ★ PATROL-103PET with dual technology provides stable detection and reduces false alarms.
- ★ PATROL-103PET includes a shock sensor to detect external attack (additional option).
- ★ PATROL-103PET provides pet-immune detection up to 25kg.
- ★ PATROL-103PET eliminates dead zones and ensures the best detection of infrared energy radiating from moving intruder in protected area.

TECHNICAL SPECIFICATIONS

Input voltage	9-16VDC
Current consumption in standby mode	17mA
Current consumption in alarm mode	55mA
Microwave frequency	10.525GHz
Warm up period	60sec
Detection range	15.6m x 120°
Detection speed range	0.3 – 3m/sec
Relay output	NC/NO; 60V; 100mA; 16Ω
Tamper output	NC; 60V; 100mA; 16Ω
Alarm period	3sec
Reset time	5 ± 1sec
PET mode	15/25kg
Pulse counter	1,2,3,4,5
Installation height	2.0 – 2.5m
Light immunity without sunshield filter	no less than 6500 Lux
Light immunity with sunshield filter	more than 30000 Lux
Operating temperature range	-30°C +60°C
Storage temperature range	- 50°C +80°C
RFI immunity: 30V/m at a frequency range	30MHz-1GHz
EMI immunity	50 000V
Dimensions	54mm x 34mm x 120mm
Weight	115gr

FEATURES

- DUAL TECHNOLOGY PIR & MICROWAVE
- HIGH-TECH DESIGN
- HIGH RFI & EMI IMMUNITY
- DIGITAL PROGRAM ALGORITHM OF SIGNAL PROCESSING
- BUILT-IN SHOCK SENSOR (ADDITIONAL OPTION)
- IMMUNE TO PETS UP TO 25KG
- DOPPLER PULSE-COUNT SELECTION (1-5)
- HIGH LIGHT IMMUNITY
- INDIVIDUAL PIR AND MW SENSITIVITY ADJUSTMENT
- LOW OPERATING TEMPERATURE
- AUTOMATIC TEMPERATURE COMPENSATION



PATROL®

105 PET

COMBINED PIR & MICROWAVE DETECTOR
WITH ANTI-MASK TECHNOLOGY AND PET IMMUNITY UP TO 25KG



Professional combined passive infrared and microwave detector with dual element pyrosensor provides the most efficient security of residential and industrial premises.

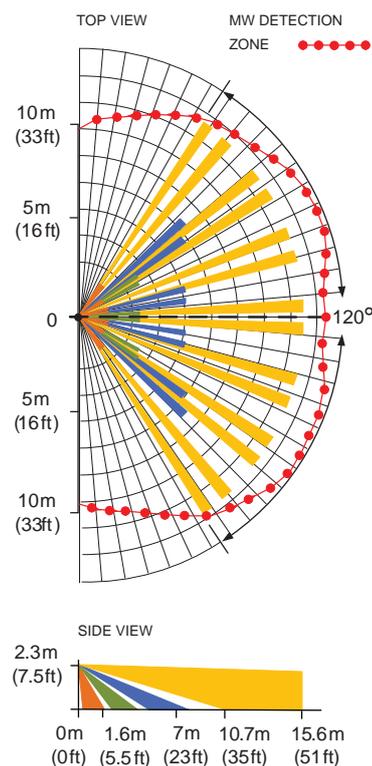
- ★ PATROL-105PET with dual technology provides stable detection and reduces false alarms.
- ★ PATROL-105PET with anti-mask technology detects all types of masking attempts.
- ★ PATROL-105PET includes a shock sensor to detect external attack.
- ★ PATROL-105PET provides pet-immune detection up to 25kg.
- ★ PATROL-105PET eliminates dead zones and ensures the best detection of infrared energy radiating from moving intruder in protected area.

TECHNICAL SPECIFICATIONS

Input voltage	9-16VDC
Current consumption in standby mode	83mA
Current consumption in alarm mode	125mA
Microwave frequency	10.525GHz
Anti-mask startup (boot) period	50 ± 5sec
Warm up period	60sec
Detection range	15.6m x 120°
Detection speed range	0.3 – 3m/sec
Relay output	NC/NO; 60V; 100mA; 16Ω
Tamper output	NC; 60V; 100mA; 16Ω
Alarm period	3sec
Reset time	5 ± 1sec
PET mode	15/25kg
Pulse counter	1,2,3,4,5
Installation height	2.0 – 2.5m
Light immunity without sunshield filter	no less than 6500 Lux
Light immunity with sunshield filter	more than 30000 Lux
Operating temperature range	- 30°C +60°C
Storage temperature range	- 50°C +80°C
RFI immunity	30V/m at a frequency range 30MHz-1GHz
EMI immunity	50 000V
Dimensions	54mm x 34mm x 120mm
Weight	115gr

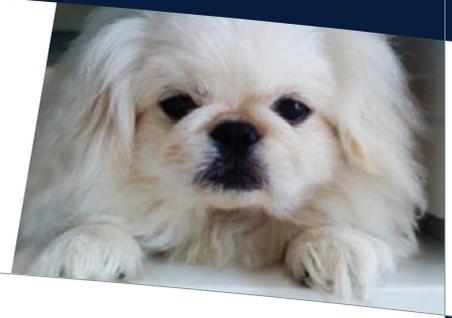
FEATURES

- DUAL TECHNOLOGY PIR & MICROWAVE
- HIGH-TECH DESIGN
- HIGH RFI & EMI IMMUNITY
- DIGITAL PROGRAM ALGORITHM OF SIGNAL PROCESSING
- BUILT-IN SHOCK SENSOR
- IMMUNE TO PETS UP TO 25KG
- DOPPLER PULSE-COUNT SELECTION (1-5)
- HIGH LIGHT IMMUNITY
- INDIVIDUAL PIR AND MW SENSITIVITY ADJUSTMENT
- LOW OPERATING TEMPERATURE
- AUTOMATIC TEMPERATURE COMPENSATION



PATROL[®] 203 PET

PASSIVE INFRARED DETECTOR
WITH PET IMMUNITY UP TO 20KG



Passive infrared detector with dual element pyrosensor provides the most efficient security of residential and industrial premises.

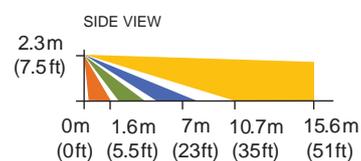
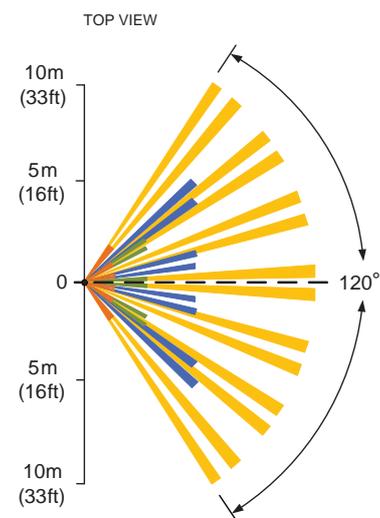
- ★ PATROL-203PET ignores pets up to 20kg and 1m height.
- ★ PATROL-203PET provides the most efficient security of residential and industrial premises.
- ★ PATROL-203PET eliminates dead zones and ensures the best detection of infrared energy radiating from moving intruder in protected area.

TECHNICAL SPECIFICATIONS

Input voltage	8.5-16VDC
Current consumption in standby mode	12mA
Current consumption in alarm mode	16.5mA
Warm up period	60sec
Detection range	15.6m x 120°
Detection speed range	0.3 - 3m/sec
Relay output	NC; 60V; 100mA; 16Ω
Tamper output	NC; 10Ω
Alarm period	3sec
Reset time	5 ± 1sec
PET mode	10/20kg
Installation height	2.0 - 2.5m
Light immunity without sunshield filter	no less than 6500 Lux
Light immunity with sunshield filter	more than 30000 Lux
Operating temperature range	- 30°C +60°C
Storage temperature range	- 50°C +80°C
RFI immunity	30V/m at a frequency range 30MHz-1GHz
EMI immunity	50 000V
Dimensions	54mm x 33mm x 99mm
Weight	75gr

FEATURES

- IMMUNE TO PETS UP TO 20KG
- HIGH-TECH DESIGN
- HIGH RFI & EMI IMMUNITY
- PIR SENSITIVITY ADJUSTMENT
- ANIMAL WEIGHT REGULATOR 10/20KG
- HIGH LIGHT IMMUNITY
- HERMETICALLY SEALED PYROELECTRIC SENSOR
- LOW OPERATING TEMPERATURE
- AUTOMATIC TEMPERATURE COMPENSATION



PATROL®

301 QUAD

PROFESSIONAL PASSIVE INFRARED
CURTAIN PIR DETECTOR

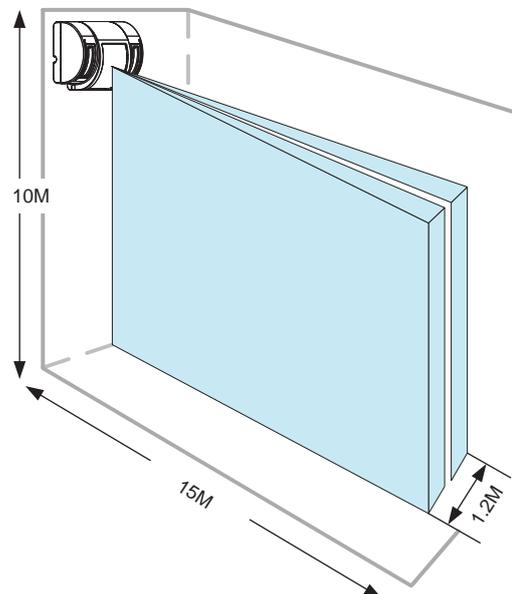


Passive infrared detector with QUAD element pyrosensor, designed to protect windows, doors and glass doors.

- ★ PATROL-301 QUAD creates curtain coverage up to 15m in length and 10m in height, enabling extremely accurate detection of humans in the protected area.
- ★ PATROL-301 QUAD ensures the unrivalled security level of windows, all-glass walls, doors and other openings protected in the detection zone.
- ★ PATROL-301 with QUAD PIR sensor excludes dead zones and ensures the best detection of infrared energy radiating from the moving intruder in an alarm-protected area.
- ★ PATROL-301 QUAD is the most elegant curtain PIR detector in the security market.

TECHNICAL SPECIFICATIONS	
Power input	8.5-16VDC
Current consumption:	
in stand-by mode	12.2mA
In alarm mode with LED on	13.2mA
In alarm mode with LED off	8.2mA
Pulse counter	1,2
Alarm period	3sec
Detection range	15m
Detection speed range	0.2 - 3m/sec
Installation height	up to 10m
Relay output	NC; 60V; 120mA; 17Ω
Warm up period	40 ± 1sec
Reset time	5 ± 1sec
Light immunity	no less than 10000 Lux
Operating temperature range	- 30°C +50°C
Storage temperature range	- 50°C +80°C
RFI immunity	30V/m at a frequency range 10MHz-1000MHz
EMI immunity	50 000V
Dimensions	75 x 66 x 49mm
Weight	106gr

- | FEATURES | |
|----------|--|
| • | QUAD PYROELECTRIC SENSOR |
| • | EXCELLENT LIGHT IMMUNITY - NO LESS THAN 10000 LUX |
| • | HIGH RFI & EMI IMMUNITY |
| • | MAXIMUM DETECTION RANGE - 15M |
| • | MAXIMUM INSTALLATION HEIGHT - 10M |
| • | DIGITAL MATHEMATICAL ALGORITHM OF SIGNAL PROCESSING |
| • | BIPOLAR PULSE COUNTER UNDER MICROPROCESSOR CONTROL |
| • | OPTOELECTRONIC SWITCH RELAY |
| • | SENSITIVITY SWITCH REGULATOR TO INCREASE THE "PATROL-301" RESISTANCE TO ALL KINDS OF ENVIRONMENTAL DISTURBANCES. |
| • | HERMETICALLY SEALED PYROELECTRIC SENSOR |
| • | LOW OPERATING TEMPERATURE |
| • | AUTOMATIC TEMPERATURE COMPENSATION |
| • | STYLISH DESIGN |



PATROL®

403 PET

DIGITAL PASSIVE INFRARED DETECTOR
WITH PET IMMUNITY UP TO 35KG



Passive infrared detector with dual element pyrosensor provides the most efficient security of residential and industrial premises.

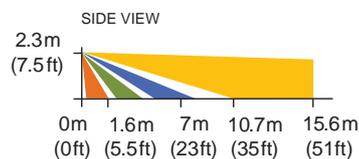
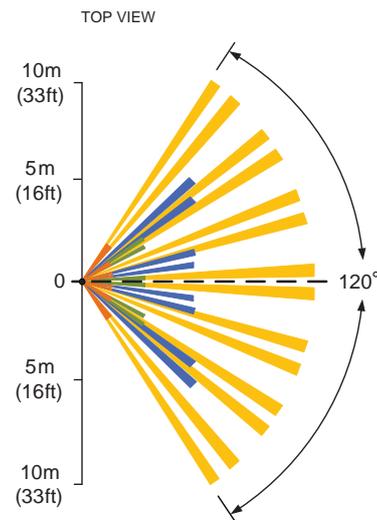
- ★ PATROL-403PET provides pet-immune detection up to 35kg and 1m height.
- ★ PATROL-403PET eliminates dead zones and ensures the best detection of infrared energy radiating from moving intruder in protected area.
- ★ PATROL-403PET provides the most reliable and stable operation in premises with extremely harsh environments, where the use of analog detectors is not reliable.

TECHNICAL SPECIFICATIONS

Input voltage	8.5-16VDC
Current consumption in standby mode	9.6mA
Current consumption in alarm mode	10.5mA
Warm up period	60сек
Detection range	15.6m x 120°
Detection speed range	0.3 - 3m/sec
Relay output	NC; 60V; 100mA; 16Ω
Tamper output	NC; 10Ω
Alarm period	3sec
Reset time	5 ± 1sec
PET mode	10/20/35kg
Pulse counter	1,2,3
Installation height	2.0 - 2.5m
Light immunity without sunshield filter	no less than 6500 Lux
Light immunity with sunshield filter	more than 30000 Lux
Operating temperature range	- 30°C +60°C
Storage temperature range	- 50°C +80°C
RFI immunity	30V/m at a frequency range 30MHz-1GHz
EMI immunity	50 000V
Dimensions	54mm x 33mm x 99mm
Weight	75gr

FEATURES

- IMMUNE TO PETS UP TO 35KG
- HIGH-TECH DESIGN
- HIGH RFI & EMI IMMUNITY
- BIPOLAR DETECTION TECHNOLOGY
- BIPOLAR PULSE COUNTER
- INDIVIDUAL PIR SENSITIVITY ADJUSTMENT
- ANIMAL WEIGHT REGULATOR 10/20/35KG
- HIGH LIGHT IMMUNITY
- HERMETICALLY SEALED PYROELECTRIC SENSOR
- LOW OPERATING TEMPERATURE
- AUTOMATIC TEMPERATURE COMPENSATION



PATROL[®] 501

DIGITAL ACOUSTIC GLASS BREAK DETECTOR



Developed to protect windows and glass doors within protected area.

Unique algorithm, based on two-channel recognition analysis of the characteristic frequencies and signal sequence of framed pane glass breakage:

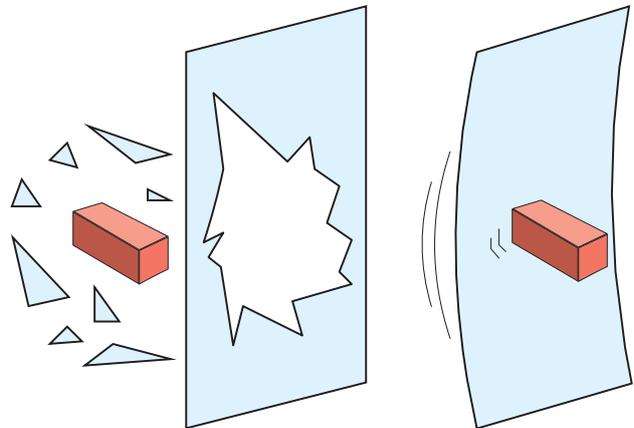
- ★ PATROL-501 recognizes particular sound patterns emitted by glass breakage.
- ★ PATROL-501 provides complete protection of different types of glass.
- ★ PATROL-501 uses unique algorithm, based on two-channel recognition analysis of the characteristic frequencies and signal sequence.
- ★ PATROL-501 provides excellent protection from false alarms in extremely harsh environments.
- ★ PATROL-501 the best solution for glass protection in security area.

TECHNICAL SPECIFICATIONS

Power input	9 - 16VDC
Current consumption:	
In stand-by mode	17.8mA
In alarm mode	18.7mA
Alarm period	3sec
Warm up period	2sec
Detection range	12m x 170°
Relay output	N.C; 60V; 100mA; 16Ω
Tamper	N.C. 10Ω
Microphone type	omnidirectional electret microphone
Operating temperature range	- 30°C +50°C
Storage temperature range	- 50°C +80°C
RFI immunity	30 V/m at a frequency range 10MHz-1000MHz
EMI immunity	50 000V
Dimensions	87 x 52 x 24mm
Weight	58gr

FEATURES

- HIGHLY SELECTIVE SENSITIVITY
- DUAL-CHANNEL DETECTION OF THE BREAK (IMPACT) / SOUND SIGNALS SEQUENCE
- DIGITAL MATHEMATICAL ALGORITHM OF SIGNAL PROCESSING
- EXTRAORDINARY IMMUNITY TO FALSE ALARMS
- STABLE OPERATION IN HARSH ENVIRONMENTS
- IDEAL PROTECTION FROM RFI AND EMI INTERFERENCES
- AUTOMATIC MICROPHONE OVERLOAD PROTECTION
- LAST EVENT MEMORY TIME: 30MIN
- DIFFERENT TYPES OF GLASS
- ELEGANT DESIGN THAT SUITS ANY INTERIOR



PATROL®

601 QUAD

PROFESSIONAL CURTAIN PIR & GLASS
BREAK DETECTOR



Combined passive infrared and acoustic glass break detector with QUAD element pyrosensor, designed for protection of windows, doors and glass doors.

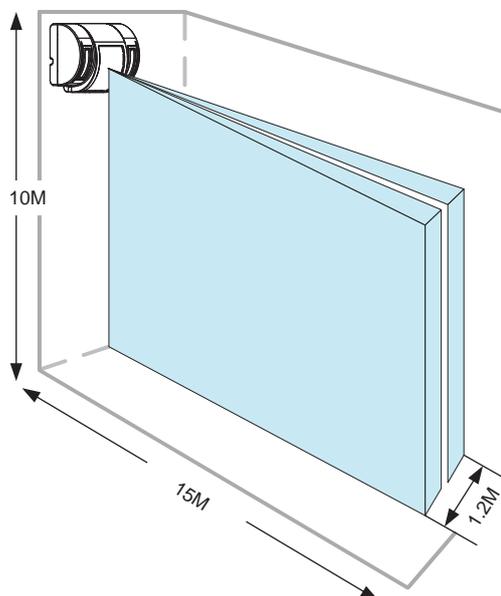
- ★ PATROL-601 QUAD incorporates two detection technologies, including PIR detector and glass break detector.
- ★ PATROL-601 with QUAD PIR sensor excludes dead zones and ensures the best detection of the infrared energy radiating from moving intruder in an alarm-protected area.
- ★ PATROL-601 QUAD has two microphones for best separation of frequency sound signals: Shock/Glass breakage.
- ★ PATROL-601 QUAD is the most elegant curtain-type PIR & Glass break detector in the security market.

TECHNICAL SPECIFICATIONS

Power input	8.5-16VDC
Current consumption:	
In stand-by mode	20mA
In alarm mode with LED on	21mA
In alarm mode with LED off	16mA
Pulse mode	1,2
Alarm period	3sec
PIR detection range	15m
Glass break detection range	15m x 180°
Detection speed range	0.2 - 3m/sec
Installation height	up to 10m
Relay output	NC; 60V; 100mA; 16Ω
Warm up period	50 ± 2sec
Reset time	5 ± 1sec
Light immunity	no less than 10000 Lux
Operating temperature range	- 30°C +50°C
Storage temperature range	- 50°C +80°C
RFI immunity	30 V/m at frequency range 10MHz-1000MHz
EMI immunity	50 000V
Dimensions	75 x 66 x 49mm
Weight	106gr

FEATURES

- QUAD PYROELECTRIC SENSOR
- EXCELLENT LIGHT IMMUNITY – NO LESS THAN 10000 LUX
- HIGH RFI & EMI IMMUNITY
- TWO MICROPHONES FOR FREQUENCY SEPARATION OF SOUND SIGNALS: SHOCK/GLASS BREAKAGE
- TWO OPTOELECTRONIC SWITCH RELAYS: PIR DETECTOR AND GLASS BREAK DETECTOR
- TWO INDEPENDENT TEST MODES: PIR DETECTOR ADJUSTMENT AND TESTING GLASS BREAK DETECTOR
- TWO SENSITIVITY REGULATORS: PIR DETECTOR AND GLASS BREAK DETECTOR
- DETECTION RANGE OF PIR DETECTOR – 15M
- DETECTION RANGE OF GLASS BREAK DETECTOR – 15M
- INSTALLATION HEIGHT – UP TO 10M
- DIGITAL MATHEMATICAL ALGORITHM OF SIGNAL PROCESSING
- AUTOMATIC MICROPHONE OVERLOAD PROTECTION
- IDEAL PROTECTION FOR DIFFERENT TYPES OF GLASS
- ELEGANT DESIGN THAT SUITS ANY INTERIOR



PATROL[®] 703 PASSIVE INFRARED DETECTOR WITH DUAL ELEMENT PYROSENSOR



Provides the most efficient security of residential and industrial premises.

- ★ PATROL-703 incorporates an efficient detection system, maximum protection from false alarms and a modern, elegant design.
- ★ PATROL-703 provides the most efficient security of residential and industrial premises.
- ★ PATROL-703 provides high protection from electromagnetic (EMI) and radio frequency (RFI) interference.

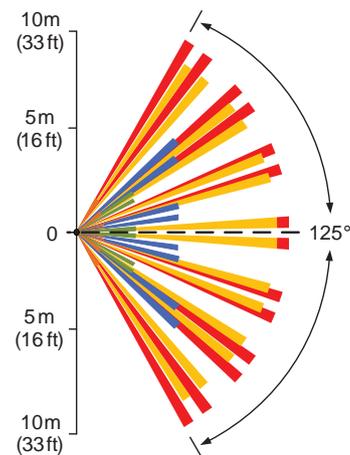
TECHNICAL SPECIFICATIONS

Input voltage	8.5-16VDC
Current consumption in standby mode	11mA
Current consumption in alarm mode	16mA
Warm up period	60sec
Detection range	15.6m x 125°
Detection speed range	0.3 - 3m/sec
Relay output	NC; 60V; 100mA; 16Ω
Tamper output	NC; 10Ω
Alarm period	3sec
Reset time	5 ± 1sec
Pulse counter	1 or 2
Installation height	2.0 - 2.5m
Light immunity without sunshield filter	no less than 6500 Lux
Light immunity with sunshield filter	more than 30 000 Lux
Operating temperature range	- 30°C +60°C
Storage temperature range	- 50°C +80°C
RFI immunity	30V/m at a frequency range 30MHz-1GH
EMI immunity	50 000V
Dimension	54mm x 33mm x 99mm
Weight	75gr

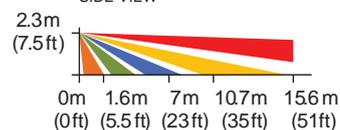
FEATURES

- HIGH-TECH DESIGN
- HIGH RFI & EMI IMMUNITY
- PULSE COUNTER 1 OR 2
- DETECTOR SENSITIVITY SWITCH REGULATOR
- OPTOELECTRONIC SWITCH RELAY
- HIGH LIGHT IMMUNITY
- HERMETICALLY SEALED PYROELECTRIC SENSOR
- LOW OPERATING TEMPERATURE
- AUTOMATIC TEMPERATURE COMPENSATION

TOP VIEW



SIDE VIEW



PATROL[®] 803

PROFESSIONAL COMBINED
PASSIVE INFRARED & GLASS BREAK DETECTOR

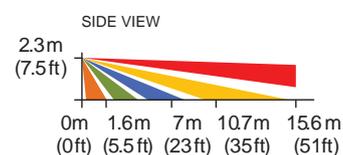
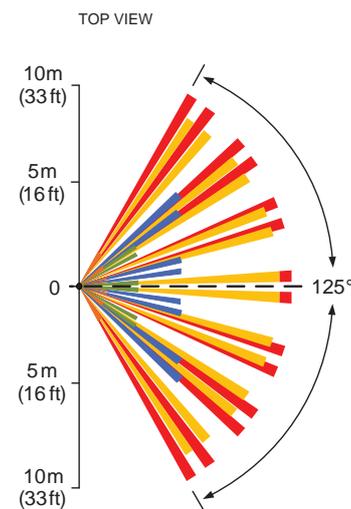


Combined passive infrared and acoustic glass break detector with dual element pyrosensor-provides the most efficient security of residential and industrial premises.

- ★ PATROL-803 incorporates two cutting edge detection technologies.
- ★ PATROL-803 analyzes the environment and detects the person's motion when crossing the infrared beam. Acoustic glass break detector identifies the sounds of glass and breakage.
- ★ PATROL-803 two independent optoelectronic relays allow connecting the detector in two independent zones in the control panel.
- ★ PATROL-803 enables an exceptionally reliable detection and stable "false alarms free" operation in unstable environments.

TECHNICAL SPECIFICATIONS	
Input voltage	8.5-16VDC
Current consumption in standby mode	17.7mA
Current consumption in alarm mode	19mA
Warm up period	60sec
PIR detection range	15.6m x 125°
PIR detection speed range	0.3-3m/sec
Glass break detection range	12m x 160°
Relay output	NC; 60V; 100mA; 16Ω
Tamper output	NC; 10Ω
Alarm period	3sec
Reset time	5 ± 1sec
Pulse counter	1 or 2
Installation height	2.0 - 2.5m
Light immunity without sunshield filter	no less than 6500 Lux
Light immunity with sunshield filter	more than 30000 Lux
Operating temperature range	- 30°C +60°C
Storage temperature range	- 50°C +80°C
RFI immunity	30V/m at a frequency range 30MHz-1GHz
EMI immunity	50 000V
Dimensions	54mm x 33mm x 99mm
Weight	82gr

- HIGH-TECH DESIGN
- DUAL TECHNOLOGY PIR & MICROPHONE
- HIGH RFI & EMI IMMUNITY
- DIGITAL PROGRAM ALGORITHM OF SIGNAL PROCESSING
- PULSE COUNTER 1 OR 2
- TEST MODE FOR TWO ACOUSTIC CHANNELS
- INDIVIDUAL PIR SENSITIVITY ADJUSTMENT
- HIGH LIGHT IMMUNITY
- HERMETICALLY SEALED PYROELECTRIC SENSOR
- LOW OPERATING TEMPERATURE
- AUTOMATIC TEMPERATURE COMPENSATION



PATROL® 803 PET

PROFESSIONAL COMBINED PASSIVE INFRARED & GLASS BREAK
DETECTOR WITH PET IMMUNITY UP TO 30KG



Combined passive infrared and acoustic glass break detector with pet immunity up to 30kg - provides the most efficient security of residential and industrial premises.

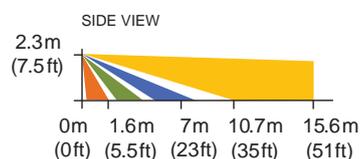
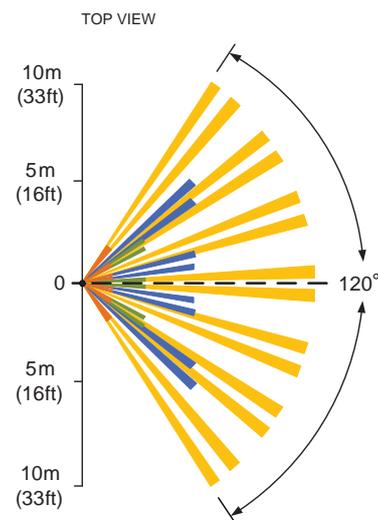
- ★ PATROL-803PET analyzes the environment and detects the person's motion when crossing the infrared beam. Acoustic glass break detector identifies the sounds of glass and breakage.
- ★ PATROL-803PET two independent optoelectronic relays allow connecting the detector in two independent zones in the control panel.
- ★ PATROL-803PET immune to pets up to 30kg and 1m height.
- ★ PATROL-803PET enables an exceptionally reliable detection and stable "false alarms free" operation in unstable environments.

TECHNICAL SPECIFICATIONS

Input voltage	8.5-16VDC
Current consumption in standby mode	17.7mA
Current consumption in alarm mode	19mA
Warm up period	60sec
PIR detection range	15.6m x 120°
PIR detection speed range	0.3-3m/sec
Glass break detection range	12m x 160°
Relay output	NC; 60V; 100mA; 16Ω
Tamper output	NC; 10Ω
Alarm period	3sec
Reset time	5 ± 1sec
PET mode	10/20/30kg
Installation height	2.0 - 2.5m
Light immunity without sunshield filter	no less than 6500 Lux
Light immunity with sunshield filter	more than 30000 Lux
Operating temperature range	- 30°C +60°C
Storage temperature range	- 50°C +80°C
RFI immunity	30V/m at a frequency range 30MHz-1GHz
EMI immunity	50 000V
Dimensions	54mm x 33mm x 99mm
Weight	82gr

FEATURES

- HIGH-TECH DESIGN
- DUAL TECHNOLOGY PIR & MICROPHONE
- HIGH RFI & EMI IMMUNITY
- DIGITAL PROGRAM ALGORITHM OF SIGNAL PROCESSING
- IMMUNE TO PETS UP TO 30KG
- TEST MODE FOR TWO ACOUSTIC CHANNELS
- INDIVIDUAL PIR SENSITIVITY ADJUSTMENT
- HIGH LIGHT IMMUNITY
- HERMETICALLY SEALED PYROELECTRIC SENSOR
- LOW OPERATING TEMPERATURE
- AUTOMATIC TEMPERATURE COMPENSATION



PATROL[®] 903 QUAD

PASSIVE INFRARED DETECTOR
FOR EXTREMELY HARSH ENVIRONMENTS

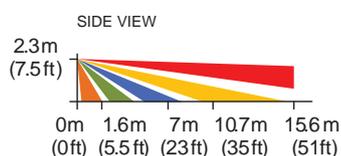
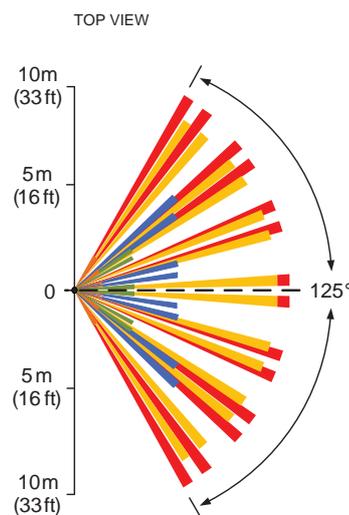


Professional passive infrared detector with QUAD element pyrosensor provides the most efficient reliable and stable operation in premises with extremely harsh environments.

- ★ PATROL-903 QUAD forms various segments of detection zones and enables exact focusing of IR energy from any detected area.
- ★ PATROL-903 QUAD highly protected from electromagnetic (EMI) and radio frequency (RFI) interference.
- ★ PATROL-903 QUAD applies the latest and most effective method of bipolar detection.
- ★ PATROL-903 QUAD provides the most reliable and stable operation in premises with extremely harsh environments, where the use of other detectors is not reliable.

TECHNICAL SPECIFICATIONS	Input voltage	8.5-16VDC
	Current consumption in standby mode	9.7mA
	Current consumption in alarm mode	10.5mA
	Warm up period	60sec
	Detection range	15.6m x 125°
	Detection speed range	0.3-3m/sec
	Relay output	H.3; 60B; 100mA; 16Ω
	Tamper output	H.3; 10Ω
	Alarm period	3sec
	Reset time	5 ± 1sec
	Pulse counter	1,2,3,4
	Installation height	2.0 - 2.5m
	Light immunity without sunshield filter	no less than 6500 Lux
	Light immunity with sunshield filter	more than 30000 Lux
	Operating temperature range	- 30°C +60°C
Storage temperature range	- 50°C +80°C	
RFI immunity	30V/m at a frequency range 30MHz-1GHz	
EMI immunity	50 000V	
Dimensions	54mm x 33mm x 99mm	
Weight	75gr	

- | FEATURES | • QUAD PYROELECTRIC SENSOR |
|----------|---|
| | • HIGH-TECH DESIGN |
| | • HIGH RFI & EMI IMMUNITY |
| | • BIPOLAR DETECTION TECHNOLOGY |
| | • BIPOLAR PULSES COUNTER |
| | • PIR SENSITIVITY ADJUSTMENT |
| | • HIGH LIGHT IMMUNITY |
| | • HERMETICALLY SEALED PYROELECTRIC SENSOR |
| | • LOW OPERATING TEMPERATURE |
| | • AUTOMATIC TEMPERATURE COMPENSATION |



GSN ELECTRONIC COMPANY -
AWARD WINNER IN 2014
FOR DEVELOPMENT
OF PATROL-USL DETECTOR



Professional shock and glass break detector, designed for those requiring a very high-level security in residences, offices and industrial premises.

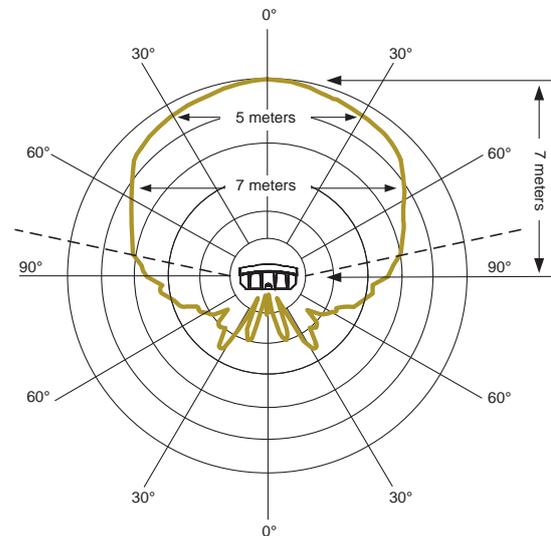
- ★ PATROL-USL combines sonic and ultrasonic progressive technology.
- ★ PATROL-USL seamlessly determines intrusion through walls, doors and all types of glass within protected area, in response to their destruction.
- ★ PATROL-USL provides reliable protection in protected zones, where other shock and acoustic glass break detectors are not reliable.
- ★ PATROL-USL operates in environments under low and very high temperatures.
- ★ PATROL-USL with dual technology provides stable detection and excludes false alarms.

TECHNICAL SPECIFICATIONS

Input voltage	9-16VDC
Current consumption in standby mode	43.2mA
Current consumption in alarm mode	48.3mA
Warm-up period	30sec
Alarm period	3sec
Ultrasonic channel operating frequency	40kHz
Installation height	2 - 2.5m
Detection range	7m
Maximum protected volume	200m ³
Detection angle	170°
Relay output	NC; 60V; 120mA; 16Ω
Tamper output	NC; 10Ω
Operating temperature range	- 30°C +70°C
Storage temperature range	- 50°C +85°C
RFI immunity	30V/m at a frequency range 10MHz - 2GHz
EMI immunity	50 000V
Dimensions	105mm x 50mm x 22mm
Weight	80g

FEATURES

- INNOVATIVE METHOD DETECTION OF ACOUSTIC SIGNALS
- COMPLETE PROTECTION OF ALL TYPES OF WALLS, DOORS AND GLASS
- DIGITAL SPECTRAL ANALYSIS OF SOUND AND ULTRASONIC FREQUENCIES
- HIGHLY SELECTIVE SENSITIVITY OF LOW FREQUENCY SOUND CHANNEL
- TWO OPERATING MODES
- SEPARATE ADJUSTMENT FOR BOTH ULTRASONIC AND LOW-FREQUENCY SOUND CHANNEL SENSITIVITY
- HIGH RFI/EMI PROTECTION
- AUTOMATIC GAIN CONTROL - ADAPTATION TO ENVIRONMENTAL CHANGES



PATROL[®] USR

★ NEW EXCLUSIVE PRODUCT IN THE SECURITY MARKET ★

ACOUSTIC MULTILAYER GLASS BREAK DETECTOR



Professional acoustic multilayer glass break detector, designed for those requiring a very high level of security in residences, offices and industrial premises.

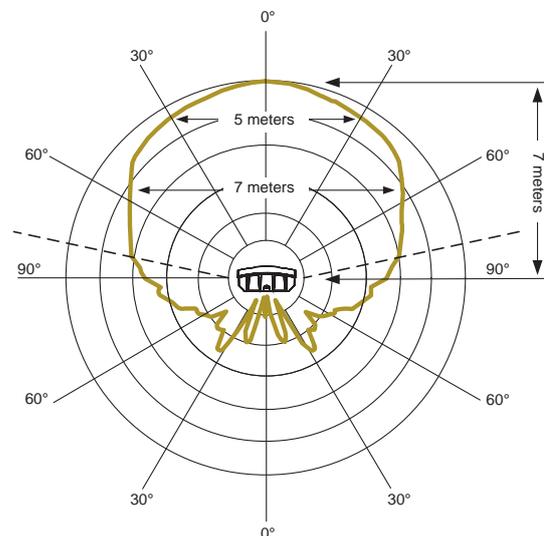
- ★ PATROL-USR combines sonic and ultrasonic progressive technology.
- ★ PATROL-USR recognizes breakage of all known multi-layered glass types that hold together when shattered.
- ★ PATROL-USR provides reliable protection of multilayer glass and glass blocks where conventional glass break detectors are not reliable.
- ★ PATROL-USR operates in environments under low and very high temperatures.
- ★ PATROL-USR with dual technology provides stable detection and excludes false alarms.

TECHNICAL SPECIFICATIONS

Input voltage	9-16VDC
Current consumption in standby mode	37.3mA
Current consumption in alarm mode	42.2mA
Warm-up period	30sec
Alarm period	3sec
Ultrasonic channel operating frequency	40kHz
Installation height	2 - 2.5m
Detection range	7m
Maximum protected volume	200m ³
Detection angle	170°
Relay output	NC; 60V; 120mA; 16Ω
Tamper output	NC; 10Ω
Operating temperature range	- 30°C +70°C
Storage temperature range	- 50°C +85°C
RFI immunity	30V/m at a frequency range 10MHz - 2GHz
EMI immunity	50 000V
Dimensions	105mm x 50mm x 22mm
Weight	80g

FEATURES

- INNOVATIVE METHOD DETECTION OF ACOUSTIC SIGNALS
- COMPLETE PROTECTION OF ALL KNOWN GLASS TYPES INCLUDING INSULATED GLAZING AND GLASS BLOCKS
- DIGITAL SPECTRAL ANALYSIS OF SOUND AND ULTRASONIC FREQUENCIES
- HIGHLY SELECTIVE SENSITIVITY OF HIGH FREQUENCY SOUND CHANNEL
- TWO OPERATING MODES
- SEPARATE ADJUSTMENT FOR BOTH ULTRASONIC AND HIGH-FREQUENCY SOUND CHANNEL SENSITIVITY
- HIGH RFI/EMI PROTECTION
- AUTOMATIC GAIN CONTROL - ADAPTATION TO ENVIRONMENTAL CHANGES



**GSN ELECTRONIC COMPANY -
AWARD WINNER IN 2014
FOR DEVELOPMENT
OF PATROL-USR DETECTOR**

PATROL[®] USM

★ NEW EXCLUSIVE PRODUCT IN THE SECURITY MARKET ★

COMBINED ULTRASONIC & MICROWAVE MOTION,
INTRUSION & DESTRUCTION DETECTOR

GSN ELECTRONIC COMPANY -
AWARD WINNER IN 2014
FOR DEVELOPMENT
OF PATROL-USM DETECTOR



Professional Patrol-USM, designed for those requiring a very high level of security in residences, offices and industrial premises.

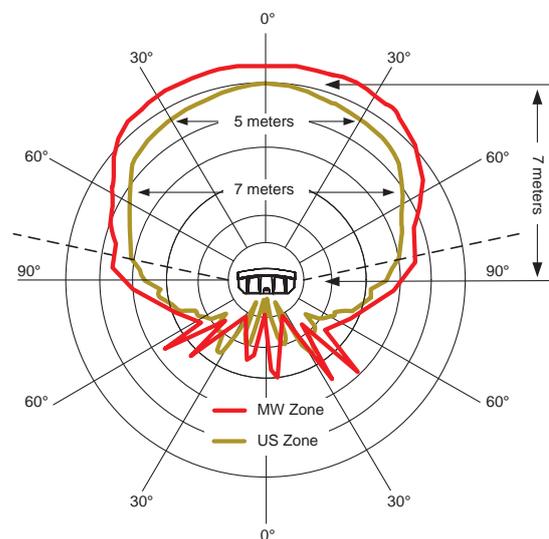
- ★ PATROL-USM combines ultrasonic and microwave progressive technology.
- ★ PATROL-USM determines motion, intrusion and destruction of walls, doors and all types of glass in protected area.
- ★ PATROL-USM provides unprecedented protection of objects, where standard PIR and combined PIR & Microwave detectors are not reliable.
- ★ PATROL-USM operates in environments under low and very high temperatures.
- ★ PATROL-USM with dual technology provides stable detection and excludes false alarms.

TECHNICAL SPECIFICATIONS

Input voltage	9-16VDC
Current consumption in standby mode	44mA
Current consumption in alarm mode	95mA
Warm-up period	30±5sec
Alarm period	3sec
Ultrasonic channel operating frequency	40kHz
Microwave channel operating frequency	24GHz
Pulse counter	1-7
Installation height	2 - 2.5m
Detection range	7m
Maximum protected volume	200m ³
Detection angle	170°
Relay output	NC; 60V; 120mA; 16Ω
Tamper output	NC; 10Ω
Operating temperature range	- 30°C +70°C
Storage temperature range	- 50°C +85°C
RFI immunity	30V/m at a frequency range 10MHz - 2GHz
EMI immunity	50 000V
Dimensions	105mm x 50mm x 22mm
Weight	80gr

FEATURES

- UNPRECEDENTED PREMISES PROTECTION
- STABLE OPERATION IN A WIDE-RANGING TEMPERATURE ENVIRONMENT
- INNOVATIVE METHOD DETECTION OF ULTRASONIC AND MICROWAVE SIGNALS
- DIGITAL SPECTRAL ANALYSIS OF ULTRASONIC AND MW FREQUENCIES
- PULSE-COUNTER (1-7)
- SEPARATE ADJUSTMENT FOR BOTH ULTRASONIC AND MW CHANNEL SENSITIVITY
- HIGH RFI/EMI PROTECTION
- TAMPER PROTECTION
- AUTOMATIC GAIN CONTROL - ADAPTATION TO ENVIRONMENTAL CHANGES



UNIVERSAL BRACKETS MODELS

UBL-1110 ★ UBL-1112 ★ UBL-1115

UBL-1110, UBL-1112, UBL-1115 - Universal brackets designed for installing any type of PIR detectors in corners on walls or ceiling.

- ★ A distinguishing feature of the brackets: inner duct which enables running the wire through the brackets and connecting the wires to terminal block of PIR detector.
- ★ The construction of the brackets simplifies the installation of the devices, enabling precise angle adjustment.

FEATURES

- HIGH-TECH DESIGN
- DIFFERENT INSTALLATION POSSIBILITIES
- PRECISE DETECTOR ADJUSTMENT
- INSIDE WIRING DUCT
- ATTRACTIVE DESIGN
- HIGH QUALITY

MODEL
UBL-1110



MODEL
UBL-1112



MODEL
UBL-1115

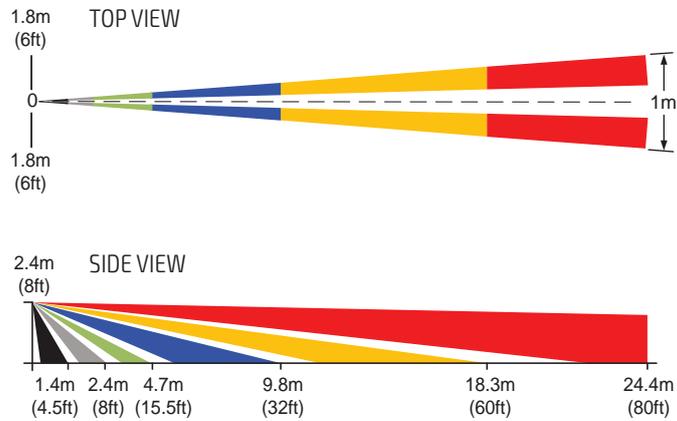


ADDITIONAL LENSES AND SUNSHIELD FILTER

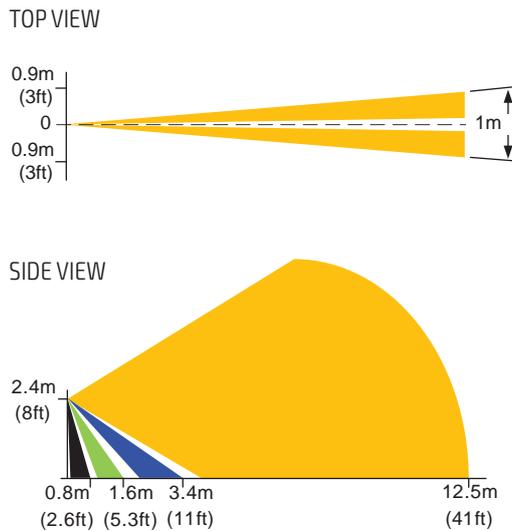
FOR PIR DETECTORS PATROL SERIES:

103PET ★ 105PET ★ 203PET ★ 403PET ★ 703 ★ 803 ★ 803PET ★ 903QUAD

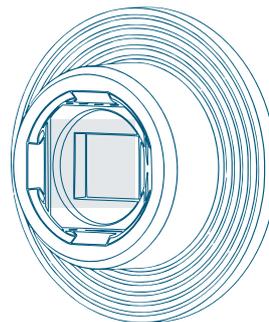
LONG RANGE LENS



VERTICAL BARRIER LENS



SUNSHIELD FILTER



SUNSHIELD FILTER FOR EXTRA PROTECTION OF DETECTOR'S PYROELECTRIC SENSOR FROM SUNLIGHT AND CAR HEADLIGHTS





WIRELESS ALARM SYSTEM SETS



WIRELESS REMOTE CONTROL SETS



WIRELESS PUSH BUTTONS

ACS[®] 101

WIRELESS ONE-CHANNEL ALARM SYSTEM SET



ACS 101 - wireless one-channel multipurpose alarm system set, designed for use as a Panic Button in security systems and for remote control of any electronic equipment:

- ★ ELECTRICAL GATES
- ★ SLIDING DOORS
- ★ ELECTROMAGNETIC LOCKS
- ★ AUTOMATIC BARRIERS
- ★ ELECTRICAL CURTAINS
- ★ LIGHTING FIXTURES, ETC.

TECHNICAL SPECIFICATIONS

Power input	12-16VDC
Current consumption:	
Stand-by mode	15mA/12V
Active mode	28mA/12V
Receiving range in open space	up to 250m
Operating frequency	433.92MHz ± 50kHz
Radiated power	≤10mW
Memory capacity	680 codes
Alarm period in panic button mode	3sec
Warm up period	0.5sec
Dry contact relay	DC30V/1.0A; DC60V/0.3A; AC125V/0.5A
Opening protection in panic button mode	TAMPER SWITCH
Last event memory in panic button mode	30 min
Operating temperature range	-20°C +50°C
Storage temperature range	- 40°C +80°C
Dimensions	85mm x 40mm x 20mm
Weight	125gr

FEATURES

• FOUR OPERATING MODES OF THE RECEIVER:

1. PANIC BUTTON MODE (SECURITY)
 2. SWITCHING MODE (ON/OFF)
 3. HOLD MODE (CONTINUOUS)
 4. PULSE MODE - 1 SECOND
- RECEIVING RANGE IN OPEN SPACE - UP TO 250 METERS
 - UP TO 680 REMOTE CONTROLS LEARNING THE RECEIVER
 - EASY LEARNING OF THE RECEIVER BY ADDITIONAL REMOTE CONTROLS
 - UNAUTHORIZED ACCESS PROTECTION (IN "PANIC BUTTON" MODE)
 - LAST EVENT MEMORY: 30MIN (IN "PANIC BUTTON" MODE)
 - THE ALARM ACTIVATES WHEN THE ELECTRIC POWER SUPPLY IS DISCONNECTED (IN "PANIC BUTTON" MODE)



ACS[®] 102

WIRELESS DUAL-CHANNEL ALARM SYSTEM SET



ACS 102 - wireless dual-channel multipurpose alarm system set, designed for use as a Panic Button in security systems and for remote control of any electronic equipment:

- ★ ELECTRICAL GATES
- ★ SLIDING DOORS
- ★ ELECTROMAGNETIC LOCKS
- ★ AUTOMATIC BARRIERS
- ★ ELECTRICAL CURTAINS
- ★ LIGHTING FIXTURES, ETC.

TECHNICAL SPECIFICATIONS

Power input	12-16VDC
Current consumption:	
Stand-by mode	15mA/12V
Active mode	39mA/12V
Receiving range in open space	up to 250m
Operating frequency	433.92MHz ± 50kHz
Radiated power	≤10mW
Memory capacity	680 codes
Alarm period in panic button mode	3sec
Warm up period	0.5sec
Dry contact relay	DC30V/1.0A; DC60V/0.3A; AC125V/0.5A
Opening protection in panic button mode	TAMPER SWITCH
Last event memory in panic button mode	30 min
Operating temperature range	-20°C +50°C
Storage temperature range	- 40°C +80°C
Dimensions	85mm x 40mm x 20mm
Weight	125gr

FEATURES

- **TWO INDEPENDENT CHANNELS**
- **FOUR OPERATING MODES OF THE RECEIVER:**
 1. PANIC BUTTON MODE (SECURITY)
 2. SWITCHING MODE (ON/OFF)
 3. HOLD MODE (CONTINUOUS)
 4. PULSE MODE - 1 SECOND
- RECEIVING RANGE IN OPEN SPACE - UP TO 250 METERS
- UP TO 680 REMOTE CONTROLS LEARNING THE RECEIVER
- EASY LEARNING OF THE RECEIVER BY ADDITIONAL REMOTE CONTROLS
- UNAUTHORIZED ACCESS PROTECTION (IN "PANIC BUTTON" MODE)
- LAST EVENT MEMORY: 30MIN (IN "PANIC BUTTON" MODE)
- THE ALARM ACTIVATES WHEN THE ELECTRIC POWER SUPPLY IS DISCONNECTED (IN "PANIC BUTTON" MODE)

ACS®

101R

WIRELESS ONE-CHANNEL KEELOQ®
CODE HOPPING ALARM SYSTEM SETS

ACS 101R - wireless one-channel multipurpose alarm system set, designed for use as a Panic Button in security systems and for remote control of any electronic equipment:

- ★ ELECTRICAL GATES
- ★ SLIDING DOORS
- ★ ELECTROMAGNETIC LOCKS
- ★ AUTOMATIC BARRIERS
- ★ ELECTRICAL CURTAINS
- ★ LIGHTING FIXTURES, ETC.

TECHNICAL SPECIFICATIONS	Power input	12-16VDC
	Current consumption:	
	Stand-by mode	15mA/12V
	Active mode	28mA/12V
	Receiving range in open space	up to 500m
	Security code	KEELOQ
	Operating frequency	433.92MHz ± 50kHz
	Radiated power	≤10mW
	Memory capacity	330 codes
	Alarm period in panic button mode	3sec
	Warm up period	0.5sec
	Dry contact relay	DC30V/1.0A; DC60V/0.3A; AC125V/0.5A
	Opening protection in panic button mode	TAMPER SWITCH
	Last event memory in panic button mode	30 min
Operating temperature range	-20°C +50°C	
Storage temperature range	-40°C +80°C	
Dimensions	85mm x 40mm x 20mm	
Weight	125gr	

- FEATURES**
- **FOUR OPERATING MODES OF THE RECEIVER:**
 1. PANIC BUTTON MODE (SECURITY)
 2. SWITCHING MODE (ON/OFF)
 3. HOLD MODE (CONTINUOUS)
 4. PULSE MODE - 1 SECOND
 - RECEIVING RANGE IN OPEN SPACE - UP TO 500 METERS
 - KEELOQ® CODE HOPPING TECHNOLOGY
 - UP TO 330 REMOTE CONTROLS LEARNING THE RECEIVER
 - EASY LEARNING OF THE RECEIVER BY ADDITIONAL REMOTE CONTROLS
 - UNAUTHORIZED ACCESS PROTECTION (IN "PANIC BUTTON" MODE)
 - LAST EVENT MEMORY: 30MIN (IN "PANIC BUTTON" MODE)
 - THE ALARM ACTIVATES WHEN THE ELECTRIC POWER SUPPLY IS DISCONNECTED (IN "PANIC BUTTON" MODE)



ACS[®] 102R

WIRELESS DUAL-CHANNEL KEELOQ[®]
CODE HOPPING ALARM SYSTEM SETS



ACS 102R - wireless dual-channel multipurpose alarm system set, designed for use as a Panic Button in security systems and for remote control of any electronic equipment:

- ★ ELECTRICAL GATES
- ★ SLIDING DOORS
- ★ ELECTROMAGNETIC LOCKS
- ★ AUTOMATIC BARRIERS
- ★ ELECTRICAL CURTAINS
- ★ LIGHTING FIXTURES, ETC.

TECHNICAL SPECIFICATIONS	Power input	12-16VDC
	Current consumption:	
	Stand-by mode	15mA/12V
	Active mode	39mA/12V
	Receiving range in open space	up to 500m
	Security code	KEELOQ
	Operating frequency	433.92MHz ± 50kHz
	Radiated power	≤10mW
	Memory capacity	330 codes
	Alarm period in panic button mode	3sec
	Warm up period	0.5sec
	Dry contact relay	DC30V/1.0A; DC60V/0.3A; AC125V/0.5A
	Opening protection in panic button mode	TAMPER SWITCH
	Last event memory in panic button mode	30 min
Operating temperature range	-20°C +50°C	
Storage temperature range	-40°C +80°C	
Dimensions	85mm x 40mm x 20mm	
Weight	125gr	

FEATURES

- **TWO INDEPENDENT CHANNELS**
- **FOUR OPERATING MODES OF THE RECEIVER:**
 1. PANIC BUTTON MODE (SECURITY)
 2. SWITCHING MODE (ON/OFF)
 3. HOLD MODE (CONTINUOUS)
 4. PULSE MODE - 1 SECOND
- RECEIVING RANGE IN OPEN SPACE - UP TO 500 METERS
- KEELOQ[®] CODE HOPPING TECHNOLOGY
- UP TO 330 REMOTE CONTROLS LEARNING THE RECEIVER
- EASY LEARNING OF THE RECEIVER BY ADDITIONAL REMOTE CONTROLS
- UNAUTHORIZED ACCESS PROTECTION (IN "PANIC BUTTON" MODE)
- LAST EVENT MEMORY: 30MIN (IN "PANIC BUTTON" MODE)
- THE ALARM ACTIVATES WHEN THE ELECTRIC POWER SUPPLY IS DISCONNECTED (IN "PANIC BUTTON" MODE)

ACS®

112RPROFESSIONAL WIRELESS ONE-CHANNEL KEELOQ®
CODE HOPPING REMOTE CONTROL SET

ACS 112R - wireless one-channel multifunctional receiver, operating in conjunction with two hand-held push-button transmitters, providing the remote control of any electronic equipment:

- ★ ELECTRICAL GATES
- ★ SLIDING DOORS
- ★ ELECTROMAGNETIC LOCKS
- ★ AUTOMATIC BARRIERS
- ★ ELECTRICAL CURTAINS
- ★ LIGHTING FIXTURES, ETC.

The remote control sets may be used as a personal PANIC BUTTON in security systems for creating any type of alarm.

TECHNICAL SPECIFICATIONS

Power input	12-16VDC
Current consumption:	
Stand-by mode	14mA/12V
Active mode	27mA/12V
Receiving range in open space	up to 500m
Security code	KEELOQ
Operating frequency	433.92MHz ± 50kHz
Radiated power	≤10mW
Memory capacity	330 codes
Alarm period in panic button mode	3sec
Warm up period	0.5sec
Dry contact relay	DC30V/1.0A; DC60V/0.3A; AC125V/0.5A
Opening protection in panic button mode	TAMPER SWITCH
Last event memory in panic button mode	30 min
Operating temperature range	-20°C +50°C
Storage temperature range	-40°C +80°C
Dimensions	85mm x 40mm x 20mm
Weight	125gr

FEATURES

• FIVE OPERATING MODES OF THE RECEIVER:

1. PULSE MODE - 1 SECOND
 2. SWITCH ON PERIOD MODE (1 - 300 SEC)
 3. SWITCHING MODE (ON/OFF)
 4. HOLD MODE (CONTINUOUS)
 5. PANIC BUTTON MODE (SECURITY)
- RECEIVING RANGE IN OPEN SPACE - UP TO 500 METERS
 - KEELOQ® CODE HOPPING TECHNOLOGY
 - UP TO 330 REMOTE CONTROLS LEARNING THE RECEIVER
 - PROGRAMMING THE ON/OFF PERIOD FOR THE DESIRED TIME FROM 1 TO 300 SEC
 - UNAUTHORIZED ACCESS PROTECTION (IN "PANIC BUTTON" MODE)
 - LAST EVENT MEMORY: 30MIN (IN "PANIC BUTTON" MODE)
 - THE ALARM ACTIVATES WHEN THE ELECTRIC POWER SUPPLY IS DISCONNECTED (IN "PANIC BUTTON" MODE)



ACS®

114RPROFESSIONAL WIRELESS DUAL-CHANNEL KEELOQ®
CODE HOPPING REMOTE CONTROL SET

ACS 114R - wireless dual- channel multifunctional receiver, operating in conjunction with two hand-held push-button transmitters, providing the remote control of any electronic equipment:

- ★ ELECTRICAL GATES
- ★ SLIDING DOORS
- ★ ELECTROMAGNETIC LOCKS
- ★ AUTOMATIC BARRIERS
- ★ ELECTRICAL CURTAINS
- ★ LIGHTING FIXTURES, ETC.

The remote control sets may be used as a personal PANIC BUTTON in security systems for creating any type of alarm.

TECHNICAL SPECIFICATIONS

Power input	12-16VDC
Current consumption:	
Stand-by mode	15mA/12V
Active mode	39mA/12V
Receiving range in open space	up to 500m
Security code	KEELOQ
Operating frequency	433.92MHz ± 50kHz
Radiated power	≤10mW
Memory capacity	330 codes
Alarm period in panic button mode	3sec
Warm up period	0.5sec
Dry contact relay	DC30V/1.0A; DC60V/0.3A; AC125V/0.5A
Opening protection in panic button mode	TAMPER SWITCH
Last event memory in panic button mode	30 min
Operating temperature range	-20°C +50°C
Storage temperature range	-40°C +80°C
Dimensions	85mm x 40mm x 20mm
Weight	127gr

FEATURES

- TWO INDEPENDENT CHANNELS
- FIVE OPERATING MODES OF EACH RECEIVER CHANNEL:
 1. PULSE MODE - 1 SECOND
 2. SWITCH ON PERIOD MODE (1 - 300 SEC)
 3. SWITCHING MODE (ON/OFF)
 4. HOLD MODE (CONTINUOUS)
 5. PANIC BUTTON MODE (SECURITY)
- RECEIVING RANGE IN OPEN SPACE - UP TO 500 METERS
- KEELOQ® CODE HOPPING TECHNOLOGY
- UP TO 330 REMOTE CONTROLS LEARNING THE RECEIVER
- PROGRAMMING THE ON/OFF PERIOD FOR THE DESIRED TIME FROM 1 TO 300 SEC
- UNAUTHORIZED ACCESS PROTECTION (IN "PANIC BUTTON" MODE)
- LAST EVENT MEMORY: 30MIN (IN "PANIC BUTTON" MODE)
- THE ALARM ACTIVATES WHEN THE ELECTRIC POWER SUPPLY IS DISCONNECTED (IN "PANIC BUTTON" MODE)

ACS[®] 124R

PROFESSIONAL WIRELESS ONE-CHANNEL KEELOQ[®]
CODE HOPPING REMOTE CONTROL SET



ACS 124R - wireless one-channel multifunctional receiver, operating in conjunction with two hand-held push-button transmitters, providing the remote control of any electronic equipment:

- ★ ELECTRICAL GATES
- ★ SLIDING DOORS
- ★ ELECTROMAGNETIC LOCKS
- ★ AUTOMATIC BARRIERS
- ★ ELECTRICAL CURTAINS
- ★ LIGHTING FIXTURES, ETC.

The remote control sets may be used as a personal PANIC BUTTON in security systems for creating any type of alarm.

TECHNICAL SPECIFICATIONS

Power input	AC/DC 24V ± 10%
Current consumption:	
Stand-by mode	18mA/24V
Active mode	31mA/24V
Receiving range in open space	up to 500m
Security code	KEELOQ
Operating frequency	433.92MHz ± 50kHz
Radiated power	≤10mW
Memory capacity	330 codes
Alarm period in panic button mode	3sec
Warm up period	0.5sec
Dry contact relay	DC30V/1.0A; DC60V/0.3A; AC125V/0.5A
Opening protection in panic button mode	TAMPER SWITCH
Last event memory in panic button mode	30 min
Operating temperature range	-20°C +50°C
Storage temperature range	-40°C +80°C
Dimensions	85mm x 40mm x 20mm
Weight	127gr

FEATURES

• FIVE OPERATING MODES OF THE RECEIVER:

1. PULSE MODE - 1 SECOND
 2. SWITCH ON PERIOD MODE (1 - 300 SEC)
 3. SWITCHING MODE (ON/OFF)
 4. HOLD MODE (CONTINUOUS)
 5. PANIC BUTTON MODE (SECURITY)
- POWER INPUT: AC/DC 24V
 - RECEIVING RANGE IN OPEN SPACE - UP TO 500 METERS
 - KEELOQ[®] CODE HOPPING TECHNOLOGY
 - UP TO 330 REMOTE CONTROLS LEARNING THE RECEIVER
 - PROGRAMMING THE ON/OFF PERIOD FOR THE DESIRED TIME FROM 1 TO 300 SEC
 - THE ALARM ACTIVATES WHEN THE ELECTRIC POWER SUPPLY IS DISCONNECTED (IN "PANIC BUTTON" MODE)
 - UNAUTHORIZED ACCESS PROTECTION (IN "PANIC BUTTON" MODE)
 - LAST EVENT MEMORY: 30MIN (IN "PANIC BUTTON" MODE)
 - REMOVABLE RECEIVER MEMORY DEVICE SAVES ALL PREVIOUSLY MEMORIZED CODES



ACS®

126RPROFESSIONAL WIRELESS DUAL-CHANNEL KEELOQ®
CODE HOPPING REMOTE CONTROL SET

ACS 126R - wireless dual-channel multifunctional receiver, operating in conjunction with two hand-held push-button transmitters, providing the remote control of any electronic equipment:

- ★ ELECTRICAL GATES
- ★ SLIDING DOORS
- ★ ELECTROMAGNETIC LOCKS
- ★ AUTOMATIC BARRIERS
- ★ ELECTRICAL CURTAINS
- ★ LIGHTING FIXTURES, ETC.

The remote control sets may be used as a personal PANIC BUTTON in security systems for creating any type of alarm.

TECHNICAL SPECIFICATIONS

Power input	AC/DC 24V ± 10%
Current consumption:	
Stand-by mode	19mA/24V
Active mode	42mA/24V
Receiving range in open space	up to 500m
Security code	KEELOQ
Operating frequency	433.92MHz ± 50kHz
Radiated power	≤10mW
Memory capacity	330 codes
Alarm period in panic button mode	3sec
Warm up period	0.5sec
Dry contact relay	DC30V/1.0A; DC60V/0.3A; AC125V/0.5A
Opening protection in panic button mode	TAMPER SWITCH
Last event memory in panic button mode	30 min
Operating temperature range	-20°C +50°C
Storage temperature range	-40°C +80°C
Dimensions	85mm x 40mm x 20mm
Weight	129gr

FEATURES

- **TWO INDEPENDENT CHANNELS**
- **FIVE OPERATING MODES OF EACH RECEIVER CHANNEL:**
 1. PULSE MODE - 1 SECOND
 2. SWITCH ON PERIOD MODE (1 - 300 SEC)
 3. SWITCHING MODE (ON/OFF)
 4. HOLD MODE (CONTINUOUS)
 5. PANIC BUTTON MODE (SECURITY)
- POWER INPUT: AC/DC 24V
- RECEIVING RANGE IN OPEN SPACE - UP TO 500 METERS
- KEELOQ® CODE HOPPING TECHNOLOGY
- UP TO 330 REMOTE CONTROLS LEARNING THE RECEIVER
- PROGRAMMING THE ON/OFF PERIOD FOR THE DESIRED TIME FROM 1 TO 300 SEC
- THE ALARM ACTIVATES WHEN THE ELECTRIC POWER SUPPLY IS DISCONNECTED (IN "PANIC BUTTON" MODE)
- UNAUTHORIZED ACCESS PROTECTION (IN "PANIC BUTTON" MODE)
- LAST EVENT MEMORY: 30MIN (IN "PANIC BUTTON" MODE)
- REMOVABLE RECEIVER MEMORY DEVICE SAVES ALL PREVIOUSLY MEMORIZED CODES

ACS®

144RPROFESSIONAL WIRELESS FOUR-CHANNEL KEELOQ®
CODE HOPPING REMOTE CONTROL SET

ACS 144R - wireless four-channel multifunctional receiver, operating in conjunction with two hand-held push-button transmitters, providing the remote control of any electronic equipment:

- ★ ELECTRICAL GATES
- ★ SLIDING DOORS
- ★ ELECTROMAGNETIC LOCKS
- ★ AUTOMATIC BARRIERS
- ★ ELECTRICAL CURTAINS
- ★ LIGHTING FIXTURES, ETC.

The remote control sets may be used as a personal PANIC BUTTON in security systems for creating any type of alarm.

TECHNICAL SPECIFICATIONS

Power input	12-16VDC
Current consumption:	
Stand-by mode	15mA/12V
Active mode	72mA/12V
Receiving range in open space	up to 500m
Security code	KEELOQ
Operating frequency	433.92MHz ± 50kHz
Radiated power	≤10mW
Memory capacity	330 codes
Alarm period in panic button mode	3sec
Warm up period	0.5sec
Dry contact relay	DC30V/1.0A; DC60V/0.3A; AC125V/0.5A
Opening protection in panic button mode	TAMPER SWITCH
Last event memory in panic button mode	30 min
Operating temperature range	-20°C +50°C
Storage temperature range	-40°C +80°C
Dimensions	85mm x 55mm x 20mm
Weight	140gr

FEATURES

- **FOUR INDEPENDENT CHANNELS**
- **FIVE OPERATING MODES OF EACH RECEIVER CHANNEL:**
 1. PULSE MODE - 1SECOND
 2. SWITCH ON PERIOD MODE (1 - 300 SEC)
 3. SWITCHING MODE (ON/OFF)
 4. HOLD MODE (CONTINUOUS)
 5. PANIC BUTTON MODE (SECURITY)
- RECEIVING RANGE IN OPEN SPACE - UP TO 500 METERS
- KEELOQ® CODE HOPPING TECHNOLOGY
- UP TO 330 REMOTE CONTROLS LEARNING THE RECEIVER
- PROGRAMMING THE ON/OFF PERIOD FOR THE DESIRED TIME FROM 1 TO 300 SEC
- UNAUTHORIZED ACCESS PROTECTION (IN "PANIC BUTTON" MODE)
- LAST EVENT MEMORY: 30MIN (IN "PANIC BUTTON" MODE)
- THE ALARM ACTIVATES WHEN THE ELECTRIC POWER SUPPLY IS DISCONNECTED (IN "PANIC BUTTON" MODE)



ACS®

146RPROFESSIONAL WIRELESS FOUR-CHANNEL KEELOQ®
CODE HOPPING REMOTE CONTROL SET

ACS 146R - wireless four-channel multifunctional receiver, operating in conjunction with two hand-held push button transmitters, providing the remote control of any electronic equipment:

- ★ ELECTRICAL GATES
- ★ SLIDING DOORS
- ★ ELECTROMAGNETIC LOCKS
- ★ AUTOMATIC BARRIERS
- ★ ELECTRICAL CURTAINS
- ★ LIGHTING FIXTURES, ETC.

The remote control sets may be used as a personal PANIC BUTTON in security systems for creating any type of alarm.

TECHNICAL SPECIFICATIONS

Power input	AC/DC 24V ± 10%
Current consumption:	
Stand-by mode	19mA/24V
Active mode	82mA/24V
Receiving range in open space	up to 500m
Security code	KEELOQ
Operating frequency	433.92MHz ± 50kHz
Radiated power	≤10mW
Memory capacity	330 codes
Alarm period in panic button mode	3sec
Warm up period	0.5sec
Dry contact relay	DC30V/1.0A; DC60V/0.3A; AC125V/0.5A
Opening protection in panic button mode	TAMPER SWITCH
Last event memory in panic button mode	30 min
Operating temperature range	-20°C +50°C
Storage temperature range	-40°C +80°C
Dimensions	85mm x 55mm x 20mm
Weight	140gr

FEATURES

- **FOUR INDEPENDENT CHANNELS**
- **FIVE OPERATING MODES OF EACH RECEIVER CHANNEL:**
 1. PULSE MODE - 1 SECOND
 2. SWITCH ON PERIOD MODE (1 - 300 SEC)
 3. SWITCHING MODE (ON/OFF)
 4. HOLD MODE (CONTINUOUS)
 5. PANIC BUTTON MODE (SECURITY)
- POWER INPUT: AC/DC 24V
- RECEIVING RANGE IN OPEN SPACE - UP TO 500 METERS
- KEELOQ® CODE HOPPING TECHNOLOGY
- UP TO 330 REMOTE CONTROLS LEARNING THE RECEIVER
- PROGRAMMING THE ON/OFF PERIOD FOR THE DESIRED TIME FROM 1 TO 300 SEC
- UNAUTHORIZED ACCESS PROTECTION (IN "PANIC BUTTON" MODE)
- LAST EVENT MEMORY: 30MIN (IN "PANIC BUTTON" MODE)
- THE ALARM ACTIVATES WHEN THE ELECTRIC POWER SUPPLY IS DISCONNECTED (IN "PANIC BUTTON" MODE)

ACS[®] 1000R

PROFESSIONAL WIRELESS DUAL-CHANNEL KEELOQ[®]
CODE HOPPING ALARM SYSTEM SET



ACS 1000R - wireless dual-channel multipurpose alarm system set, designed for use as a Panic Button in security systems and for remote control of any electronic equipment:

- ★ ELECTRICAL GATES
- ★ SLIDING DOORS
- ★ ELECTROMAGNETIC LOCKS
- ★ AUTOMATIC BARRIERS
- ★ ELECTRICAL CURTAINS
- ★ LIGHTING FIXTURES, ETC.

TECHNICAL SPECIFICATIONS

Power input	AC/DC 12-24V ± 10%
Current consumption:	
Stand-by mode	20mA/24B
Active mode	45mA/24B
Receiving range in open space	up to 1000m
Security code	KEELOQ
Operating frequency	433.92MHz ± 50kHz
Radiated power	≈10mW
Memory capacity	330 codes
Alarm period in panic button mode	3sec
Warm up period	0.5sec
Dry contact relay	DC30V/1.0A; DC60V/0.3A; AC125V/0.5A
Opening protection in panic button mode	TAMPER SWITCH
Last event memory in panic button mode	30 min
Operating temperature range	-20°C +50°C
Storage temperature range	-40°C +80°C
Dimensions	85mm x 40mm x 20mm
Weight	150gr

FEATURES

- **TWO OPERATING MODES OF THE RECEIVER:**
 1. PANIC BUTTON MODE (SECURITY)
 2. PULSE MODE - 1 SECOND
- TWO INDEPENDENT CHANNELS
- POWER INPUT: AC/DC 12-24V
- RECEIVING RANGE IN OPEN SPACE - UP TO 1000 METERS
- KEELOQ[®] CODE HOPPING TECHNOLOGY
- UP TO 330 REMOTE CONTROLS LEARNING THE RECEIVER
- THE SOUND SIGNAL NOTIFIES ALARM
- EASY LEARNING OF THE RECEIVER BY ADDITIONAL REMOTE CONTROLS
- UNAUTHORIZED ACCESS PROTECTION (IN "PANIC BUTTON" MODE)
- LAST EVENT MEMORY: 30MIN (IN "PANIC BUTTON" MODE)
- THE ALARM ACTIVATES WHEN THE ELECTRIC POWER SUPPLY IS DISCONNECTED (IN "PANIC BUTTON" MODE)



★ **TR-500F** ★ **TxRC-09**
 ★ **Tx4RC-10** ★ **TxRC-12**



Hand-held, push-button remote controls are available in both two-channel and four-channel standards. The multifunctional remote controls TxRC-09, Tx4RC-10 and TxRC-12 uses KEELOQ® code hopping technology, ensuring the highest level of security by code combination which is programmable, but read-protected. The combination of different codes transmitted by remote control prevents radio scanning and unauthorized access.



TR-500F
 REMOTE CONTROL
 (TWO CHANNEL)

Operating frequency	433.92MHz
Radiated power	<10mW
Modulation	ASK
Band width	50kHz (SAW RESONATOR)
Type of antenna	Loop antenna on Board
Mode of operation	Simplex
Battery	Alkaline "GP23A 12V"



TxRC-09
 REMOTE CONTROL
 (TWO CHANNEL)

Operating frequency	433.92MHz
Radiated power	<10mW
Modulation	ASK
Security code	"KEELOQ"
Band width	50kHz (SAW RESONATOR)
Type of antenna	Loop antenna on Board
Mode of operation	Simplex
Battery	Alkaline "GP23A 12V"



Tx4RC-10
 REMOTE CONTROL
 (FOUR CHANNEL)

Operating frequency	433.92MHz
Radiated power	<10mW
Modulation	ASK
Security code	"KEELOQ"
Band width	50kHz (SAW RESONATOR)
Type of antenna	Loop antenna on Board
Mode of operation	Simplex
Battery	Alkaline "GP23A 12V"



TxRC-12
 REMOTE CONTROL
 (TWO CHANNEL)

Operating frequency	433.92MHz
Radiated power	=10mW
Modulation	ASK
Security code	"KEELOQ"
Band width	25kHz (CRISTAL)
Type of antenna	External Omnidirectional
Battery	Alkaline "GP ULTRA "AAA" 1.5V" 3 pieces

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