Boundless Security Systems, Inc.
the communications bandwidth experts

Covert cellular camera
Location tracking
Lobby, Interview Rooms
ATM, time-clocks, cash registers
Retail, Office Thefts
Break-ins, Construction

5MP Indoor Covert Cellular Smart Camera with Stranger Detector™
EASY TO USE, CUSTOM CONFIGURED, HIGH DEF, INDOOR CELLULAR VIDEO SURVEILLANCE SYSTEM WITH 256 GB

Patent Pending

Made in USA

5 MP concealed color camera

Turnkey, high definition, yet ultra low bandwidth and very low power

Cell antenna not shown

Turnkey, small white plastic box blends into office environments. Only connections are jacks for ext. cell antenna and power supply. 5 MP color camera, digital video recording, *Stranger Detector™* locating system, and cell modem are internal. User provides cellular data service.

Specifications

- Concealed fixed focus camera with 5 mega-pixel (MP) ¼" color CMOS image sensor
- Two models: wall- or tripod-mount with 90º lens, ceiling mount with fisheye lens
- Dual-stream optimizes quick and detail views: ***monitoring stream*** is live and internally recorded at 640x360 @ 5 fps with high compression; sharper, ***investigations stream*** is int. recorded at 1920x1080 @ 5 fps (programmable streams)
- *Stranger Detector™* locating system passively receives WiFi probes from mobile devices within approx. 75 feet (varies due to building construction), and enters only WiFi probes into its database; intended for low to medium WiFi traffic
- Internal video server with 3G cellular-network friendly[1,2] video communications system with bandwidth-saving, video on demand, not bandwidth-wasting, video streaming
- 256 GB internal solid state storage
- Industrial grade cellular modem w/ext. antenna
- Wide voltage range, 12 VDC @ 6W with low voltage shutdown and remote power mgt. suitable for ext. battery, with wall-wart AC power supply
- Internal DC-UPS bridges brief power failures and provides clean, switchless shutdowns
- White plastic approx. 6.8"L x 4.8"W x 2.6"H

Features

- Ease of use, turnkey, fully custom pre-configured, no IT setup required
- Just fasten to an indoor wall, tripod or ceiling, connect power and instantly have high definition, digital video surveillance via the Internet
- Small, very low power, AC/DC "smart" camera
- Uses widely available, 3G cell communications
- Easy remote access to live and recorded video[2] and *Stranger Detector™* data in a browser via Boundless' Cloud-based portal and Internet
- Records video internally, avoiding distant network video recorder and constant network traffic, recording better video than could be sent to it
- View recorded video at high speed via Internet
- *Stranger Detector™* locating system detects presence of mobile devices, and by extension, humans, within 75 feet via WiFi signals they broadcast, spots patterns humans can't see, sends alerts when particular mobile devices are detected, creates a data base of their presence, and presents live <u>and</u> recorded video in browsers
- ***Rules-based Analysis System*** processes internal database of smartphone signatures (WiFi MAC addresses) and spots patterns of presence of persons whose identities are unknown

Description

The ***Indoor Covert Smart Camera*** provides not only an Internet accessible, digital video surveillance system with long internal recording, but also exploits the popularity of smartphones to provide a locating system that detects the presence of persons whose identities are unknown. It determines the presence of mobile devices using WiFi signals they broadcast. These signatures can be read electronically at long range to detect and identify mobile devices, and by extension individuals, automatically, even when persons are out of sight. It records mobile devices' WiFi probes. Its video helps match WiFi signatures with individuals. It watches for the presence of user-programmed or automatically selected WiFi signatures, and sends video alerts.

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5 MP camera, video recording, *Smartphone WiFi Monitoring* locating system, and cell modem

Please see our White Paper on *Smartphone WiFi Monitoring* integrated with outdoor video surveillance, aka *Stranger Detector™*: http://tinyurl.com/cgycmxm

Example Alert push e-mail from a system that has been given the host name, *M-1* (note: *view* links are active in Alerts sent, but not in this document):

To: M-1.alerts@BoundlessSecurity.com
Subject: M-1 10:40:f3:56:a5:00 on Watch List detected

Smartphone on Watch List with WiFi Signature 10:40:f3:56:a5:00 Detected

Click any *view* link for live video. To view recorded video: (1) click the *view* link for the desired probe and wait for live video, (2) click **REC** and wait for recent recorded video, and then (3) click **SET_TS** to see recorded video starting 15 seconds before the probe was received.

The less negative the signal strength, the stronger the signal and the closer the smartphone or other WiFi-enabled mobile device was to the camera. Signals are received in all directions, not just where the camera views.

Probe received at Sep 6 2012 08:19:55 with signal strength -85 dBm view
Probe received at Sep 6 2012 08:19:55 with signal strength -84 dBm view
Probe received at Sep 20 2012 16:39:08 with signal strength -87 dBm view
Probe received at Sep 20 2012 16:39:14 with signal strength -86 dBm view
Probe received at Sep 21 2012 17:01:44 with signal strength -87 dBm view
Probe received at Sep 27 2012 16:23:28 with signal strength -78 dBm view
Probe received at Sep 28 2012 14:10:44 with signal strength -84 dBm view

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Notes:
1. Able to use mobile-originated, GSM / HSUPA and CDMA cellular data networks with appropriate modem. Tunnels through modem and mobile-originated cellular networks to Boundless' Cloud-based Portal, from which users access the system.
2. Cellular networks are not intended for continuous viewing. Live and recorded video should be viewed only as needed. Recording duration depends on many factors.