

A NEW WAY TO AERIAL-MAP THE WORLD

FJD Trion O1 is a large-format aerial solution that captures photogrammetric images of superior quality, resolution, and clarity. It has four oblique RGB cameras and one nadir camera, 150 MP each, making itself one of the most efficient all-in-one solutions for wide-area mapping and 3D city modeling.



150MP Resolution per Camera



1.8X Focal Length Ratio (Oblique-Nadir)



2 FPS Capture Rate



Up to 1/2500s Shutter Speed



650km/h @5cm GSD & 80% Forward Overlap



5*2TB SSD Mass Memory

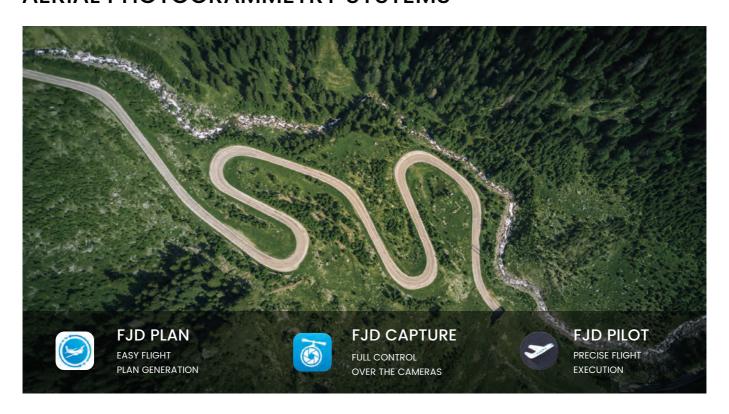


Multi-platform Compatibility



Smart Cooling System

ONE OF THE WORLD'S MOST ADVANCED AERIAL PHOTOGRAMMETRY SYSTEMS



RECORD IMAGES OF 1.5 BILLION PIXELS IN 1 SECOND

ULTRA-HIGH RESOLUTION IMAGE

90 mm oblique lens; 150 MP image every 0.5 seconds; 1.5 billion geo-spatial pixels in 1 second

ULTRA-HIGH PRECISION COLLECTION

High-precision inertial navigation system; 5 thousandths angle measurement accuracy; Every exposure point a control point.

MULTI-PLATFORM COMPATIBILITY

Applicable in fixed-wing aircrafts and helicopters; One-man operation with the help of the specifically designed pod lifter.

ADAPT TO FASTER FLIGHT SPEED

Adapts to flight speed as fast as 650 km/h @ 5 cm GSD and 80% overlap along the track; Reduces flight cost.

SMART AND STABLE OPERATION

Smart cooling system; Stable operation across a wide temperature range.

OUTSTANDING PROCESSING

5 industrial cameras; Internal and external parameters precisely calibrated and processed; Instant complete image production.



QUICK SPECS

SENSOR SYSTEM

Nadir RGB Camera 1*150MP industrial camera Oblique RGB Camera 4*150MP industrial camera IMU Applanix IMU-46 0.5 sec (2 fps) Maximum frame rate Nadir-Oblique focus rate 1:1.8 Sample flying height 665 m AGL@5 cm GSD

CONTROLLER

Processor 64-bit WIN 10, 32 GB RAM, 120 GB SSD, USB 3.0, SATA 3.0 **GNSS** Integrated with Controller, Trimble BD992, 50 Hz update rate Storage 5*2TB SSD Storage capability 3h data record

CAMERA SYSTEM

Nadir RGB lenses 50 mm focal length, 56.21° FOV across track,

43.65° FOV along track

90 mm focal length, 33.05° FOV across track, Oblique RGB lenses

25.09° FOV along track

14204 x 10652 pixels Image size

Pixel size 3.76 µm, back-illuminated CMOS

Dynamic range 83 dB ADC 14-bit

Data channel 14-bit dedicated compression

Spectral range R (580-660 nm) G (480-590 nm)

B (420-510 nm)

Shutter Mechanical central shutter

Max speed: Nadir 1/2500 sec, Oblique 1/2000 sec

Exchangeable, Up to 500,000 cycle

Automatically controlled **Aperture** Lens mount Mechanical bayonet connection

ELECTRICAL

440 W/28 VDC Average power 570 W/28 VDC Peak power Power fuse 40 A recommended

WEIGHT

Weight (without lifter) 48 kg Weight (with lifter) 66 kg Height/Diameter 663 mm/400 mm

Operator Monitor





Pod

Pilot Monitor



Lifter & Mount

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