

UF500 Brings PTZ Domes Out of Darkness

Sempra Energy of California uses UF500 Infrared Illuminators to enable Pan-Tilt-Zoom (PTZ) domes for 24/7 surveillance at its critical infrastructure sites. Sempra oversees the operations at each of these locations, which are involved in various aspects of generation, storage, transmission and distribution of both gas and electricity.

“Being able to see at night is important. We have obtained successful prosecutions with the use of videos that we have taken of crimes that have occurred in the middle of the night.”

Gary Stephens, Security Manager
Sempra Energy Corporate Security & Emergency Preparedness

Problem 1

No Usable Night-Time Pictures from Speed Domes

- Sites are dark at night
- “Day-Night” speed domes produce poor, unusable pictures under low light
- Specific locations must remain dark at night to not draw attention
- Not practical to illuminate large perimeters with conventional lighting

Problem 2

A Matter of Speed Dome Sensitivity

- Speed domes have very limited IR spectral response
- Only illuminators with shorter near-IR wavelengths are compatible
- Wavelengths 750nm and above cannot be seen by the speed domes

Solution

Extreme’s UF500 Infrared Illuminators Enable 24/7 Performance

- 730nm output matches spectral response for speed dome sensors
- Wide-beam illuminators cover broad areas to support speed domes
- Greatly enhanced video with high-resolution, high SN ratio images
- Illuminated areas remain dark to the human eye, preventing light pollution

Results

Extreme Technology Improves Security at Critical Infrastructure Site

- Night-time capability for pre-existing daytime-only speed domes
- High-resolution surveillance on 24/7 basis
- Valuable night-time video evidence used to help prosecute criminals
- Upgraded security to ease Homeland Security concerns

Recent Applications

- [Lake Huron Water Supply uses Extreme Infrared](#)
- [Extreme Secures Naval Facility](#)
- [US Military Airbases Upgrade Security with Extreme Infrared](#)
- [Extreme Infrared to Illuminate Egyptian Pyramids](#)



Pointed towards dark areas of sensitive locations, UF500 IR Illuminators used with PTZ domes enable effective surveillance even under night-time hours. Patent# 6158879.



High-resolution surveillance video taken from the middle of the night has helped site operators prosecute criminals.

For further info on how Extreme CCTV products can benefit your next security project, please contact:

Toll Free (NA): 1-888-409-2288
or Sales@ExtremeCCTV.com.

Specifications are subject to change without notice

UF500-PTZ-dome-support-casestudy

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U.S. Patent #6158879: UF Series
U.S. Patent Pending: REG/DXL Series



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