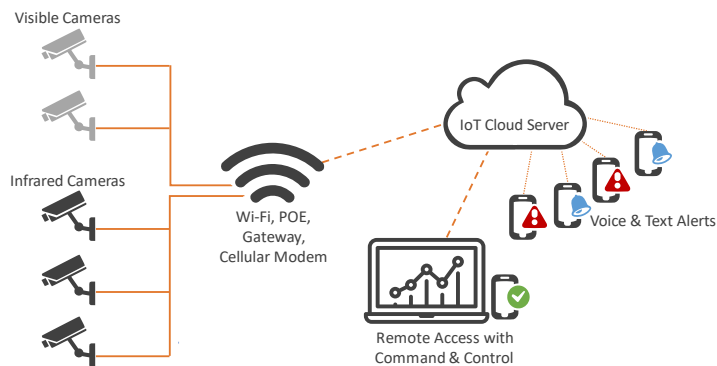




Intelligent Early Fire Detection

MoviTHERM iEFD is an intelligent fire detection solution that uses thermal imaging and other sensing technology to detect fire formation at the earliest stage. Leveraging IoT connectivity with cloud computing, MoviTHERM iEFD more efficiently detects and alerts potential hazards with low installation and maintenance costs. MoviTHERM iEFD can scale to monitor multiple sites from a central location anywhere in the world.



Example MoviTHERM iEFD Configuration

EARLIEST STAGE FIRE DETECTION

Thermal Imaging cameras “see” hot spots before smoke and fire form.

- Thousands of measurement spots with accurate, repeatable results.
- Monitor large areas with a single camera or zoom into critical locations.
- Ruggedized for industrial settings for long-life reliable detection.

CLOUD-BASED IoT ADVANTAGE

The cloud-based platform allows trouble-free, reliable access.

- No software to install or maintain as the application resides in the cloud.
- Monitor conditions from any device from anywhere with an internet connection.
- Reduces hardware, costs, and the maintenance burden.

COMPLETE SITUATIONAL AWARENESS

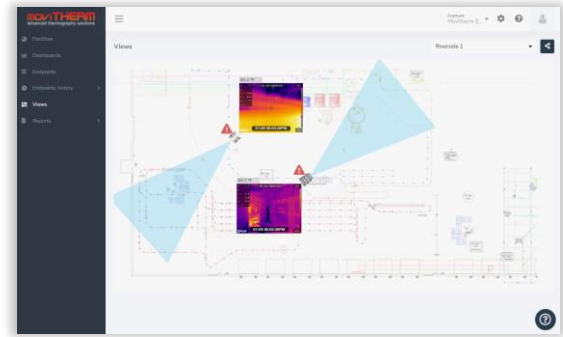
Always “in the know” and informed at the first signs of danger.

- Programmable voice, text, & email alerts ensure conditions get communicated.
- Multi-sensor compatibility connects the best technology for detection.
- Easily scalable to monitor multiple locations in a single dashboard.

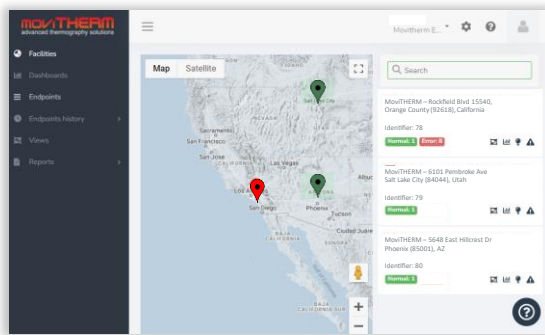


Secure cloud-based application for Early Fire Detection

iEFD Cloud is an IoT application subscription for managing MoviTHERM's iEFD solution. As the application resides in the cloud, it simplifies installation, reduces maintenance costs, provides easy access from anywhere in the world, improves situational awareness, and ultimately keeps people and assets safe from fire.



A map display gives first responders a forward-looking view showing sensor locations, sensor coverage, camera images, and alarm status, allowing for an informative situation assessment before entering the scene.



Multiple sites can be monitored from a single dashboard with the ability to "drill down" for a more detailed look.



A customizable comprehensive dashboard display highlights sensor measurements, camera imagery, sensor health, and alarm status.

Specifications

Infrared Camera

Available Resolutions	160 x 120, 464 x 348, or 640 x 480
Detector	Uncooled LWIR
Camera Power	Power over Ethernet Switch

Sensors Others

Smoke Detectors	Ionization and Photo-Electric Types, LoRaWAN
Surveillance Cameras	Visible light cameras
VMS	Video Management & Recording System, upon request
Digital Inputs	Monitoring of alarm or event inputs from other devices via digital input

Alerts, Alarms, & Reports

Notifications	Alerts & Alarm notification via text message, Email, and Dashboard
Auto-Dialer	Virtual Auto-Dialer, Configurable Phone Numbers and Contact Names, Message creation via Text-to-Speech interface
Reports	Dashboard Reports, Scheduled reports via email, customizable for daily, weekly, monthly
Alarm Outputs	Digital Out, Relay out, Solid State Relay out for local annunciators etc.
Alarm Response Time	Locally via Gateway immediately upon breach of alarm threshold. Gateway signals cloud server an alarm condition, independent of cloud data update rate.

Cloud & Gateway Communications

Internet Connection	Industrial Cellular Modem, 3G, 4G, 5G*, LTE or via existing customer network (*where available)
Cellular Carriers	T-Mobile and Multi-Carrier Plans available, world-wide support
SIM Card	Industrial Grade with automatic failover - requires multi-carrier plan
Cyber Security	Web Interface: 2048 bit SSL Encryption, HTTPS, Secure MQTT, Encrypted VPN
Remote Support	via Encrypted VPN, included with all subscriptions
Local Deployment	Local Deployment available with server on premises. Does not require any Cloud Server or Internet connection.
Gateways & Protocols	WiFi, ModBUS RTU/TCP, Ethernet/IP, MQTT, RestAPI, LoRaWAN, OPC UA, HTTPS, Pi Historian, 4 to 20mA, 0 to 10VDC, RS-485, RS-232. Others upon request
Gateways	Configurable, Edge AI, allow complex logic to be executed at the edge

*Specifications subject to change without notice. 2/2022

*Exact system components and IR camera model are site dependent.