

Aretas Aerial

# FIRE RESCUE UAV SOLUTIONS

**Aretas Aerial**

*a division of Aretas Sensor Networks, Inc.*

877.218.6232

[www.aretasaerial.com](http://www.aretasaerial.com)

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# FIRE RESCUE UAV SOLUTIONS

Search & Rescue | Emergency Assessments | Inspections

## UAV SYSTEMS

### 1. UAV VEHICLE

We help choose the right UAV for your specific needs



### 2. COMPONENTS PAYLOAD

The right components for the job which can include:

#### FLIR THERMAL IMAGING



#### HD VIDEO & PHOTOGRAPHY



### 3. LIVE & ARCHIVED DATA

Live on-site data for immediate decision making. Archived data for investigations



#### ADDITIONAL SENSOR OPTIONS

**Rad** Radiation Detection  
**PM** Particulate levels  
**VOC** Volatile Organic Compounds  
**O3** Ozone  
**LIDAR** Distance and mapping

*More options available*

## Overview

Fire service personnel have a new tool for fire investigation, size up and accident scene documentation. The Aretas Aerial Fire & Rescue UAV solution was designed specifically to meet the complex needs of the Fire Service industry. There are many challenges facing fire & rescue departments during their response to emergency situations and having accurate real-time information can make a significant difference in saving lives and property while collecting the information needed for investigations.

## Multiple Solution

There are many solutions a UAV can provide for the Fire Service industry. As an example, accurately documenting the scene and performing perimeter searches. With the latest UAV technology, 360 surveys of a fire scene are simplified, perimeter thermal imaging searches can be done quickly and effectively with the onboard FLIR camera and live base-station monitors.

Other solutions include:

- Live overview of an incident scene
- Investigation data gathering
- Industrial inspections
- Inspecting inaccessible or dangerous areas

## UAV Components & Specifications



### FD1 - Fire Service UAV

#### UAV Specs

- Distance: Line-of-sight
- Size: Rotor tip to tip 41in / 104cm
- Battery: 4s 6000mAh LIPO
- Flight time: +/- 20mins
- GPS: Accurate location information

## HD Video & Photography

Several camera options are available with live and archivable footage such as:

- Gimbaled Camera
- Resolution: 12 megapixels
- Microphone: Wind noise reduction

#### File Formats

- Photo: JPEG
- Video: H.264

## FLIR Thermal Imaging

- 80 (h) x 60 (v) active pixels
- Thermal sensitivity <50 mK
- Fast time to image (<0.5 sec)

## Base Station

The Aretas Aerial base station comes with many options depending on your department requirements. Contact your Aretas representative to review options and features (877) 218-6232.

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## Fire & Rescue UAV Monitoring Systems

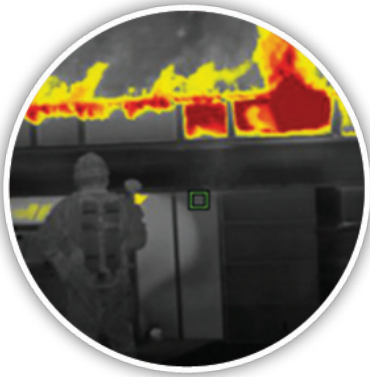
### UAV Vehicle

Model: FD1



### FLIR

Thermal Imaging



### High Definition

Video & Photography



### Base Station

Data Display



### Live Data

Immediate Decision Making



### Archived Data

Investigation Information

