



# MATRICE 600 PRO

SIMPLY PROFESSIONAL PERFORMANCE



## MATRICE 600 PRO

The Matrice 600 Pro (M600 Pro) inherits everything from the M600 with improved flight performance and better loading capacity. Pre-installed arms and antennas reduce time required for setup, and the system's modular design makes it easy to mount additional modules.

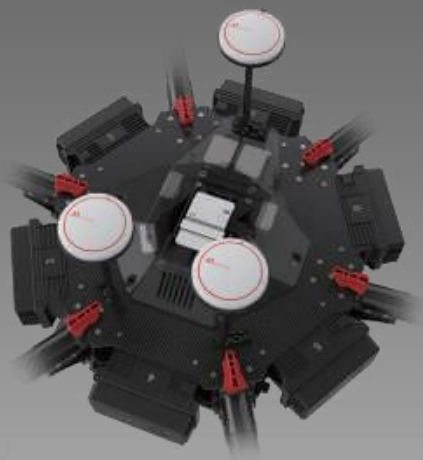
The airframe is equipped with the latest DJI technologies, including the A3 Pro flight controller, Lightbridge 2 HD transmission system, Intelligent Batteries and Battery Management system. All Zenmuse cameras and gimbals are natively compatible and full integration with third party software and hardware make the M600 Pro ideal for professional aerial photography and industrial applications.

## AERIAL IMAGING SOLUTION

Dustproof propulsion systems simplify maintenance and active cooling motors ensure that operation is reliable for extended periods of time. The M600 Pro is natively compatible with current Zenmuse cameras and gimbals. With a maximum payload of 6kg, it effortlessly supports the Ronin-MX gimbal, DJI Focus and a range of cameras from Micro Four Thirds systems to the RED EPIC. Ronin MX + RED EPIC

## A3 PRO FLIGHT CONTROLLER. SUPERLATIVE PERFORMANCE.

The A3 Pro Flight Controller has triple modular redundancy and diagnostic algorithms that compare sensor data from three sets of GNSS units, with additional analytical redundancies for a total of six. A new dampening system for the A3's modules enable precise control of multi-rotor aircraft, providing accurate data for stable flight performance. Self-adaptive systems will automatically adjust flight parameters based on different payloads. Compatibility with D-RTK GNSS means that the A3 Pro can withstand magnetic interference, providing centimeter-level accuracy, suitable for various industrial applications.



Ronin MX + RED EPIC



Ronin MX+HASSELBLAD A5D



Zenmuse Z15-A7



Zenmuse Z15-GH4



Zenmuse X5R



Zenmuse XT



Zenmuse Z30

## COMPLETE INTEGRATION, ULTRA CONVENIENT



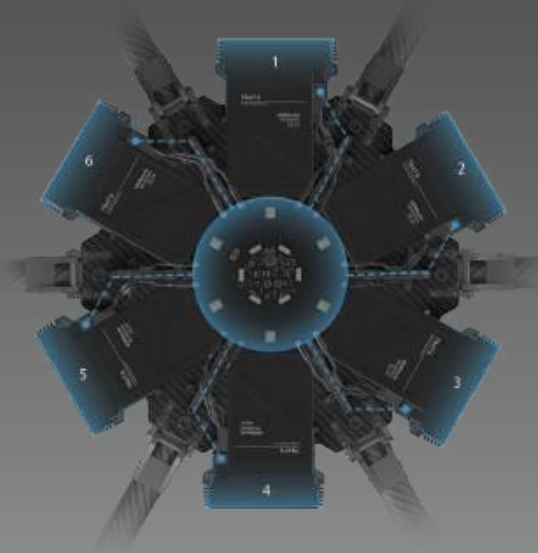
The M600 Pro is simple and easy to set up, ready to fly in a matter of minutes. Its airframe has been optimized for easier transportation with a quick-release landing gear design and folding frame arms. Under the new upper cover, the positions of GNSS modules and sensors have been revamped and a new dampening system for the IMU units increases reliability during flight. The M600 Pro also comes with a durable, customizable case that absorbs impact from shakes or falls, providing all-round protection when carried or transported.

## CHARGE SIX BATTERIES SIMULTANEOUSLY



The M600 Pro charger has six charging hubs, enabling it to charge six Intelligent Batteries simultaneously. All six batteries can be fully charged in a short amount of time\*, for quick and efficient preparation.

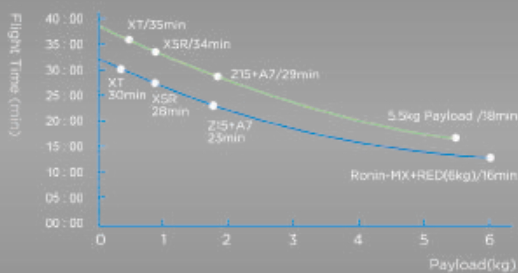
\*92 minutes for TB47S and 110 minutes for TB48S.



## EXTENDED FLIGHT TIME AND TRANSMISSION RANGE

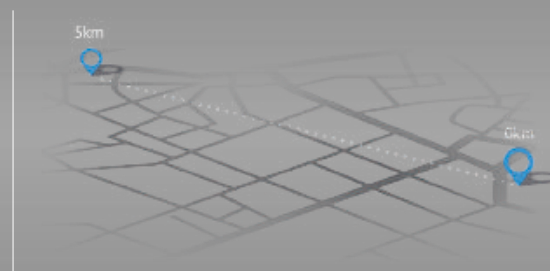
The M600 Pro has an extended flight time and a 5km\* long-range transmission. A comprehensive battery management system means that if any of its six Intelligent Batteries are turned on or off, the rest will follow suit. The battery management system monitors every battery during flight, ensuring safe landing in the event of single battery failure. Compared to traditional non-intelligent batteries, the M600 Pro's battery management system simplifies maintenance while enhancing security.

### EXTENDED FLIGHT TIME



— Based on TB47S battery configurations — Based on TB48S battery configurations

### TRANSMISSION RANGE



\*Maximum range tested in unobstructed areas free of interference and may vary depending on local regulations.

## POWERFUL APP CONTROL

The M600 Pro supports the DJI GO app and DJI Assistant 2. Get a live HD view, battery status, redundancy status, transmission strength and much more, straight from the DJI GO app. DJI GO is also the control center for the camera, giving access to shutter speed, ISO, photo or video capture, on any Zenmuse series camera and remote focus and aperture control on the Zenmuse X5 and X5R cameras. DJI Assistant 2 supports firmware updates and Ground Station, and comes with a built-in flight simulator.

## PROFESSIONAL HD TRANSMISSION

DJI Lightbridge 2 has been designed to meet all the requirements of professional broadcasting, offering high frame rates and HD live streaming. USB, mini-HDMI, 3G-SDI ports and Lightbridge 2 Ground Unit all support video output at up to 1080p/60fps. Dynamic, self-adaptive wireless data links enable long-range transmission with ultra-low latency, supporting a broadcast standard output of 720p/59.94fps and 1080i/50fps, enabling even more creative opportunities for aerial imaging.

## OPEN SDK DEVELOPMENT

The M600 Pro is fully compatible with the DJI Onboard SDK and Mobile SDK to meet the requirements of those building software for various industrial applications. It has four — dual parallel — CAN ports and one API port for connecting DJI devices, including the D-RTK GNSS units or third party components of your choice.

## D-RTK GNSS

Using dual antennas, the D-RTK GNSS system is a significant breakthrough for high-precision industrial applications. It is able to withstand strong magnetic interference and provides centimeter-level accuracy in environments with metal structures.

## SPECIFICATIONS: AIRCRAFT

	<b>MATRICE 600 PRO</b>
Dimensions	1668 mm × 1518 mm × 727 mm with propellers, frame arms and GPS mount unfolded (including landing gear) 437 mm × 402 mm × 553 mm with propellers, frame arms and GPS mount folded (excluding landing gear)
Diagonal Wheelbase	1133 mm
Package Dimensions	525 mm × 480 mm × 640 mm
Weight (with six TB47S batteries)	9.5 kg
Weight (with six TB48S batteries)	10 kg
Max Takeoff Weight Recommended	15.5 kg
Hovering Accuracy (P-GPS)	Vertical: ±0.5 m, Horizontal: ±1.5 m
Max Angular Velocity	Pitch: 300°/s, Yaw: 150°/s
Max Pitch Angle	25°
Max Wind Resistance	8 m/s
Max Ascent Speed	5 m/s
Max Descent Speed	3 m/s
Max Service Ceiling Above Sea Level	<ul style="list-style-type: none"> <li>• 2170R propellers: 2500 m;</li> <li>• 2195 propellers: 4500 m</li> </ul>
Max Speed	40 mph / 65 kph (no wind)
Hovering Time* (with six TB47S batteries)	No payload: 32 min, 6 kg payload: 16 min
Hovering Time* (with six TB48S batteries)	No payload: 38 min, 5.5 kg payload: 18 min
Supported DJI Gimbals	Ronin-MX; Zenmuse Z30, Zenmuse X5/X5R, Zenmuse X3, Zenmuse XT; Zenmuse Z15 Series HD Gimbal: Z15-A7, Z15-BMPCC, Z15-5D III, Z15-GH4
Flight Control System	A3 Pro
Propulsion System	<ul style="list-style-type: none"> <li>• Motor model: DJI 6010</li> <li>• Propeller model: DJI 2170R</li> </ul>
Retractable Landing Gear	Standard
Operating Temperature	14° F to 104° F (-10° C to 40° C)

## SPECIFICATIONS: CHARGER (MODEL MC6S600)

Voltage Output	21.6 V
Rated Power	600 W
Single Battery Port Output Power	100 W

### STANDARD BATTERY (TB 47S)

Capacity	4500 mAh
Voltage	22.2 V
Battery Type	LiPO 6SEnergy
Energy	99.9 Wh
Net Weight	595 g
Operating Temperature	14° F to 104° F (-10°C to 40° C)
Max Charging Power	180 W

### OPTIONAL BATTERY (TB 48 S)

Capacity	5700 mAh
Voltage	22.8 V
Battery Type	LiPO 6S
Energy	129.96 Wh
Net Weight	680 g
Operating Temperature	14°F to 104° F (-10°C to 40° C)
Max Charging Power	180 W

### REMOTE CONTROLLER

Operating Frequency	920.6 MHz to 928 MHz (Japan); 5.725 GHz to 5.825 GHz; 2.400 GHz to 2.483 GHz
Max Transmission Distance	FCC Compliant: 3.1 mi (5 km), CE Compliant: 2.2 mi (3.5 km) (Unobstructed, free of interference)
Transmitter Power (EIRP)	10 dBm @ 900M, 13 dBm @ 5.8G, 20 dBm @ 2.4G
Video Output Port	HDMI, SDI, USB
Operating Temperature	14°F to 104° F (-10° to 40° C)
Battery	6000 mAh LiPO 2S