



# Boundless Security Systems, Inc.

*the communications bandwidth experts*

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FOR IMMEDIATE RELEASE

## Outdoor Covert Video Surveillance by the Pound:

**Boundless Security's *Outdoor Covert Cellular Smart uPTZ Camera* achieves one day's HD run time 24/7 per pound of LiFePO4 battery, reinventing unmanned video surveillance**

Feb. 9, 2017. Boundless Security Systems, Inc., BoundlessSecurity.com, Newtown, CT, announces that it has reduced the power dissipation of a high definition, outdoor cellular covert true-PTZ camera with long continuous internal video recording to a mere 2.0 watts, 10X better than anyone else. This provides a continuous run time of one day per pound of LiFePO4 battery. Run time per battery weight profoundly affects mission length, camera size and portability, all of which Boundless greatly improves. Long continuous run times and subject distances of 450 feet, with full remote access and control via a cellular network and the Internet, on a small battery or small solar power system, in a small form factor, are now feasible.

Boundless' *Smart uPTZ Camera* captures sharp, 1920x1080 video continuously, so nothing is missed, not occasional short video clips. Its superior run time per pound of battery results in part from Boundless' patent-pending, *forward-pivot*, micro-PTZ camera that provides motorized pan and tilt, with large viewing angles, and motorized optical zoom, all remotely controlled via the Internet, while using a window just 1" dia. Tilt movement is both up and down, not just unidirectional with ordinary PTZ cameras, enabling Boundless' *Smart uPTZ Camera* to be placed high or low, not just look down from above. Boundless' multi mega-pixel, motorized telephoto zoom lens and sharp internal video recording enable reading a license plate at 450 feet.

*"The entire pole-mount camera, not including batteries, is a mere 6" high x 8" wide by 3.5" deep -- about the lateral size of an outstretched hand -- and weighs only 5 pounds without batteries. Our cylindrical model is only 3.5" dia x 8" long and weighs just 3 pounds without external batteries,"* according to Steve Morton, Boundless' CEO and system architect.

*"Continuous run times of a week to a month with a small LiFePO4 battery, which provides much*

*better performance than lead acid batteries, can now be achieved. Rapid deployment and long missions without the need for AC power are now readily possible.”*

Video is recorded continuously internally on a 256 GB solid state disk. Problematic, short range, passive infrared (PIR)-triggered capture of short video clips is not used. Cellular bandwidth is slashed by a staggering 250 GB/month compared to streaming to a distant network video recorder. An industrial grade cellular modem that is active on a schedule is used, for full remote access to live and recorded video, and PTZ camera control.

In addition, Boundless' optional **Rapid Review / Integrated Timelapse** enables viewing an hour or a day in just 30 seconds, over the air, a huge time-saver. It enables drilling down to the normal recorded video for more details. Every hour, the **Smart uPTZ Camera** internally creates a 960x540 timelapse video of the previous hour, with one snapshot every 30 seconds, and every day, of the previous day, with one snapshot every 15 minutes.

Boundless' **Smart uPTZ Camera** has a 5 MP image sensor and can be mounted rotated in 90-degree increments with pan, tilt and video orientation adjusted in software. Full 1920x1080 resolution is provided in all orientations. This provides great flexibility for placing Boundless' **Smart uPTZ Camera** in rectangular or cylindrical housings, in various orientations, for application-specific concealment.

## Photos

(Shown below approx. to common scale. For size reference, the tiles are 12" square.)



***Covert Smart uPTZ Pole Camera***

Case: 6”H x 8”W x 3.5”D, 5#, not including power source



***Covert Cylindrical Smart uPTZ Camera***

Case: 8”H x 3.5”dia., 3#, not including power source, cell antenna not shown

**Pole Camera Photo:**

Click this link <http://preview.tinyurl.com/zb2noub> for  
[www.BoundlessSecurity.com/images/BoundlessSecurity-Smart-uPTZ-Pole-Camera-DSCN2868-c2017.jpg](http://www.BoundlessSecurity.com/images/BoundlessSecurity-Smart-uPTZ-Pole-Camera-DSCN2868-c2017.jpg)

**Cylindrical Camera Photo:**

Click this link <http://preview.tinyurl.com/zrljfxj> for  
[www.BoundlessSecurity.com/images/BoundlessSecurity-Cylindrical-Covert-Smart-uPTZ-Camera-DSCN2553-c2017.jpg](http://www.BoundlessSecurity.com/images/BoundlessSecurity-Cylindrical-Covert-Smart-uPTZ-Camera-DSCN2553-c2017.jpg)

## **Literature:**

Click this link <http://preview.tinyurl.com/j8b66ra> for  
[www.BoundlessSecurity.com/documents/BoundlessSecurity-Low-Power-Outdoor-Covert-Cellular-Smart-uPTZ-Pole-Cameras-Reinventing-Unmanned-Video-Surveillance.pdf](http://www.BoundlessSecurity.com/documents/BoundlessSecurity-Low-Power-Outdoor-Covert-Cellular-Smart-uPTZ-Pole-Cameras-Reinventing-Unmanned-Video-Surveillance.pdf)

## **About Boundless Security Systems, Inc.**

Boundless Security Systems, Inc., BoundlessSecurity.com, was founded in 2003. It specializes in ultra low bandwidth, cellular, outdoor covert video surveillance. Steve Morton is its CEO/CTO. He has a BSEE/MSEE from MIT and has been awarded 22 US Patents. More are pending.

## **Keywords**

#cellular pole cameras, #PTZ cameras, #outdoor covert video surveillance, #low power, #battery power, #solar power, #rapid deployment, #private investigators

## **Interviews**

For more information or to schedule an interview, please call Steve Morton at 203-445-0562, or e-mail him at info (at) BoundlessSecurity (dot) com.

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