

# UX11IR



## RADIOMETRIC

AUTOMATIC UAV FOR REAL-TIME MAPPING  
AND MONITORING OF FIRE FRONTS IN REAL TIME,  
EASY TO USE, ROBUST AND LIGHTWEIGHT.

Aerial data, precise to the degree

CAPTURE BY INFRARED AND VISIBLE SPECTRUM IMAGERY

10 Km

Communication range

80 Min

Autonomy

05 Min

Deployment time



## Key Differentiators

**Mapping a fire front in real time** - The UX11 returns and updates the mapping of a fire front, or area of interest, in real time.

**Thermal and visible mapping** - The UX11 returns radiometric IR sensor and visible spectrum.

**Easy to pilot** - Automated planning and mission processes, precise landing (low-speed stall technique).

**Reliable and efficient** - Redundant flight systems, geocaging functionality and robust materials ensure that safety is never an issue.

**Versatile connectivity** - Dual communication system including radio link and mobile connectivity via 3G network (4G-ready).

**Delair Flight Deck Pro** - Easy-to-use Windows PC application for mission planning and tracking (check list, no-fly zone, intuitive user interface, flight simulator).

**On-board processing** - Analysis of your images during drone flight.

**Field proven** - Deployable in 5 min.

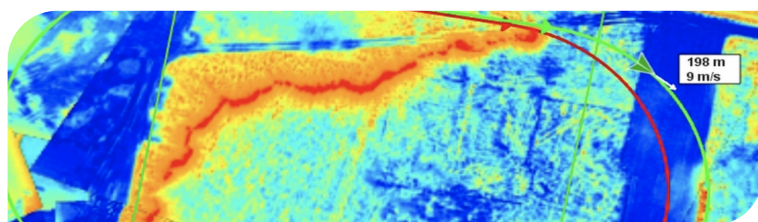
Used on forest fires since summer 2023.



## Transport Case

**Lightweight rugged backpack, easy to transport**

- Deployable in 5 min
- 14kg with all accessories, 79x43x35 cm (31x17x14 in)



## UAV Specifications

<b>Autonomy</b> <sup>1,2</sup>	Up to 80 minutes
<b>Weight (payload included)</b>	1.6 kg (3.5 lbs)
<b>Wingspan</b>	1.2 m (47 in)
<b>Deployment time</b> <sup>1</sup>	5 min
<b>Cruise speed</b> <sup>1,2</sup>	54 km/h (34 mph)
<b>Take-off / Landing</b>	Hand-launched / Belly landing (angle: 30 degrees)
<b>Flying range</b> <sup>1</sup>	53 km (33 mi)
<b>Surface area covered</b> <sup>1</sup>	Nominal (60% side overlap): 1.2 km <sup>2</sup> (300 ac) at 122 m (400 ft) AGL Maximum (60% side overlap): 6,5 km <sup>2</sup> (1600 ac) at 1,000m (3,280 ft) AGL
<b>GSD (Sensor IR)</b>	16.5cm at 12 m above ground level

### COMMUNICATION RANGE

<b>Delair Link (radio signal 2,4 GHz)</b> <sup>1,3</sup>	5 km in FCC configuration (and up to 10 km), 3 km in CE configuration (and up to 5 km)
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### OPERATING CONDITIONS

<b>Weather</b>	45 km/h (28 mph) wind resistance, light rain
<b>Maximum altitude (MSL)</b> <sup>1</sup>	Takeoff at 5,000 m (16,400 ft) Flight at 6,000 m (19,700 ft)
<b>Landing accuracy</b> <sup>1</sup>	5 m (16 ft)

<sup>1</sup> Actual results may vary depending on UAV configuration, battery age and condition, and operational, environmental and climate conditions.

<sup>2</sup> Varies depending on altitude.

<sup>3</sup> In good line of sight conditions with no signal interference.

Specifications subject to change without notice to improve reliability, function or design or otherwise.

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