



C100 SAFARI

Weatherproof **Outdoor Adaptive**[®]
15.2m **Dual Technology**
Ruggedized **Microwave/PIR**
Detectors with swivel mount,
automatically adjust to their
environment, minute by minute, for
the **ultimate false alarm**
immunity and reliability

The C100-SAFARI is a combination of NAPCO's field-proven dual technology C100ST microwave/passive infrared detector within a new ruggedized, sealed outdoor enclosure with flexible dual mounting brackets for optimal field-of-view aiming, vertically and horizontally. With a wide operating temperature of -20 to +50 degrees C (-4° to 122° F), weather-shielded enclosure and white-light filtering fresnel lens, the compact unit will reliably provide outdoor motion detection with a range of 15.2m x 12.2m (50 x 40') @ 25° C.

Providing full vertical (up-down) and horizontal (side-to-side) coverage pattern rotation, the unit is supplied with two locking swivel mounting brackets, for use in applications with or without an electrical junction box (as shown below). An innovative detector, the microprocessor-controlled unit incorporates NAPCO's patented "smart" dual technology that actively analyzes incoming signals comparatively and automatically makes continuous adjustments to counteract false alarm sources detected in its environments minute-by-minute. This perpetual environmental evaluation and correction cycle enables the unit to increase and/or decrease sensitivity as needed, always assuring both optimal stability and intruder "catch" detection. For further integrity, C100-SAFARI performs periodic active self-tests on both the PIR and Microwave channels of its RFI/EMI-shielded circuitry.



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Manufacturing great security products is all we do. It's that simple.™

Two decades of NAPCO sensor engineering expertise combines to provide its sensors with unsurpassed false alarm prevention and intruder catch detection.

FEATURES

- **Broad 15.2m x 12.2m (50 x 40')* detection range and models for installations worldwide (*Range at 25° C.): C100-SAFARI68** 10.687GHz for United Kingdom; **C100-SAFARI52** 10.525GHz for Europe; **C100-SAFARI99** 9.99GHz for France.
- **Ruggedized, outdoor 180° swivel brackets supplied (2) for full vertical (up-down) and horizontal (left-right) coverage pattern aiming.** for use with or without electrical junction box. Enables full rotation during installation and locking in the optimal field-of-view in any available outdoor location.
- **Custom white-light-filtered aspheric optics for outdoors.** Napco's fresnel lenses are carefully designed to provide the ideal wide angle lens array; additionally, SAFARI models have extra white-light filtering pigmentation for outdoor extremes.
- **Forgiving, wide, operating temperature of -20 to +50 degrees C (-4 ° to 122° F) and temperature compensated circuitry for dependable use even in outdoor extremes.**
- **Patented Adaptive @ technology continuously monitors and dynamically self-adjusts the sensor to its environment.** This ensures intruder "catch" sensitivity is optimized minute-by-minute, while "phantom" false alarm sources, such as pets/animals, fans, sunlight, HVAC, are simultaneously counteracted.
- **Smart microprocessor-based false alarm discrimination.** The on-board A to D conversion microprocessor (Analog-to-Digital) analyzes all incoming microwave and PIR detected signals against its built in library of waveform signatures of known false alarm sources, like heaters, fans, blowing drapes/blinds and animals. The product of decades of sensor engineering and expertise, this inherent signal processing intelligence, enables Adaptive@ Detectors provides unsurpassed false alarm discrimination the reliability and accuracy will save both time and money.
- **12 automatically selected, dynamic Adaptive@ detection modes** for optimal "intruder catch" and stability. (Modes 1-12: 1 most sensitive, 12 most stable).
- **Dual technology microwave and PIR signal verification.** The detector combines the strengths of both heat- and motion-sensitive detection technologies to dually verify alarm conditions for ideal false alarm discrimination.
- **Active, automatic self-testing of all key components and circuits-** The unit will internally generate both a PIR signal and a microwave signal, in intervals of 11- 16 hours, which will fully test both channels independently. Any failure or internal trouble will be reported to the system for quick remedy, avoiding any false sense of security or breach thereof.
- **Superior RFI/EFI/lightning shielded protection.** Key components and resilient SMD circuitry are electronically-shielded to 30V/m. This protects the unit's proper performance from nuisance interference due to static discharge, power surges, electric spikes, etc.
- **Critical Range Control** - the detector enables manual, customizable range with a calibrated adjustable potentiometer to fine-tune range during walk-test, if desired.



- **Secured cover and tamper supervision** defeats acts to sabotage or vandalize the unit by reporting them to the system if opening the detector is attempted.
- **Added False Alarm Prevention Features.** The unit employs myriad features to ensure only valid alarms are reported in the system. This includes properties of its circuitry and fresnel optics, which include integral extra white light protection, a Napco-pioneered innovation.

SPECIFICATIONS

- Microprocessor: 2K ROM with A-D Converter
- Operating temperature*: -20 to +50 ° C (-4 ° to 122° F)
- Output relay: Form A; normally closed
- Relay time: Approx. 3 seconds
- Alarm Relay: 100mA, 24Vdc with internal 10 ohm current limiting resistor
- Multi-mode Trouble Output (Open collector)
- Self-Test Interval: 11 - 16 hrs.
- Power supply requirements: Filtered 10.6 to 16VDC nominal with battery backup form the control panel.
- Current drain: 28mA (idle/Alarm) at 12VDC (nominal)
- Detector (only) dimensions: 11.4 x 6.4 x 5.7cm (HxWxD) (4.5"H x 2.5"W x 2.25"D)
- Dimensions on mounting bracket[gl, overall]: 12.7 x 8.6x 14.6cm (HxWxD) (5H x 3.4W 5.75"D)
- Shipping weight: 567 kg (1.25lb.)

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