

Drone for Mapping

Geomasi Rental

DJI Phantom 4 pro



- Drone Weight 300 gr and 350 mm Diagonal Size -
- Up to 30 minutes Flight time -
- Dual GPS/GLONASS positioning systems -
- 3D obstacle sensing system (0,7 – 30 m) -
- 20 MP camera with 1" CMOS -
- C4K Video (4096x2160 30p) -
- 3-axis mechanical Gimbal -
- Include Drone, Remote controller, 6 Battery drone, Charger, Backpack -

- Site Survey
- Photogrammetry Mapping
- 3D Modelling
- Thematic Mapping

Sky Walker X8



- Wingspan 2120mm with up to 2000 gr payload
- GPS/GLONASS positioning systems
- Up to 80 minutes Flight Time
- With Sony Alpha 6000 camera (24 MP)
- Up to 5 cm/pixel
- Up to 500 Ha/flight

- Photogrammetry Mapping
- High Productivity Mapping
- Long Range Photogrammetry Mapping
- Larger Coverage Area



Fajri 085795494948
Aris 089607718270

Drone Survey and Documentation

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DJI Spark (Combo)

- Drone Dimension and Weight 143x143x55 mm and 300 gr
- 15 minutes Flight time
- GPS/GLONASS positioning systems
- 3D obstacle sensing system (0,2 – 5 m)
- 12 MP camera with 1/2,3" CMOS
- FullHD Video (1920x1080 30p)
- 2-axis mechanical Gimbal
- Include Drone, Remote controller, 2 Battery drone, Charger, other accessories



➤ Photo and Videography

➤ Site Survey

DJI Phantom 3 Advance

- Drone Weight 1216 gr with 350 mm Diagonal Size
- 25 minutes max. Flight time
- GPS positioning systems
- 12 MP camera with 1/2,3" CMOS
- 2,7K Video (2704x1520 30p)
- 3-axis mechanical Gimbal
- Include Drone, Remote controller, 3 Battery drone, Charger, Backpack



➤ Site Survey

➤ Photo and Videography

➤ Photogrammetry Mapping



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Aris 089607718270

GNSS Receiver

Geomasi Rental

Trimble 5800



- Integrated and Dual Frequency GPS Receiver -
- 24 Channels L1 C/A Code, L1/L2 Full Cycle Carrier -
- 2 additional channels for SBAS WAAS/EGNOS support -
- Static Differential Positioning Accuracy; ± 5 mm +0,5 ppm RMS (horizontal) -
 ± 5 mm +1 ppm RMS (vertical)
- Kinematic Positioning Accuracy; ± 10 mm +1 ppm RMS (horizontal) -
 ± 20 mm +1 ppm RMS (vertical)
- Dimension 19cm x 10cm, including connectors -
- Weight 1,31 kg with internal Battery, internal Radio -
- Water/dustproof IP67, to depth of 1 m and Shockproof to survive 2 m pole drop -
- Operating times on internal battery: 5.5 hours with 450 MHz receive only -

Trimble 5700



- Dual Frequency GNSS Receiver -
- 24 Channels L1 C/A Code, L1/L2 Full Cycle Carrier -
- 2 additional channels for SBAS WAAS/EGNOS support -
- Static Differential Positioning Accuracy; ± 5 mm +0,5 ppm RMS (horizontal) -
 ± 5 mm +1 ppm RMS (vertical)
- Kinematic Positioning Accuracy; ± 10 mm +1 ppm RMS (horizontal) -
 ± 20 mm +1 ppm RMS (vertical)
- Dimension 13,5cm x 8,5cm x 24cm, receiver only -
- Weight 1,5 kg with internal battery, charger, standar UHF antenna -
- Water/dustproof IP67, to depth of 1 m and Shockproof to survive 1 m drop onto
concrete (non-operating) -
- Operating times on internal battery: >10 hours (post processing), 6-8 hours for RTK -

- High Accuracy Positioning Survey
- Control Point Survey
- Real Time Kinematic Survey
- Bathymetry Survey
- GCP and BM Measurement
- Stake Out Survey



Fajri 085795494948
Aris 089607718270

www.geomasi.com / marketing@geomasi.com

GNSS Receiver

Comnav T300



Integrated and Dual Frequency GNSS Receiver -
256 Channels -

GPS, GLONASS, BEIDOU, GALILEO, SBAS-

Static Differential Positioning Accuracy; $\pm 2,5$ mm + 0,5 ppm RMS (horizontal) -
 ± 5 mm + 0,5 ppm RMS (vertical)

Kinematic Positioning Accuracy; ± 8 mm + 1 ppm RMS (horizontal) -
 ± 15 mm + 1 ppm RMS (vertical)

Dimension 15,8cm x 7,5cm, 0,95 kg include 2 batteries -

RTK with Internal Radio, compatible to RTK NTRIP-

Water/dustproof IP67, to depth of 1 m and Shockproof to survive 2 m pole drop -

Operating times on internal battery: up to 9 hours -

Initialization time <10 s, signal re-acquisition <1.5 s, Initialization reliability >99.99% -

Geomasi Rental

- High Accuracy Positioning Survey
- Control Point Survey
- Real Time Kinematic Survey
- RTK - NTRIP
- Bathymetry Survey
- GCP and BM Measurement
- Stake Out Survey
- Fast Acquisition Data GNSS
- Compatible to be Base or Rover with Trimble Receiver



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1 Set Real Time Kinematic Survey

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Trimble 5700 for Base



**Trimble Zephyr Geodetic
Mark 2 GNSS Antenna for Base**



2 unit rover (Trimble 5800)

- External Antenna UHF Radio
- Cable for Base Receiver – Antenna – Transmitter
- Cable for Data Download
- 4 Extra Battery for Rover
- Statif and 2 pole, 1 Tribrach, TSC holder
- Box for all equipment

**Topcon Positioning Data Link (PDL)
For Transmitter Radio**



2 unit rover/base (Comnav T300)

- Topographic Mapping
- Bathymetry Survey
- Control Point Survey
- Stake Out Survey
- More geodetic surveying



2 unit Trimble Survey Controller (TSC)



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Single Frequency and Navigation GNSS

Garmin 60SCX Handheld



12 channel SiRFstar III™ high-sensitivity GPS receiver (WAAS-enabled)

Acquisition times <45 sec

GPS Accuracy <10m (position), 0.5 m /sec Velocity, $\pm 2^\circ$ Compass

Detailed routable basemap with cities, highways, etc

Up to 1000 waypoint and 50 reversible routes

Power with 2 AA battery

Waterproof IPX-7

- Site Survey
- Tracking
- Stake Out
- Marking Point Location

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Emlid Reach M+



Dimension 5,6 x 4,5 x 1,4 cm and 20g Weight

Connectivity range up to 8km

Built in wifi, Bluetooth, usb port, UART port

Data Correction NTRIP, RTCM3, Position Output NMEA, LLH/XYZ

Data Logging RINEX with events, Internal storage 8GB

Positioning Accuracy Static 5mm+1ppm (HR), 10mm+2ppm (VR),
Kinematic 7mm+1ppm (HR), 14mm+2ppm (VR)

GNSS Receiver (GPS/QZSS, GLONASS, BeiDou, Galileo, SBAS)

Number of channels 72. IMU 9DOF

- Positioning Survey
- UAV Positioning (module)
- Post Processing Positioning for Photogrammetry
- Positioning for Bathymetry

Garmin GPSmap 585



with Basemap, SD card slot, up to 6000 waypoint and 150 routes

Max depth 450m (dependent on water condition)

Cone angle 20 degree

Accuracy position up to <6m

equipped with Transducer 50/200 kHz

sun and moon information, 3D map view, water temperature and graph

- Simple Bathymetry Survey
- Positioning Survey
- Navigation Tools
- Depth Measurement



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Laptop for Acquisition and Data Processing

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HP Pavilion 14-N219TX Black i7-4500U up 3 GHz RAM16GB/HDD 500GB/Intel HD Graphics 4400+Geforce GT740M 2GB DDR3/14" HD

- GNNS Survey Acquisition Data and Processing
- Topographic Survey Data Processing
- Bathymetry Survey Acquisition and Data Processing
- GIS Processing and Analysis
- Photogrammetry Data Processing
- Reporting, and other data processing



Thosiba Satellite Pro C6-40
core i3 up 2.5GHz RAM4GB

- GNNS Survey Acquisition Data and Processing
- Topographic Survey Data Processing
- Reporting, and other data processing



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Laptop for Acquisition and Data Processing

MSI GF63-9SC intel core i7 gen 9750h / Ram
16 GB / VGA NVidia G Force GTX 1650 /
512 GB SSD / 15.6-inch Full HD IPS /
WiFi, Bluetooth, Webcam

- More Powerfull Data Processing
- GNSS Data Processing
- GIS Processing and Analysis
- Photogrammetry Data Processing
- Larger Data Processing
- Reporting, and other data processing



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Additional Survey Equipment

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Inflatable Boat Intex Seahawk 4



SKU: 68351EP

Weight: 21,7 kg

Package Dimension: 42,3x35.4x62.1cm

Persons Capacity: 4

- River Survey
- Tracking
- Simple Bathimetry
- Rescue, and more activity on water

➤ Power supply on Base GNSS Receiver

➤ Power supply for Bathimetry Survey

➤ Other power supply for other survey equipment

Battery / Accu and Battery Charger

Charger: V input 220v / 50Hz

V output 12/24v

I output 20A

Dry Battery (Aki mobil kering)

GS 35Ampere



Safety Equipment

Safety Helmet



Safety Shoes



Wearpack/Coverall



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