

## Active-IR Outperforms Thermal

### Compelling Benefits at Water Utility Site

Extreme CCTV's Active-Infrared equipment recently replaced thermal imaging equipment at a major Central Florida water utility. Active-IR has delivered several benefits in a much more successful and cost-effective solution.

***"Our client was amazed by the clarity of the video - even at night. The scenes are brilliantly illuminated, yet because infrared is covert, would-be trespassers think they're protected by darkness. With the Day/Night cameras and IR illuminators, it's like a stadium lighting package - but without disturbing the residential neighbors."***



Craig Bowman  
SiteSecure ([www.sitesecure.com](http://www.sitesecure.com))

#### Problem: Thermal Cameras Not Performing Well

- Poor resolution of thermal images, typically 320 x 240 pixels
- Performance susceptible to thermal waves during climate changes
- Thermal zoom lenses not an option due to high cost
- Very high failure rate (65%) of mechanical shutters in thermal cameras at end of 2-year warranty period

#### Solution: Active-IR Outperforms Thermal for Many Applications

- Active-IR provides much higher resolution than thermal
- Higher reliability of Active-IR results in fewer product failures
- Active-IR night vision does not rely on temperature differentials
- Active-IR uses standard CCTV components, very cost-effective
- Active-IR uses standard CCTV lenses for outstanding zoom capability

#### Additional Benefits: Active-Infrared Delivers More

- Improved digital video motion detection (DVMD) capability
- Active-infrared allows for seeing and reading of signs and markings
- Infrared illumination improved performance of existing PTZ cameras
- Effective night vision surveillance without expensive floodlighting, light pollution or sleepless neighbours
- Low power consumption

#### Results

##### Outstanding Surveillance Capability on a 24/7 basis, Day and Night

- High resolution surveillance under day and dark conditions
- Admissible video evidence for courts of law
- Reduction in false alarms
- Reduced equipment and maintenance costs
- Expanded system capability including zoom and improved DVMD

#### Related documents:

- [Thermal vs. Active White Paper](#)

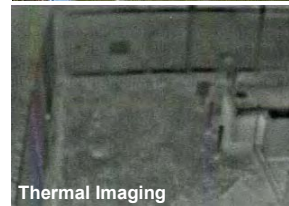
For further info on how Extreme CCTV products can be applied at your next project, please contact: Toll Free (NA): 1-888-409-2288 or [Sales@ExtremeCCTV.com](mailto:Sales@ExtremeCCTV.com).

Specifications are subject to change without notice

Upgrading-from-Thermal-to-Active-casestudy



Active-Infrared delivers excellent color imaging during day and high-resolution monochrome at night. Note the number "1" clearly visible at top right in the active-infrared images.



In addition to enabling high-resolution surveillance, active-infrared also improved performance of PTZ cameras and eliminated the need to install costly flood lighting.