


BOSCH

Invented for life

CAM940C and CAM940CE PIR Motion Detectors with Covert Color Camera



- ▶ Full function PIR
- ▶ Integrated pinhole CCD color camera with 3.4 lx light sensitivity
- ▶ 420 TV lines of horizontal resolution
- ▶ Motion Analyzer II processing
- ▶ Intelligent camera control (camera can be left on or controlled by the PIR)
- ▶ 12 m x 12 m (40 ft x 40 ft) PIR coverage
- ▶ Dual relay outputs for alarm and VCR control
- ▶ Includes video cable with BNC connector

The CAM940C and CAM940CE provide passive infrared (PIR) signals and standard composite video signals. Each detector completely conceals one integrated CCD color camera, providing discreet and covert video for coverage areas. The color camera in the CAM940C provides NTSC video, while the color camera in the CAM940CE provides PAL video.

Both models include timers and relay outputs for alarm and VCR control. Selectable modes for either switcher or PIR control offer a lower current draw option.

Functions

PIR Signal Processing

Motion Analyzer II uses multiple thresholds and timing windows to analyze timing, amplitude, duration and polarity of signals to make an alarm decision. Will not alarm on extreme levels of thermal and illumination disturbances caused by heaters and air conditioners, hot and cold drafts, sunlight, lightning, and moving headlights. Two sensitivity settings are provided.

Intelligent Camera Control

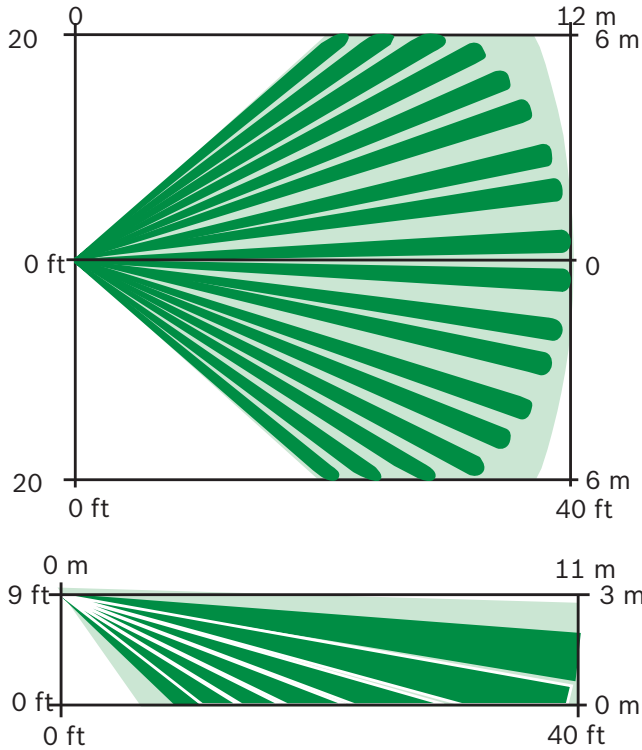
Form C contacts activate external devices such as VCRs or lights. When the PIR detects motion, the contacts follow a field-selectable timer. The timer adjusts from 15 seconds to 60 seconds and restarts each time the PIR detects motion. Installers can program the camera to operate continuously or to follow the timer.

Certifications and Approvals

Region	Certification	
Europe	CE	89/336/EEC, EN55022:1998 +A1:2000 +A2:2003, EN50130-4:1996 +A1:1998 +A2:2003, EN61000-4-2:1995 +A1:1998 +A2:2001, EN61000-4-3:2002 +A1:2003, EN61000-4-4:1995 +A1:2000 +A2:2001, EN61000-4-5:1995 +A1:2001, EN61000-4-6:1996 +A1:2001 +A2:2001, EN61000-4-11:1994 +A1:2001, EN60950-1:2001 +A11:2004
Belgium	INCERT	E model only: B-509-0007
USA	UL	ANSR: Intrusion Detection Units (UL639)

CAM940C complies with FCC Part 15

Installation/Configuration Notes



Standard Broad Coverage: 12 m x 12 m (40 ft x 40 ft)

Mounting Considerations

The detectors can be surface-mounted directly on a wall, mounted onto a B335-3 Low Profile Mount Bracket (included), or mounted onto a B338 Universal Ceiling Bracket (optional).

Wiring Considerations

The included video output cable connects up to 152 m (500 ft) of RG59/U or similar coaxial cable.

Parts Included

Quantity	Component
1	Video cable with BNC connector
1	B335-3 Low Profile Mount Bracket

Technical Specifications

Electrical

Power

Input Voltage	10 VDC to 14 VDC
Input Current (Standby)	35 mA at 12 VDC
Input Current (Alarm or Camera On)	150 mA at 12 VDC

PIR

Alarm Relay	One Form A normally-closed (NC) contact rated for 125 mA at 12 VDC
Tamper Relay	One Form A normally-closed (NC) contact rated for 125 mA at 12 VDC

Video

Pick-up Device for CAM940CE	8.467 mm (1/3 in.) color CCD, PAL standard
Pick-up Device for CAM940C	8.467 mm (1/3 in.) color CCD, NTSC standard
Scanning System	2:1 interlace
Output	1 V p-p, 75 Ohm
Minimum Illumination	3.4 lx with pinhole lens
Relay and Timer	Form C normally-open (NO) and normally-closed (NC) contacts, 125 mA at 12 VDC. Timer adjusts from 15 seconds to 60 seconds.

Lens and Iris

Lens	3.6 mm pinhole with 75° field of view
Shutter Speed for CAM940CE	1/50 sec to 1/100,000 sec
Shutter Speed for CAM940C	1/60 sec to 1/100,000 sec

Resolution

Horizontal	Up to 420 TV lines
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Mechanical

Material	High-impact, fire-retardant, ABS plastic enclosure
Dimensions	95 x 57 x 38 mm (3.75 x 2.25 x 1.5 in.)
Mounting	Wall or bracket

Environmental

Operating Temperature	-10°C to +49°C (+14°F to +120°F) <i>For UL Certified installations, 0°C to +49°C (+32°F to +120°F)</i>
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Environmental Class II

IP Rating	IP 41, IK02 (EN60529, EN50102)
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Ordering Information

CAM940C PIR Motion Detector with Covert Color Camera **CAM940C**

Provides PIR and standard composite NTSC video signals. Includes one video cable with BNC connector and one low-profile mounting bracket.

CAM940CE PIR Motion Detector with Covert Color Camera **CAM940CE**

Provides passive-infrared PIR and standard composite PAL video signals. Includes one video cable with BNC connector and one low-profile mounting bracket.

Accessories

B338 universal ceiling mount **B338**

Swiveling plastic mount for ceiling mounting. The vertical swivel range is +7° to -16°, while the horizontal swivel range is ±45°.

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