

# Trimble ZX5 Multirotor Unmanned Aircraft System

## Key Features

**Outstanding flight stability** and performance even in strong winds

Includes a **16 MP camera** system and flight planning software

**Resolution down to 1mm** ground sample distance

**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

## 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.

Optionally, the system can be equipped to capture live video imagery for inspection applications such as civil infrastructure, utilities, and oil and gas pipelines. 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 an industry leading flight control system for unprecedented performance and precision. 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 16 MP Olympus camera, allowing users to capture high quality aerial imagery and achieve ground sample distances (GSD) down to 1 mm 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.



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## HARDWARE

Type . . . . . Rotary wing  
 Number of rotors . . . . . 6  
 Maximum takeoff mass . . . . . 5 kg  
 Payload capability . . . . . 2.3 kg  
 Dimensions . . . . . 85 cm x 49 cm  
 Material . . . . . Carbon frame structure  
 Propulsion . . . . . Electric pusher propeller; 6 brushless motors  
 Battery . . . . . 2 x 6600 mAh 14.8 V  
 Camera . . . . . 16 MP with interchangeable 14 mm lens  
 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

## OPERATION

Endurance . . . . . 20 minutes  
 Flight time without payload . . . . . 25 minutes  
 Maximum ceiling . . . . . 3,000 m 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  
 Control frequency . . . . . 2.4 GHz  
 Video frequency . . . . . 5.8 GHz  
 Communication and control range . . . . . Up to 2 km  
 Live video stream resolution . . . . . 480i  
 Recordable video resolution . . . . . 1080p30

## ACQUISITION PERFORMANCE

Resolution (GSD) . . . . . 1.0 mm to 19.5 cm, depending on height above ground level (AGL) and lens  
 Flight AGL range . . . . . 5 m to 750 m

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