**TELEDYNE FLIR LAUNCHES A500f/A700f CAMERAS FOR FIRE DETECTION AND CONDITION MONITORING**

The FLIR A500f and A700f Advanced Smart Sensor ruggedized thermal cameras feature high-temperature detection for extreme environments paired with on-camera analytics and alarm capabilities – ideal for industrial early fire detection or outdoor condition monitoring applications. Along with enhanced spot, area, line, polygon, and polyline analytic functions that improve the definition of areas of interest and object curvatures, the A500f/A700f can help commercial and industrial organizations protect assets, improve safety, maximize uptime, and minimize maintenance costs.

**Fire Detection and Condition Monitoring for Industrial Facilities**

For early fire detection, the A500f and A700f thermal cameras can quickly identify increased temperatures related to potentially dangerous conditions.

If smoke is present, the cameras can help provide increased awareness for decision makers to properly assess and address incidents. Both cameras feature [Flexible Scene Enhancement (FSX)](https://www.flir.com/discover/instruments/firefighting/flexible-scene-enhancement/) technology, found on Teledyne FLIR K-Series handheld firefighting devices. The result is an ultra-sharp, finer-textured image that shows subtler edge details supplied by the embedded visible camera onto the thermal image, enabling operators to recognize objects and people more easily.

The A500f/A700f are also effective tools for pile-burn monitoring, providing automated early warnings for potential issues in waste management facilities or coal collection areas that operate around the clock.

Manufacturing facilities, chemical processing locations, or power substations that use common communications and control language can also benefit from the A500f and A700f beyond fire detection. These cameras empower those organizations to reduce maintenance costs by identifying heat anomalies from mechanical problems early, thereby extending the life of plant components while maximizing uptime.

**Effective Ruggedness and Thermal Range for Outdoor Applications**

Featuring a protective IP67-rated housing designed to withstand temperatures between -30° to 50°C (-22° to 112° F), the A500f/A700f cameras are designed for harsh environments and discreet enough to deter from theft. In addition, the cameras use a single power-over-Ethernet (PoE) cable for both power and communication, helping to further minimize points of potential failure.

The A500f/A700f offers superior thermal imaging capability with a resolution of 464 x 348 (161,472) for the A500f and 640 x 480 (307,200) thermal pixel resolution for the A700f. Users can expect a ±2° C (±‐3.6° F) temperature measurement accuracy.

The A500f has a temperature detection range between -20° to 1500°C (-4° to 2732° F), while the A700f offers a temperature range of between 20° to 2000°C (68° to 3632°F) for detecting chemical fires and other extreme industrial fire conditions.

Along with thermal lens options ranging from 14° to 42° and an embedded HD visible camera, these devices fulfill the needs of most outdoor condition monitoring and fire detection applications.

**Seamless Integration and Set Up**

Installing the FLIR A500f/A700f cameras is seamless. Both cameras are ONVIF compliant and integrate easily into standard security VMS and NVR solutions including control of pan/tilts.

For VMS integrations, thermal and visible streams can be viewed independently or simultaneously. The cameras are easy to add, set up, and operate in HMI (Human Machine Interface) SCADA (supervisory control and data acquisition) systems, offering automation system solution providers a running start. Both the A500f and A700f fully support IIoT protocols such as MQTT (Message Queuing Telemetry Transport) and RESTful API with a system unique token key for extra security.

The FLIR A500f and the A700f are available now through Teledyne FLIR distributors. For more information, please visit [www.teledyneflir.com/products/a500f\_a700f-environmental-housing-camera](http://www.teledyneflir.com/products/a500f_a700f-environmental-housing-camera).