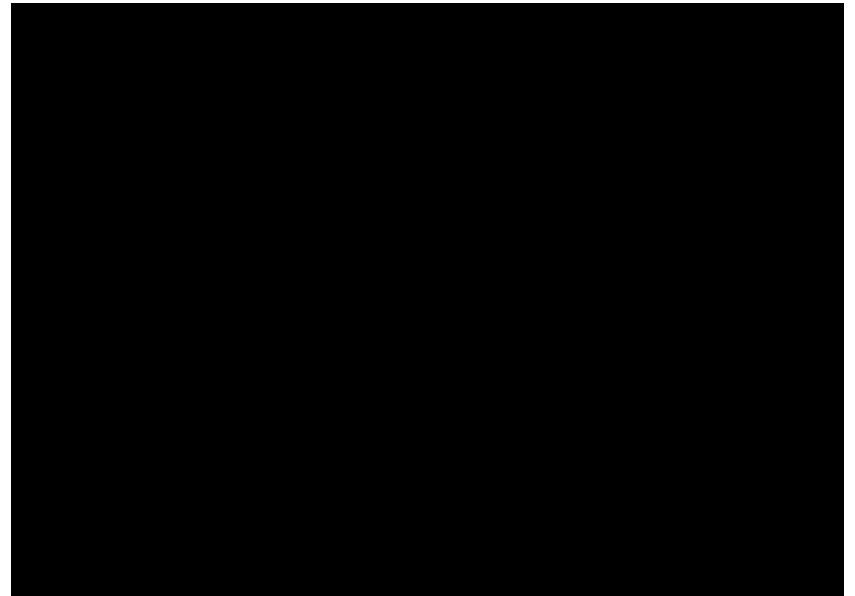
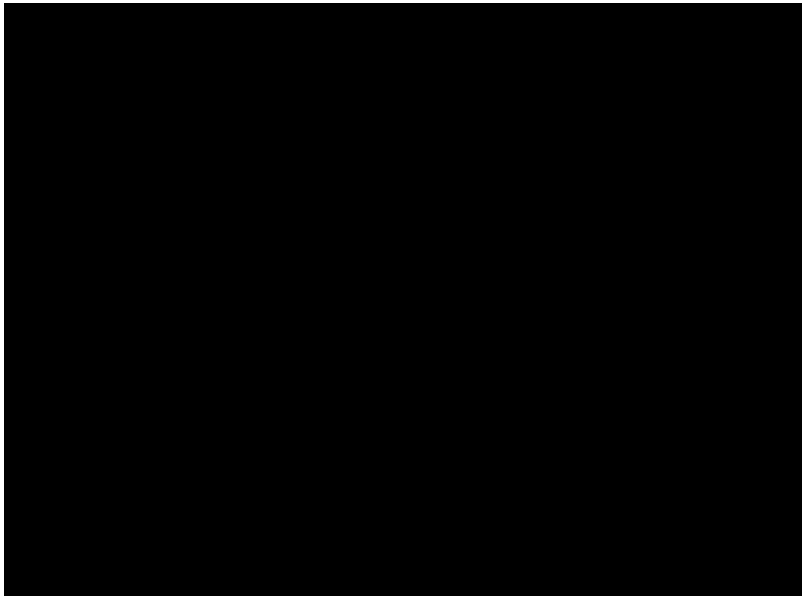


# Fire Service Use of Thermal Imaging Cameras

# Thermal Imaging Cameras

- From Military Technology
- Law Enforcement – 1980s
- Widespread Fire Service Use – Late 1990s



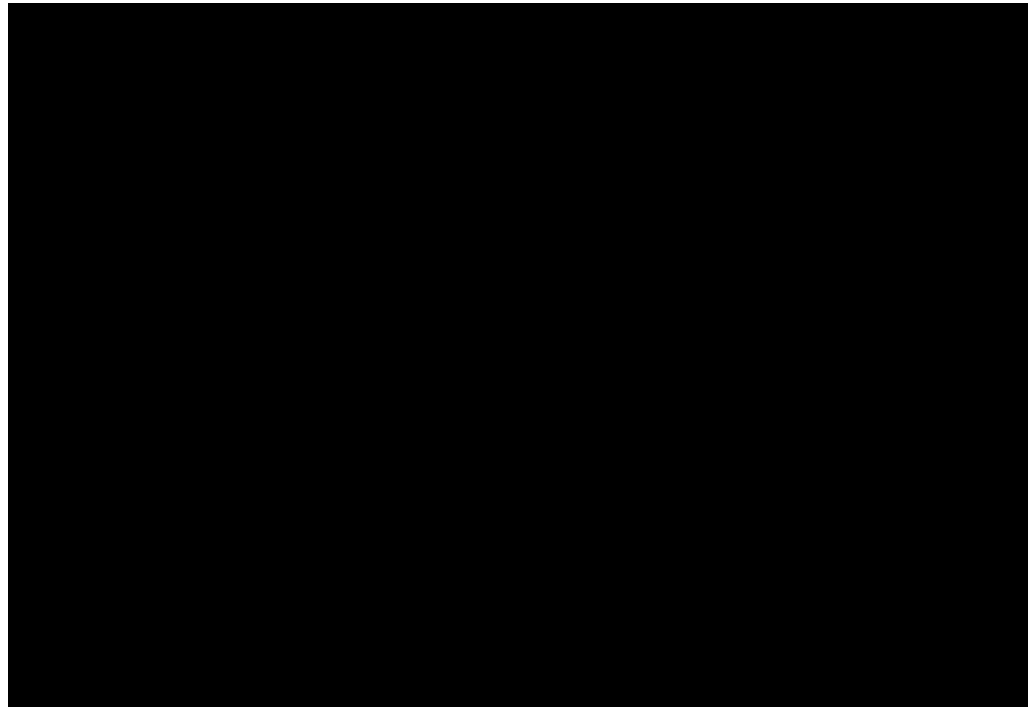
# Thermal Imaging Cameras (TICs)

- Sensitive To Infrared Energy
- They “See” Heat



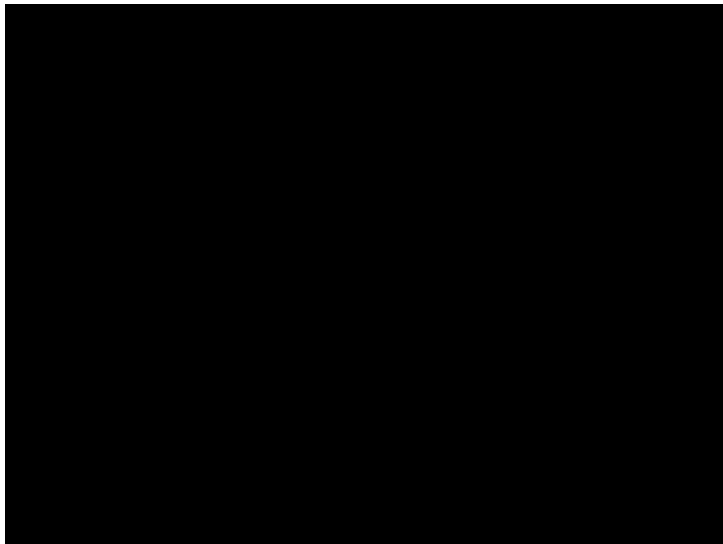
# Thermal Imaging Cameras (TICs)

- *Warmer Appears Lighter*



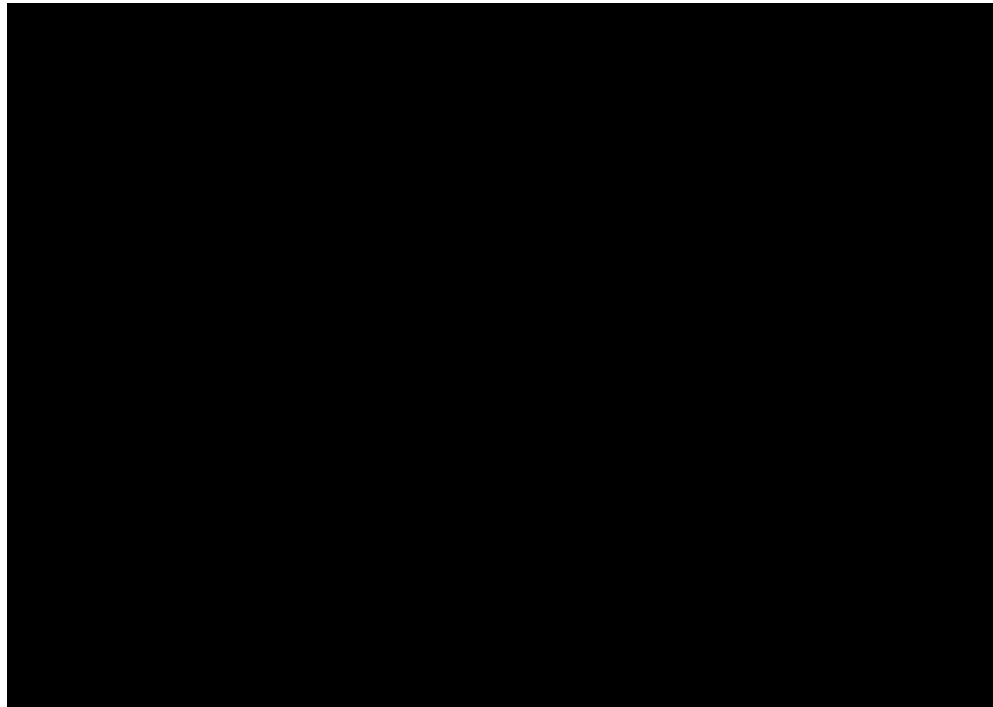
# TICs Make It Possible To...

- “See” Heat
  - Find Fire
  - Find Victims



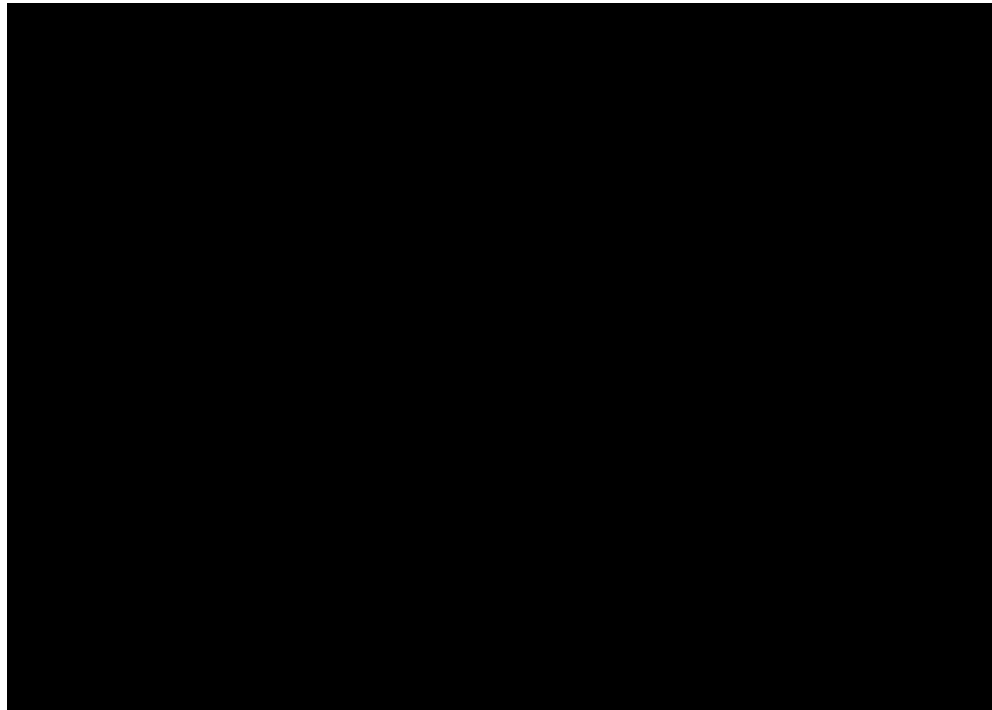
# TICs Make It Possible To...

- See In Complete Darkness



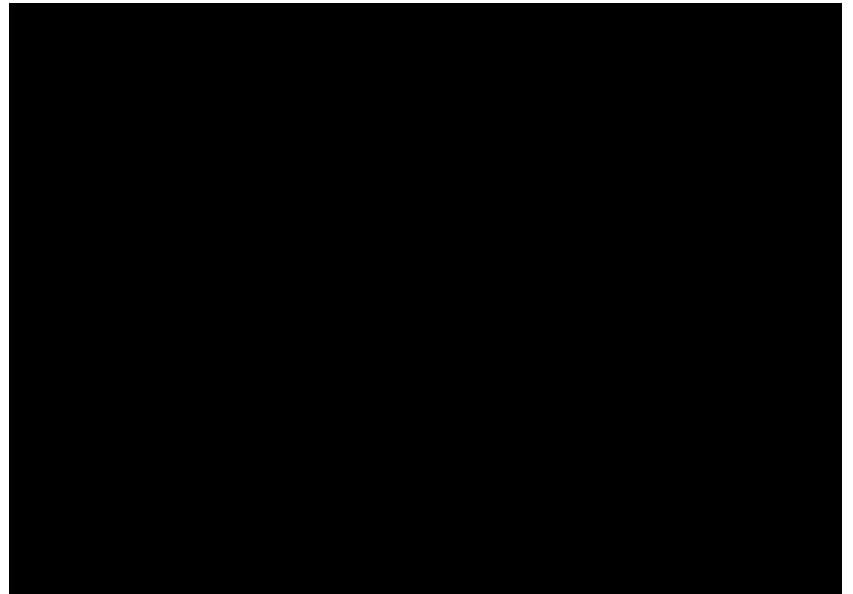
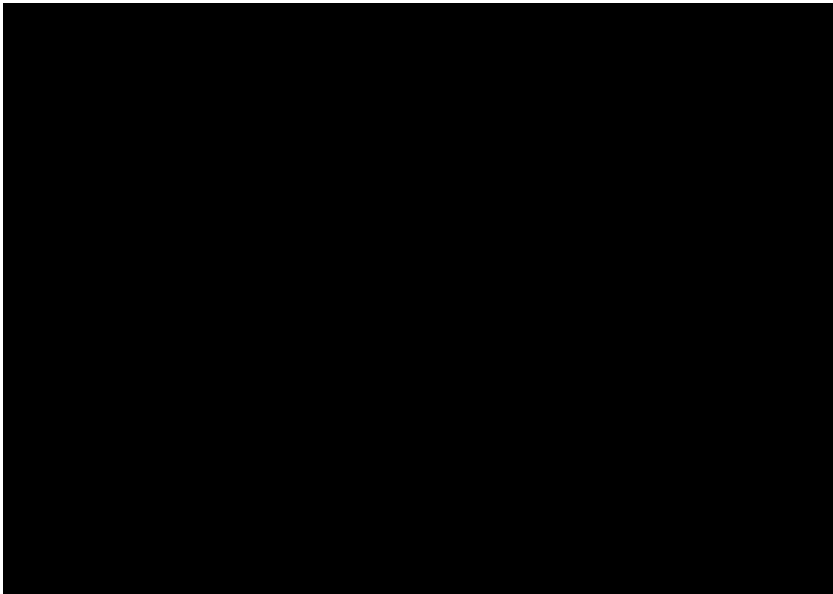
# TICs Make It Possible To...

- See Through Smoke



# Benefits For The Fire Service

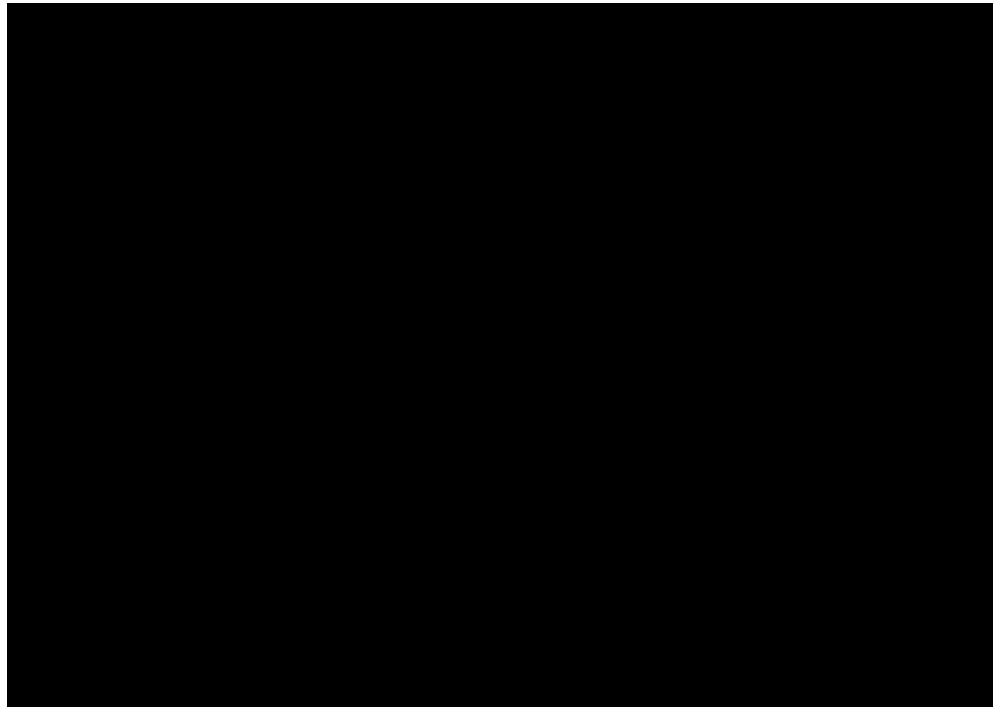
- Faster, More Efficient Search  
(Life Safety Is Our #1 Priority)





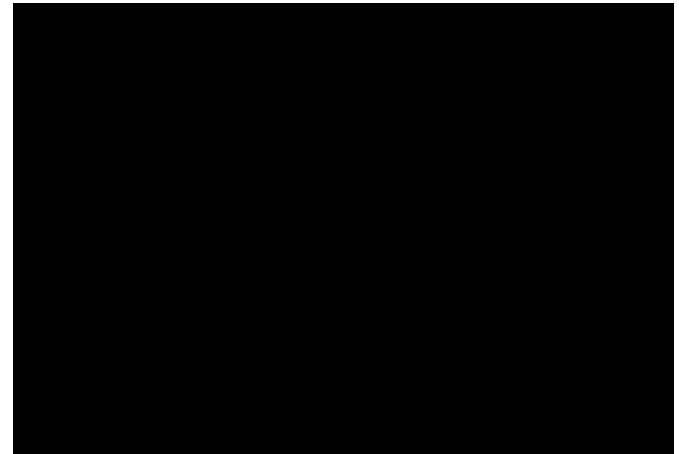
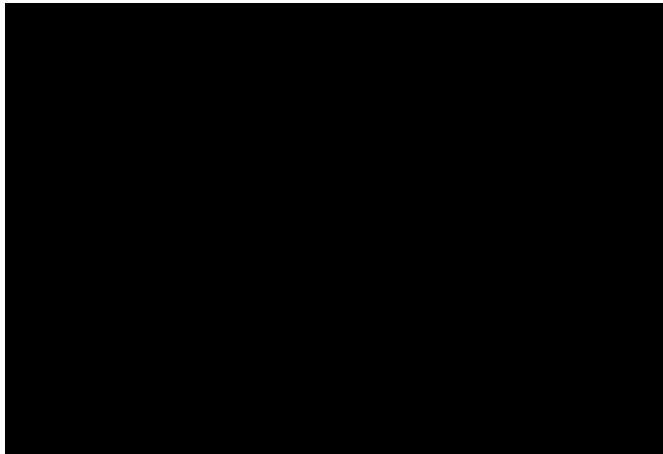
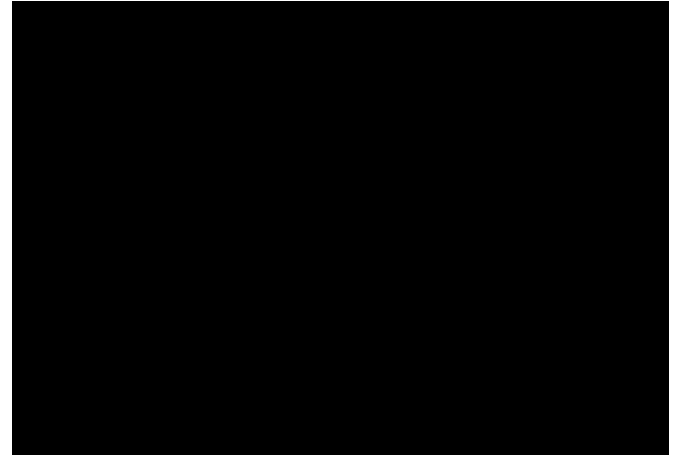
# Benefits For The Fire Service

- Locating The Fire



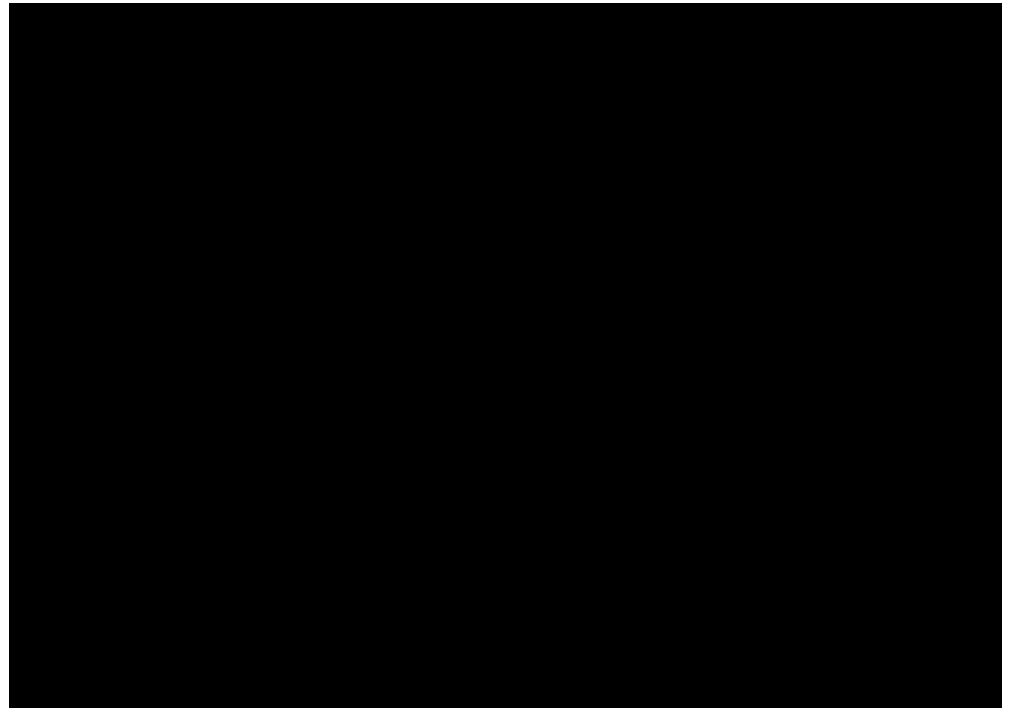
# Benefits For The Fire Service

- Firefighter Safety
  - Situational Awareness
  - Structural Size-Up
  - Lost / Trapped Firefighters



# Dallas Fire-Rescue Thermal Imaging Cameras

# Dallas Fire-Rescue Thermal Imaging Cameras



# Deployment

- 1999
  - First 15 Purchased
  - On Command Vehicles
- 2005
  - Added 10
  - Redeployed To Truck Companies
- 2007
  - Added 30: Funding for 5 was donated
  - All trucks + 9 engines + Back On Command Vehicles
- 2008
  - Add 45
  - All Trucks, All Engines, All Command Vehicles

# Cost

- Initial Cost  $\approx$  \$14,000
- Current Cost  $\approx$  \$10,000
- Funding – 2008 Urban Area Security Initiative Grant

# Fire Service Use of Thermal Imaging Cameras

Questions?