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The Worlds Largest Thermal Imaging Company

Commercial Systems Government Systems

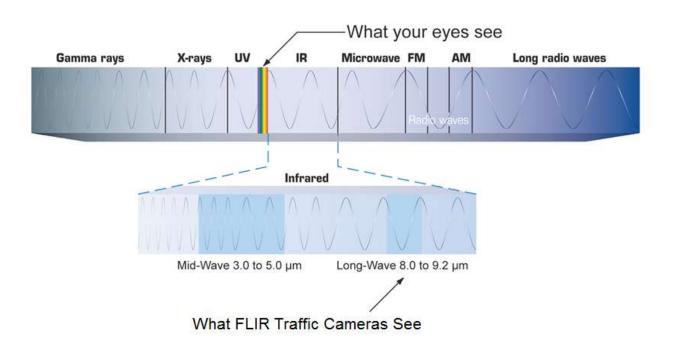


3,000+ employees at 4 major sites around the world 2010 Revenue \$1.4 Billion



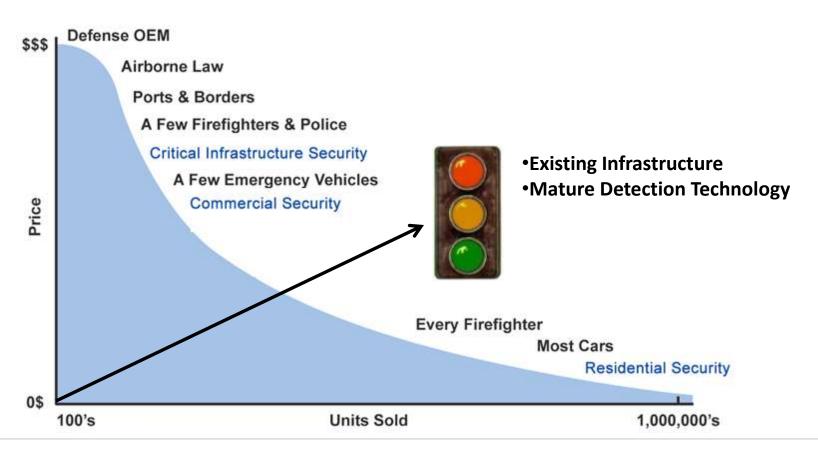
What Makes FLIR Thermal Imaging Unique?

FLIR Thermal Imaging is **NOT Infra Red** (IR) Illumination





FLIR for Traffic-Why now?





Video Challenges for Traffic Detection



Horizon

- Sunrise
- Sunset
- Backlight



Lighting

- Low Illumination
- •Glare/Shadows
- Head Lights
- Wet Roads



Contrast

- Low Vehicle/Road Contrast
- Vehicle lost in shadow



Weather

- Fog
- Rain
- Snow



Sunrise / Sunset / Backlight





Limited Illumination / Darkness





Heavy Snow





Morning Fog





Traficon







Iteris









Texas Department of Transportation

Providing safe, effective, and efficient movement of people and goods.





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Visible CCTV



Thermal



FLIR Sunset / Backlight Issues Eliminated







Thermal





FLIR Blinded by the Lights, Not with Thermal



Visible CCTV



Thermal











Simple Installation







No Low Contrast Zones
No Fog Zones
Simple Retrofit







Other Thermal Detection Benefits



Green Design Criteria

• Minimize Scene Illumination, lower implementation cost



Simplify Programming

- Lower Installation Labor
- Reduce Punch List & Return Trip Costs



Reduce Unplanned Maintenance

Minimize Service Calls During Inclement Weather



No Optical Lens to Clean

Lowers Operating & Maintenance Costs



Other ITS Applications



- Counts
- Incident Detection
- Animal Detection
- Ped and Bicycle Detection
- Tunnels (Emergency & Traffic Flow)
- Construction Zones
- Transit Pre-Emption



Traffic Optimized Thermal



Standard Security Settings



Enhanced for Traffic DDE





Nothing in the Ground
No RF Issues
No Exposed External Hardware
No New Software to Learn
No Optical Lenses to Clean
MTBF 12.4 Years























TEXAS DEPARTMENT OF TRANSPORTATION





















































