



Trimble ZX5

MULTIROTOR UNMANNED AIRCRAFT SYSTEM

EVERYTHING YOU NEED TO CAPTURE RELIABLE AERIAL DATA

Tested and proven, the Trimble® ZX5 Multirotor is built to execute tough, everyday jobs quickly, even in tight spaces. It requires no launcher, is easy to assemble and includes everything you need to capture high quality georeferenced photos for applications such as aerial mapping and inspections.

Images and video used for inspection applications such as civil infrastructure, utilities and oil and gas pipelines are clear and stable using the image stabilized camera and remote camera operation features through the remote controller. You'll also find it offers simple field-to-office workflows, and integrates easily with other Trimble technology.

It Goes to Work Fast so You Get in and Out Quickly

The Trimble ZX5 sets up in minutes and comes equipped with Trimble Access™ Aerial Imaging to easily plan, create, upload aerial mapping flight plans, perform flight check lists and download completed flight missions. Its vertical takeoff and landing capability allows users to work in tight places and obstructed environments where fixed wing solutions are less suitable. And you can count on it to stay on the job, flight after flight, thanks to its proven and reliable design, rugged, durable chassis made from light, fracture-resistant carbon and the highest quality components available.

Precise Data and Fast Processing

The Trimble ZX5 Multirotor includes a 24 MP Sony A6000 camera equipped with a 16-50 mm image stabilizing lens and a 16 mm fixed lens, allowing users to capture high quality aerial imagery and achieve image resolution down to 1 cm for superior image quality.

Import your data into Trimble Business Center Photogrammetry Module office software to create detailed orthophotos, digital elevation models, point clouds, volume calculation, 3D models and more without requiring specialized photogrammetry knowledge or experience. Or utilize the state-of-the-art Trimble Inpho® UASMaster module for advanced photogrammetric processing.

The Trimble ZX5 is another accurate, reliable tool in Trimble's family of UAS solutions. Fast to set up and easy to operate, the Trimble ZX5 allows you to quickly collect data in the field so you can generate the dynamic deliverables required for today's jobs.

Key Features

- ▶ Outstanding flight stability and performance even in strong winds
- ▶ Includes a 24 MP camera system and flight planning software
- ▶ Image resolution down to 1 cm
- ▶ Light, compact, foldable carbon design
- ▶ Up to 20 minute mission duration and 2 km range
- ▶ Easy data processing in Trimble Business Center Photogrammetry Module or Trimble UASMaster



Trimble ZX5 MULTIROTOR UNMANNED AIRCRAFT SYSTEM

HARDWARE

Type	Rotary wing
Number of rotors	6
Maximum takeoff mass	5 kg (11 lb)
Payload capability	2.3 kg (5 lb)
Dimensions	85 cm x 49 cm (33 in x 19 in)
Material	Carbon frame structure
Propulsion	Electric pusher propeller; 6 brushless motors
Battery	2 x 6600 mAh 14.8 V
Camera24 MP with 16–50 mm and 16 mm fixed lenses
Controller	PC or tablet running Microsoft® Windows® XP operating system or later (Windows 7 or later recommended)
Display	Capable of at least XGA (1024x768) and at least one USB port

SOFTWARE

- Mission planning with option for multiple flights
- Automated pre-flight checks
- Automatic takeoff, flight and landing
- Autonomous camera triggering
- Automated fail-safe routines
- User controlled fail-safe commands
- Automated data consistency checks
- Export to Trimble Business Center and a generic format for image processing

Specifications subject to change without notice.

OPERATION

Endurance	20 minutes
Flight time without payload	25 minutes
Maximum ceiling	3,000 m (9,843 ft) AMSL
Pre-flight system setup time	5 minutes
Launch and recovery	Vertical takeoff and landing
Weather limit	Stable in winds up to 36 km/h (22 mph)
Control frequency	2.4 GHz
Video frequency	5.8 GHz
Communication and control range	Up to 2 km (1.2 miles)
Live video stream resolution	1280 x 800 HD
Recordable video resolution	1080p30

ACQUISITION PERFORMANCE

Image resolution	1.0 cm to 19.5 cm, depending on height above ground level (AGL) and lens
Flight AGL range	5 m to 750 m

Contact your local Trimble Authorized Distribution Partner for more information

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