

COMPANY PROFILE

Make all UAVs easy to use all over the world

ABOUT US

TopxGun team was firstly established in 2009 and formally registered in 2015. With more than 10 years of experience in flight control development and manufacture, TopxGun has expanding our technologies to produce UAV and peripherals including sensors, pods, apps, software and cloud service system. TopxGun products are widely used for agricultural purposes, power line inspection, delivery, etc.



▲ agricultural purposes



▲ power line inspection



▲ fire monitoring

CORE TEAM

R&D takes up more than 60% of the 200 employees in our company. TopxGun boasts a team of talents graduated from world-known aeronautics and astronautic universities such as NUAU and Beihang University, who have rich knowledge and experience in designing UAV, military aircrafts, and large aircrafts.

Since it was founded, TopxGun has been making technological breakthrough, with 300+ intellectual properties and 200+ patents being filed. TopxGun owns qualifications including High Technology Enterprise Certificate, ISO9001, ISO20000, ISO27001, etc. Our UAVs has passed international tests such as CE, FCC, FOHS and KC.



▲ Large fixed-wing UAV

MARKET

Currently focusing on drones for plant protection, TopxGun has been optimizing products according to agricultural professionals' feedback. Now 20000+ sets of TopxGun flight control for plant protection have been sold to 400+ domestic and 100+ overseas clients, which include Japan, Korea, Thailand, Australia and other countries in East Asia and North America.



▲ Vertical take-off and landing fixed-wing UAV

TopGun
TopXGun Robotics



F10/16

PLANT PROTECTION
SOLUTION

Reliable · Efficient
Durable · Easy-to-use

TopXGun Robotics

The professional provider of UAV flight controller system, UAV and application solution

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01 Precise Positioning: Safe Flight

- ◆ It uses RTK Technology for positioning, supporting Beidou / GPS / GLONASS at the same time, and is equipped with dual anti-interference antenna to ensure centimeter-level accuracy.
- ◆ The front and rear obstacle avoidance radars offers $\pm 10\text{cm}$ accuracy, effectively avoiding obstacles such as utility poles and trees.



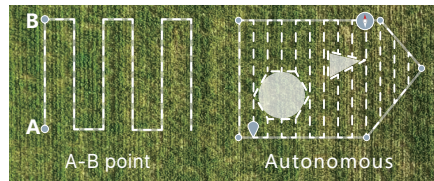
02 Precise and Even spraying with High Efficiency and Good Penetration

- ◆ 40-60 times higher efficiency and 30% less chemicals than manual spraying.
- ◆ 10L and 16L models are available. Choose payload capacity according to your needs.
- ◆ Double pumps are equipped. The max flow rate of F10 is 3.6 L/min, and that of F16 is 4.5 L/min.
- ◆ 4 or 8 high-pressure fan-shaped nozzles, providing fine atomization with a mean droplet diameter of 130-250 μm .
- ◆ Precise metering system to avoid insufficient spraying/overdose.
- ◆ Quadcopters have larger propellers creating stable downward wind, leading to better penetration of chemicals compared with hexacopters and Octocopters .
- ◆ F10 spays 43 ha(105 acre) per day (8 hours).
F16 spays 67 ha(165 acre) per day (8 hours).



03 Easy to Operate, Quick to Start

- ◆ Multiple operation modes: A-B point, manual and autonomous. Simple setup to quickly start operation.
- ◆ Comprehensive training is offered to help users independently operate in 3 days and become skillful in 7 days.



04 Durable, Foldable and Easy to Transport

- ◆ Foldable design for easy storage and transportation.
- ◆ Tough and durable. Metal frame and carbon fiber boom. Durable folding mechanism. IP67 waterproof body. Shell can be washed with running water after operation.

05 Timely After-sales service to protect your interests

- ◆ Online support from the company's technical team.
- ◆ Modular design: users can replace certain damaged modules by themselves instead of returning the drone to manufacturer.

06 More Advanced Technology Makes the Drone Smarter

- ◆ Terrain following radar is equipped to adjust the altitude of the drone to ensure flight safety and even spraying.
- ◆ FPV (First-person view) enables user to see the environment in front of the drone in real time on the mobile phone.
- ◆ The mobile app "Plant Protection Assistant" provides access to operation data. Useful functions include route planning, voice broadcast, field management, operation area statistics, etc.

General Parameter

F10/16 Plant Protection UAV

F10



F16



Basic Parameters

Wheelbase	1495mm (Quad)	1789mm(Quad)
Outline dimension :Unfoldable	1152*1152*630mm	1357*1357*610mm
	Foldable	666.4*666.4*630mm
Width of spray (Depending on different crops)	3.0~5.5m	4.0~6.5m
Medicine box capacity	10 L	16 L
Operational efficiency	80Mu/h	130Mu/h (8 nozzle)
Weight	12.25kg	15.3 kg
Max. takeoff weigh	27.4kg	38 kg
Power battery	12S 14000mAh	12S 22000mAh
Nozzle type	High pressure fan nozzle	High pressure fan nozzle
Nozzle number	4nozzle	4 / 8nozzle(match)
Max. system operating flow	3.6L/min	4.5L/min

Flight Parameters

Hovering time	>20min(No load)
	>10min (Full load)
Operation height	1.5m~3.5m
Max. flight speed	10m/s(GPS mode)
Hovering accuracy (GNSS signal good)	Horizontal $\pm 10\text{cm}$ Vertical $\pm 10\text{cm}$ (RTK)
	Vertical $\pm 0.1\text{m}$ (Radar)
Accurate altitude hold of radar	0.02m
Altitude hold range	1~10m
Obstacle avoidance detect range	2~12m