

the communications bandwidth experts

Covert cellular IP camera High definition, low power Counter-terrorism, counterdrug, counter-gang, SWAT Utility pole camera Rugged traffic trailer camera

#### Low Power, Outdoor 5 MP Covert Cellular Smart µPTZ Camera "Model 2"

Small, inconspicuous, low power, ultra low bandwidth, high definition, custom-preconfigured, covert Benefits cellular system is plug-and-play and intended for use at 50 to 150 yards.

- Turnkey, set up covert outdoor high def digital video surveillance in minutes via cellular network and Internet for both live and recorded video
- · Much smaller, less conspicuous, lower bandwidth, lower power, and more capable than an IP PTZ camera and cell modem in a covert housing
- Very low power dissipation for battery and solar, typ. only 3 to 5 W3 with 3G CDMA cell service
- View natively in browser on PC's and Android. view live on iOS using a media player
- 5 MP, 1/4" CMOS color image sensor with backside illumination for better low light performance
- IR-cut filter is automatically removed in low light
- 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 250+ GB/month
- Unique concealed Forward Pivot™ micro-PTZ camera with four-point suspension is unusually small and rugged yet provides remotely controlled mechanical pan and tilt, and optical zoom, with small window, while avoiding light loss and blurring of conventional camera concealments
- 12-33 mm optical zoom at 1920x1080, +/-22.5° mechanical pan and tilt, with focal lengths for long range use (license plate at 150 yards<sup>5</sup>)
- Dual-stream optimization: *monitoring stream* is live and int. recorded at 960x540 @ 5 fps with high compression, PLUS much sharper, evidentiary stream: 1920x1080 @ 5 fps is int. recorded
- Rapid access video file system greatly reduces time to access and view desired video segments
- 256GB (2+ wk<sup>4</sup>) internal solid state video storage
- Optional Rapid Review<sup>TM</sup> for reviewing recorded video over the air at 120X speed
- Patented Stranger Detector™ locating system detects patterns of presence of persons whose identities are unknown, using WiFi signals broadcast by their mobile devices, within approx. 50 yards (longer with opt. dir. antenna) and sends alerts when particular devices are detected



Small, innocuous, outdoor telecom housing

only 6"H x

8"W x 3.5"D

Custom built and configured in USA

Small, 1" (1.5" shown) clear, scratch and abrasion resistant, polycarbonate plastic window for concealed 5 mega-pixel Forward Pivot™ micro PTZ color camera, optional numerals not shown

- 12 VDC nominal, wide range input (11.5 to 15V) with battery-saving, low voltage shut down
- "Smart" battery monitoring with estimated run time remaining



- Internal battery-free shutdown UPS bridges brief power failures and provides clean shutdowns
- Watchdog timer and remote power management
- · Dual-network: cellular and tunneling through wired LAN (allows chaining of multiple units)
- Industrial grade cell modem<sup>1,2</sup> (svc. not incl.)
- Totally sealed avoids ingress of dust & moisture
- Cloud-based Portal for flexible user interface and ability to tunnel through cellular firewalls
- Very easy to use, one-page instruction sheet
- Custom built and configured



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Vehicle license plate can be read at a distance of approx. 150 yards in daylight at max. zoom



Vehicles approx. 200 yards from camera at night at maximum optical zoom



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Optional *Rapid Review<sup>TM</sup>* / *Integrated Timelapse* speeds up reviewing of recorded video 120X.

BSSI-8 Low Power, 5 MP Covert Cellular Smart Micro-PTZ BSSI-8 Low Power, 5 MP Covert Cellular Smart Micro-PTZ BSSI-8 Low Power, 5 MP Covert Cellular Smart Micro-PTZ Camera with Stranger Detector(TM)

Camera with Stranger Detector(TM)

Camera with Stranger Detector(TM)

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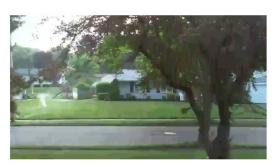
This page has a demo version of our optional, patent-pending, Integrated Timelapse Software that runs within our Smart uPT2 Integrated Timelapse Software that runs within our Smart uPT2 Integrated Timelapse Software that runs within our Smart uPT2 Camera<sup>TM</sup> and reduces time reviewing recorded video 100x. Contact us for more information

This page has a demo version of our optional, patent-pending, Camera<sup>TM</sup> and reduces time reviewing recorded video 100x Contact us for more information.

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Status: Playing delayed live video Date: 5/27/16, 09:44:51 Data rate: low View/Refresh live video | Copy time to time selector Year: 2016 ▼ Month: May ▼ Day: 27 ▼ H(24): 09 ▼ M: 44 ▼ S: 15 ▼ View recorded video Data rate: low ▼ Speed: 1x Type: Normal Download files | Duration: 1 minute ▼ Data rate: low ▼ Type: Normal

Status: Playing recorded video Date: 5/27/16, 06:44:17 Data rate: low View/Refresh live video | Copy time to time selector Year: 2016 ▼ Month: May ▼ Day: 27 ▼ H(24): 06 ▼ M: 44 ▼ S: 15 ▼ View recorded video Data rate: low ▼ Speed: 1x Type: Normal Download files | Duration: 1 minute ▼ Data rate: low ▼ Type: Normal

Date: 5/27/16, 06:04:00 Data rate: low View/Refresh live video | Copy time to time selector Year: 2016 ▼ Month: May ▼ Day: 27 ▼ H(24): 06 ▼ M: 44 ▼ S: 15 ▼

Status: Playing timelapse video, 1-hour files

Download files Duration: 1 minute ▼ Data rate: low ▼ Type: Normal

View recorded video Data rate: low ▼ Speed: 120x ▼

Type: Timelapse ▼ File Duration: Hour ▼

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Initial view from page, showing delayed live video.

View from page showing Normal recorded video being viewed over the air.

View from page showing optional, Timelapse recorded video, being viewed over the air, speeding up the reviewing of recorded video 120X when you don't know when something happened. Click over to Normal recorded video for more details once you know when something occurred.



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## Stranger Detector™ *Sortable Table* User Interface

	l			Payedless Counity	Sustama Ina		<u>^</u>	
				Boundless Security the communications bandwidth	experts			
			Bound	lless' BSSI-8 Stranger Dete	ector™ Sortable	e Table		
			Level	1 Sort by Frequency 🔻 💿	Ascending Des	cending		
Many so	rting fu	nctions			Ascending Des	_		
			Level 1		Ascending Desc	_		
Choose o	ne or me	ore hours	(prev-	Number of Previous Hours to Number of Future Hours to			ng exclusio	
		s starting	••	Hide MAC Addresses in S		recurring M	ual entry	es
		•		Hide MAC Addresses in U		_	uai eiiii y	
				Update Table   Clear All Selection		Video and	Alerts integ	ara
Color-co	ded aro	uns of		Display Skip List View Video	Show/Hide Alerts			
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	of pres		Loca	al Search   Find Presence Elsewh	ere   Wide Area Se	earch acro	ss multiple	
	_		F J	Date/Time	Vendor	MAC Address	G:1	
		Group Select	round	Jan 23 2015 07:42:00.940	Sercomm	00:0e:8f:3a:90:e1	Signal -91	
				Jan 23 2015 07:47:44.065	Serconun	be:86:7a:06:a1:cc	-85	
				Jan 23 2015 07:49:13:454	Hewlett-	00:9c:02:cb:2a:86	-87	
	0			Jan 23 2015 07:59:47.406	Hewlett-	28:9a:fa:ea:cd:28	-83	
	0			Jan 23 2015 07:40:39.516		16:de:32:e2:8e:ab	-75	
	0			Jan 23 2015 07:40:59:510		16:de:32:e2:8e:ab	-73	
	0			Jan 23 2015 07:42:34:310	01-	20:c9:d0:74:d4:25		
					Apple		-87	
	0			Jan 23 2015 07:41:15.682	Apple	20:c9:d0:74:d4:25	-83	
	0			Jan 23 2015 07:58:07.989		48:d7:05:8e:8c:62	-87	
	0			Jan 23 2015 07:58:19.695		48:d7:05:8e:8c:62	-89	
				Jan 23 2015 07:50:28.436		a6:c0:04:19:3a:e9	-77	
				Jan 23 2015 07:54:58.421		a6:c0:04:19:3a:e9	-79	
	0			Jan 23 2015 07:05:26.460	Apple	c8:bc:c8:bc:53:6b	-37	
	0			Jan 23 2015 07:05:33.970	Apple	c8:bc:c8:bc:53:6b	-37	
	0			Jan 23 2015 07:33:13.935		c2:4e:b2:b2:eb:34	-75	
				Jan 23 2015 07:35:28.926		c2:4e:b2:b2:eb:34	-75	
	0			Jan 23 2015 07:24:42.283		ea:a4:80:db:d6:cc	-77	
	0			Jan 23 2015 07:26:57.276		ea:a4:80:db:d6:cc	-77	
				Tem 22 2015 07:17:40 606		600.02.46074	05	



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Please see our White Paper on *Smartphone WiFi Monitoring* integrated with outdoor video surveillance, aka *Stranger Detector* \*\*. <a href="http://tinyurl.com/cgycmxm">http://tinyurl.com/cgycmxm</a>

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, 3G and 3.5G cellular data networks with appropriate modem built-in. 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.
- 3. Power dissipation and run time on a battery charge depend on many factors. Figures are not guaranteed.
- 4. Storage duration is typical but not guaranteed.
- 5. Distance for reading a license plate from the best quality, recorded video at maximum zoom is typical but not guaranteed.