# Boundless Security Systems, Inc.
## *the communications bandwidth experts*

Covert cellular IP camera
High definition
Counter-terrorism, counter-drug, counter-gang
Covert Traffic Barrel
Covert Sawhorse Traffic Barricade
Insurance Investigations

# *Ultra Low Bandwidth, 5 MP Covert Cellular Smart Traffic Barricade Camera*
**5 MP camera, video recording, *Smartphone WiFi Monitoring* locating system, and cell communications**

## Benefits

- Set up covert, outdoor, battery powered, **high definition** digital video surveillance in minutes
- View live or internal recordings via a cellular network and the Internet – no need to go to the unit
- Much smaller, lower bandwidth, lower cost, lower power dissipation, and more capable than outdoor covert IP camera with cellular modem
- Multi-purpose (traffic barrel, sawhorse barricade)
- 5 mega-pixel (MP) ¼" CMOS color image sensor – 15X pixels of most outdoor wireless cameras
- Records video internally, avoiding distant network video recorder and constant network traffic, recording better video than could be sent to it, reducing cellular traffic by 500 GB/month
- Fixed focus with focal length for telephoto use
- Dual-stream optimizes wireless remote access: ***monitoring stream*** is live and int. recorded at 960x540 @ 5 fps with high compression, PLUS sharper, ***investigations stream***: 1920x1080 @ 5 fps is int. recorded (programmable streams)
- Rapid access video file system reduces time to view desired video segments
- Int. recorded monitoring stream enables remote viewing of recorded video at accelerated speed
- 256 GB internal solid state storage
- http access to live H264 and rec H.264/MP4 files
- ***Stranger Detector™*** locating system detects *patterns of presence* of persons whose identities are unknown, using WiFi signals broadcast by their mobile devices looking for hotspots, within approx. 150 ft and sends alerts when particular mobile devices are detected; also interfaces to WiFi sensor networks for virtual perimeters
- Low power dissipation, approx 6W with cell modem for AT&T, suitable for external 12V battery
- Industrial grade 3G cellular modem (service not incl.) for wide service area, 4G not required
- 12 VDC nominal, wide range input (10.5 to 13.5) with battery-saving, low voltage shut down
- Cloud-based ***Portal*** for flexible user interface and ability to tunnel through cellular firewalls

*High Definition Yet Ultra Low Bandwidth and Low Power*

Made in USA

1" window for concealed 5 mega-pixel (MP) color camera

**Appears to be light with two lantern batteries for user-supplied sawhorse traffic barricade or traffic barrel, and external battery (light does not function)**

**MOCKUP SHOWN MAY VARY. MIN. QTY. RQD.**

## Setup

User supplies traffic barricade or traffic barrel, large rechargeable battery and charger. User bolts ***Smart Camera*** to traffic barricade or barrel and runs a small power cable from ***Smart Camera*** to a battery that user conceals in the barrel or a faux-sandbag. Use of a high capacity, deep cycle, sealed lead acid, lithium-ion phosphate or other battery is required. A 100 AH, 12V battery should provide approx. one week **continuous** run time under ideal conditions. Remote power management enables system to be turned on and off to extend the number of calendar days of service.

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**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 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.