



MILITARY
MRO

USTAR-X



USTAR-X

USTAR-X is a versatile quad-rotor unmanned aerial vehicle (UAV) with a low noise signature, specially designed for urban and open terrain applications.

A vertical take-off and landing (VTOL) UAV, USTAR-X offers a wide range of application possibilities in a tiny package. Highly manoeuvrable, the lightweight USTAR-X is robust and safe to operate, with a modular design that allows for a shorter turnaround time and ultimate flexibility for system upgrades.

FEATURES

USTAR-X is designed for ease of operations in terms of set-up, usage and maintenance.

1. Lightweight and small

USTAR-X is highly portable. Made of lightweight material, it can be packed into a tiny package, allowing for maximum ease of mobility.

2. Tool-less assembly

No tools are needed during assembly, offering a quick system set-up within minutes by a small team.

3. Optimisation for urban settings

USTAR-X provides real-time images for enhanced situational awareness in urban operating environments.

'Perch and stare' capability allows USTAR-X to be perched on rooftops for area surveillance. Combined with sense-and-avoid capabilities, USTAR-X allows for safe urban operations without fear of vision obstacles.

4. Innovative and customised mechanisms

USTAR-X is highly adaptable to different user needs. Instant weight class upgrades, via a simple rotor arm and payload swap, offers a wide range of application possibilities.

In addition, the innovative rotor arm mechanism features a single point attachment to the fuselage via a screw-on connector.

Its customised slide-and-lock mechanism enables simple connection of battery and payload modules.

5. Unique modular design

USTAR-X's modular design provides for easy maintenance, minimising the chance of a single fault crippling the entire system. This allows for quick troubleshooting and reduction in loss of flight time.

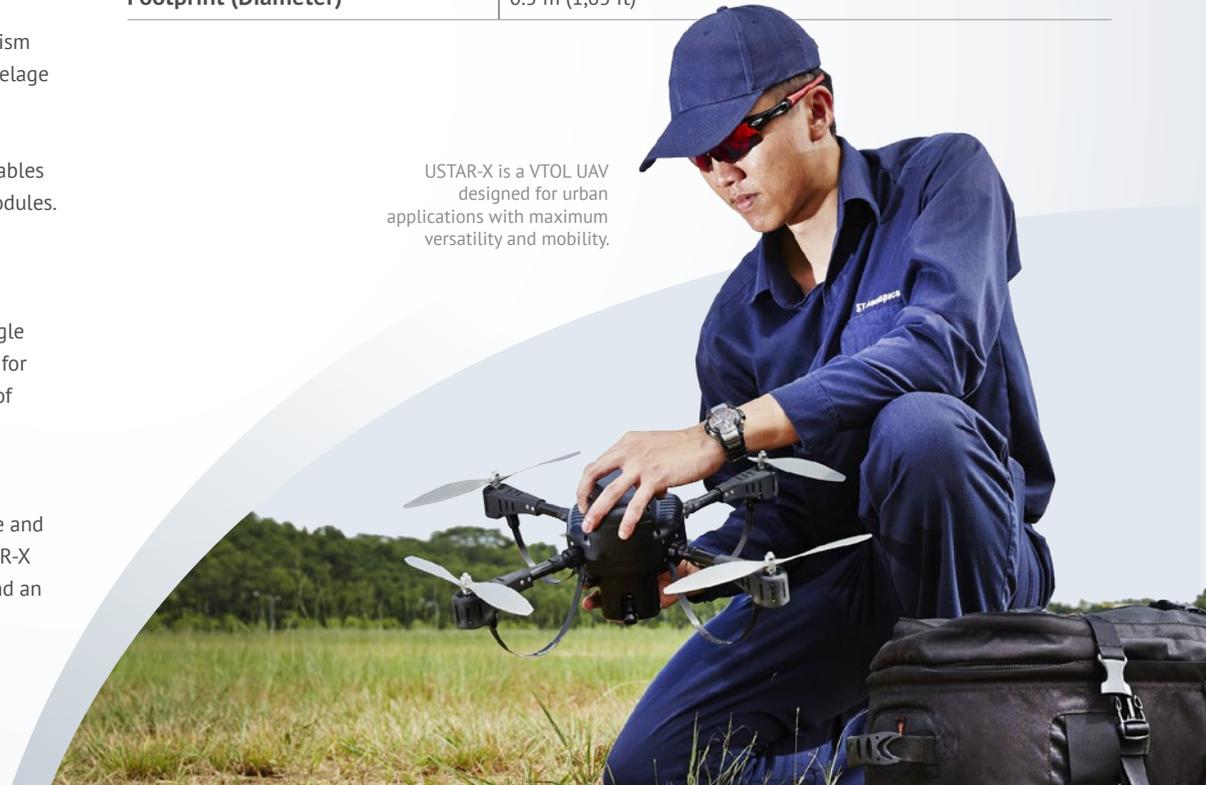
6. Intuitive control interface

Coupled with a user friendly control interface and an autonomous flight performance, the USTAR-X provides users with a short learning curve and an ease of operation.

Specifications

Take-off weight	1.5 kg
Hover endurance	25 mins
(Typical) Operating altitude	153 m (500 ft)
Maximum altitude	900 m (3,000 ft)
Maximum operational wind speed	10 kts
Range	920 m (3,000 ft)
Payload capacity	0.25 kg
Payload resolution:	640 x 480 (Real-time) / HD recording
Footprint (Diameter)	0.5 m (1,65 ft)

USTAR-X is a VTOL UAV designed for urban applications with maximum versatility and mobility.



MILITARY
MRO

USTAR-X

USTAR-X offers the possibility for continuous system upgrade at the subsystem level, in order to remain up to date with the latest technology while keeping the cost of upgrade minimal.

For instance, different payload capabilities can be designed and incorporated on a common interface based on the users' requirements. New payloads can then be directly installed on existing airframes.



APPLICATIONS

- Aerial photography and video recording
- Disaster site monitoring
- Geographical survey
- Industrial site / rig inspections
- Crowd monitoring
- Events / sports reporting
- Search and rescue
- Power line inspection
- Tactical surveillance

