**E300 RTK DRONE**

**GENERAL SPECIFICATIONS**
- Drone type: Quadcopter with 4 propellers
- Work mode: RTK / PPK
- Take-off & landing: Automatically
- Max flight time: 60 min, without payload; 50 min, with 1kg payload
- Measurement radius: 10 km
- Assembly time: Start < 1 min / Finish < 1 min

**FLIGHT SPECIFICATIONS**
- Max level flight speed: 20 m/s
- Max climb speed: 6 m/s
- Max cruising speed: 15 m/s
- Max flight altitude: 1000 m
- Wind resistance: 17.1 m/sec (level 7)

**GNSS SPECIFICATIONS**
- GPS: L1 C/A, L2C, L1P, L5
- BeiDou: B1, B1I, B3
- BeiDou Global: B1C, B2a
- GLONASS: L1 C/A, L1P, L2 C/A, L2P
- Galileo: E1/E5-a/E5-b/AltBOC/E6
- QZSS: L1C, L2 C/A, L5
- RTK Accuracy: 8 mm + 1 ppm Horizontal; 15 mm + 1 ppm Vertical
- PPK Accuracy: 8 mm + 1 ppm Horizontal; 15 mm + 1 ppm Vertical

**PHYSICAL SPECIFICATIONS**
- Size: 520 × 520 × 240 mm, unfolded; 520 × 160 × 240 mm, folded
- Weight: 7 kg
- Max take-off weight: 7 kg
- Max take-off altitude: 500 m
- Working temperature: -30°C ~ 50°C
- Weight without payload: 1.8 kg
- Payload: Up to 3 kg
- Max take-off weight: 3 kg
- Size of box: 580 × 360 × 200 mm

**CAMERA OPTIONS**

<table>
<thead>
<tr>
<th>C20 BASIC CAMERA</th>
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</thead>
<tbody>
<tr>
<td>Pixel count: 24.3 MP</td>
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<tr>
<td>Weight: 300 g</td>
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<tr>
<td>CMOS Size: 23.5mm × 15.6 mm</td>
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<tr>
<td>Minimal trigger time: 0.7 s</td>
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<tr>
<td>Foal length of each: 35mm</td>
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<tr>
<td>Power supply: Dual redundant power supply</td>
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<tr>
<td>Altitude accuracy: ± 0.32°</td>
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<tr>
<td>Communication: CAN</td>
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</tbody>
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<table>
<thead>
<tr>
<th>C50 OPTIONAL CAMERA</th>
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<tbody>
<tr>
<td>Size: 145mm × 145 mm × 135 mm</td>
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<tr>
<td>Weight: 800 g</td>
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<tr>
<td>Pixel count: 24.3 MP</td>
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<tr>
<td>CMOS Size: 23.5mm × 15.6 mm</td>
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<tr>
<td>Minimal trigger time: 0.65 s</td>
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<tr>
<td>Trigger configuration: Remote configuration from ground station</td>
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<tr>
<td>CMOS Size: 35.9mm × 24 mm</td>
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<tr>
<td>Storage: Expandable to 164 GB</td>
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<tr>
<td>Communication: CAN</td>
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</table>

**SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.**
**PRODUCT COMPONENTS**

- 01 | Landing Gears
- 02 | GNSS Helix Antenna
- 03 | Detachable Drone Blades
- 04 | Rugged Body
- 05 | Dustproof Motor
- 06 | Folding Structure
- 07 | Camera Gimbal
- 08 | Battery
- 09 | Transport Case

**FEATURES**

**PROFESSIONAL PAYLOAD**

- Detachable design and multiple payload options for your various purposes.

**INTELLIGENT ROUTE PLANNING**

- Support automatic route generation, manual route editing or KML file import.

**SAFETY & EFFICIENCY**

- Redundancy design on the key modules ensures the safety, 60min long working time for higher efficiency.

**FREE OF GCPS**

- Embedded with high precision GNSS module, providing centimeter accuracy without GCPS.

**TERRAIN AWARENESS**

- Based on intelligent recognition algorithms, ensuring the consistency of image resolution.

**SMART BATTERY DESIGN**

- Automatic control of dynamic battery charging and discharging, voltage load balancing and prolonging battery life.

**FLIGHT CONTROL SOFTWARE**

- Partnered flight control software equipped with clear interface, easy workflow, powerful flight control capability, which can completely satisfy the requirements of high-efficiency, high-quality and high-precision aerial survey operations.

- Clear interface and operation guidance of flight route planning, making it convenient and fast to plan a flight task.
- Perform supervised flight missions after connecting the drone, human operation during the whole flight only includes execute, pause and end the task.
- Support manual control of the flight attitude via computer keyboard. Click the "Pause" button to enter the manual control mode in special circumstances.
- Wait for the next instruction at a safe altitude when returning from the flight mission and landing, the flight can only be continued under safe conditions.