

## ***Customs and Border Protection (CBP) Border Security Deployment Project (BSDP)***

As America's frontline for homeland defense, U.S. Customs and Border Protection (CBP) is responsible for defending the border between the United States and Canada against the unauthorized entry of terrorists and terrorist weapons, illicit drugs, and illegal aliens.

In order to monitor and protect the nation against these unlawful admissions across the U.S. northern border, CBP engaged Sentrillion Corp. to install an intelligent video surveillance and security solution at 129 land Ports of Entry (LPOEs). Sentrillion's physical security system provides each LPOE with increased perimeter and internal security, enhanced situational awareness and personal safety for CBP officers, and a record of all port activities. Additionally, Sentrillion binds the frontline by unifying LPOEs to central command and control centers capable of monitoring port activities from remote locations. Sentrillion used a comprehensive system-of-systems approach that allowed maximum flexibility in the design of solutions for LPOE as each is unique in facility design, operational environment, and physical environmental factors.

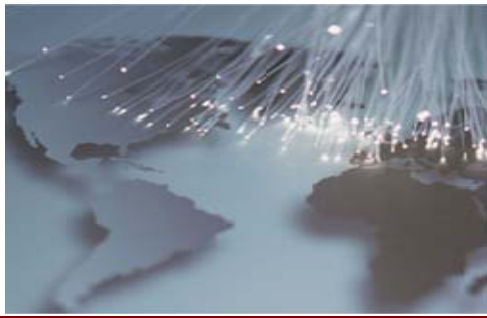


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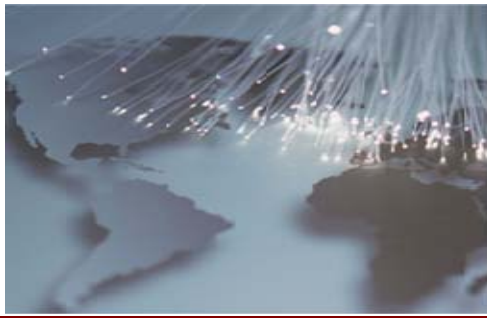
## ***Remote Video Surveillance System (RVSS)***

Sentrillion developed an integrated thermal imaging video surveillance system that provides surveillance of remote area avenues of approach (sub-system of the VSS).



The RVSS requires no existing power infrastructure at the installation site and is fully self-supporting (power and communications), providing long range (18 Km) video surveillance in day/night all weather environments. The RVSS includes the option of a ground-based radar system synchronized with the camera system.

Ground based radar is used to detect intruders over extended ranges and is linked with the RVSS for use in remote areas in between LPOE, or to extend operational capabilities around the LPOE. Ground based radar provides early warning and sends both visual and audible alarms to the command center. Additionally, it collects data on the number of intruders, direction of movement, and speed of movement that aids in apprehension/interdiction operations.



### Power System:

- Design output: 9 Amps at 12VDC, 24/7.
- Solar panels: 6 each 115 Watts for 690 Watts total.
- Inverter: 115Volt/600 Watt output, true sine wave.
- Wind turbine: 400 Watts in 28 mph wind.
- Solar charger/controller: 60 Amp capacity.
- Battery bank: 10 each 104 Amp-hour batteries.
- No input battery backup time = 4.8 days.

### Communications:

- Features: Video, 2 way Data, and Audio
- Distance of link: 6.2 Miles
- Transmission: IP- Based
- Video Encoder: Verint S1600 series
- Repeater: Verint S3100 - RP
- Bridge: Verint S3100

### Camera System:

- Camera: AXSYS Extreme – X
- Features: Integrated and Joystick controlled Pan/Tilt and Camera Functions
- Distance: Man-sized object at 18 kilometers
- Pan/ Tilt: Pelco, Quickset and Vicon
- Recording: 4CIF, 30 FPS

