SPECIFICATIONS:

12 m/s

Takeoff Weight (with propellers): Without Batteries: 5020±20 g With Batteries: 9740±40 g **Max Takeoff Weight:** 15.8 kg **Dimensions:** Unfolded: 980×760×480 mm (L×W×H) (with landing gear) Folded: 490×490×480 mm (L×W×H) (with landing gear and gimbal) Aircraft carrying case dimensions: 779×363×528 mm (L×W×H) Max Payload: 6 kg **Propeller Size:** 25 inches **Diagonal Wheelbase:** 1070 mm Max Ascent Speed: 10 m/s Max Descent Speed: 8 m/s Max Horizontal Speed (at sea level, no wind): 25 m/s Max Takeoff Altitude: 7000 m Max Flight Time (no wind): 59 minutes Max Hover Time (no wind): 53 minutes Max Flight Distance (no wind): 49 km Max Wind Speed Resistance:



Max Yaw Angular Velocity: Yaw: 100°/s **Max Pitch Angle:** 35° **Operating Temperature:** -20° to 50° C (-4° to 122° F) (without solar radiation) **Global Navigation Satellite System** (GNSS): GPS + Galileo + BeiDou + GLONASS* Equipped with standard airborne ADS-B In receiver and dual antennas, supporting reception up to 20 km. **Hovering Accuracy Range (with** moderate or no wind): Vertical: ±0.1 m (with vision positioning) ± 0.5 m (with satellite positioning) ±0.1 m (with RTK positioning) Horizontal: ± 0.3 m (with vision positioning) ± 0.5 m (with satellite positioning) ±0.1 m (with RTK positioning) **RTK GNSS Accuracy: RTK Fix:** 1 cm + 1 ppm (horizontal), 1.5 cm + 1 ppm (vertical) **RTK Heading:** Supports RTK heading with an accuracy better than 2° Airborne ADS-B In: Equipped with standard airborne ADS-B In receiver and dual antennas, supporting reception up to 20 km. **Internal Storage:** N/A

Ports:

USB-C Debug Port × 1: USB 2.0 E-Port V2 × 4: At the lower part of the drone, with 120W single-port power Cellular Dongle 2 Interface × 2: On the underside of the drone **Propeller Model:** 2510F **Beacon:** Built into the aircraft **Ingress Protection Rating:** IP55

GIMBAL

Ports: Maximum Payload for Single Gimbal Connector: 1400 g Maximum Payload for Dual Gimbal Connector: 950 g Maximum Payload for Third Gimbal Connector: 3 kg for quick-release port, 6 kg for screw lock fastening



SENSING

Sensing Type:

Omnidirectional binocular vision system (surround view provided by full-color fisheye vision sensors) Horizontal rotating LiDAR, upper LiDAR and downward 3D infrared range sensor Six-direction mmWave radar

Forward:

Measurement Range: 0.4-21 m Detection Range: 0.4-200 m Field of View (FOV): 90° (horizontal), 90° (vertical)

Backward:

Measurement Range: 0.4-21 m Detection Range: 0.4-200 m Field of View (FOV): 90° (horizontal), 90° (vertical)

Lateral:

Measurement Range: 0.6-21 m Detection Range: 0.5-200 m Field of View (FOV): 90° (horizontal), 90° (vertical)

Downward:

Measurement Range: 0.5-19 m The FOV to the front and rear is 160° and 105° to the right and left.

Operating Environment:

Forward, Backward, Left, Right, and Upward:

Delicate texture on the surface, adequate light.

Downward:

The ground has rich textures and sufficient lighting conditions*, with a diffuse reflection surface and a reflectivity greater than 20% (such as walls, trees, people, etc.).

Rotating LiDAR:

Standard Measurement Range: 0.5-100 m @ 100,000 lux with 10% reflectivity target Measurement Range for Power Line: 35 m @ 30° @ 10,000 lux for 21.6 mm steelcore aluminum stranded wire with a relative body tilt angle of 30° to the left and right Field of View (FOV): 360° (horizontal), 58° (vertical) Point-Frequency: 520,000 points/second Laser Wavelength: 905 nm Eye Safety Level: Class 1 (IEC60825-1:2014), eye-safe Upper LiDAR (3D ToF): 0.5-25 m at night (reflectivity > 10%) The FOV to the up and down is 60° and 60° to the right and left. **Downward 3D Infrared Range Sensor:** Measurement Range: 0.3-8 m (reflectivity > 10%) The FOV to the front and rear is 60° and 60° to the right and left. mmWave Radar: Measurement Range for Power Line: 36 m for a 12.5mm steel-core aluminum stranded wire 50 m for a 21.6mm steel-core aluminum stranded wire FOV: ± 45° (horizontal and vertical)



FPV CAMERA

Resolution: 1080p Field of View (FOV): DFOV: 150° HFOV: 139.6° VFOV: 95.3° Frame Rate: 30fps Night Vision: Starlight Grade

VIDEO TRANSMISSION

Video Transmission System: **DJI O4 Enterprise Enhanced Video Transmission System** Live View Quality: Remote Controller: 3-channel 1080p/30fps **Operating Frequency and Transmitter** Power (EIRP): 902-928 MHz: < 30 dBm (FCC), < 16 dBm (MIC) 1.430-1.444 GHz: < 35 dBm (SRRC) 2.4000-2.4835 GHz: < 33 dBm (FCC), < 20 dBm (CE/SRRC/MIC) 5.150-5.250 GHz: < 23 dBm (FCC/CE) 5.725-5.850 GHz: < 33 dBm (FCC), < 14 dBm (CE), < 30 dBm (SRRC). **Max Transmission Distance** (unobstructed, free of interference):

40 km (FCC) 20 km (CE/SRRC/MIC)

Max Transmission Distance (with interference):

Strong interference (dense buildings, residential areas, etc.): approx. 1.5-6 km Medium interference (suburban counties, city parks, etc.): approx. 6-15 km

Weak interference (open spaces, remote areas, etc.): approx. 15-40 km

Max Download Speed:

Standard Mode: 80Mbps Downlink Playback Download: < 25 MBps Single-Channel Bitrate: ≤ 12 Mbps

Antenna:

WLAN Antenna × 8: 6 vertically polarized antennas and 2 horizontally polarized antennas sub2G Antenna × 2: 2 vertically polarized antennas 4G Antenna × 4 Operating Mode: 2T4R **Others:** Supports Dual Control Mode and 2-

channel Cellular Dongle 2



BATTERY

Model: **TB100 Capacity:** 20254 mAh **Standard Voltage:** 48.23 V Max Charging Voltage: 54.6 V Cell Type: Li-ion 13S **Energy:** 977 Wh Weight: 4720 ± 20 g **Charging Temperature:** 5° to 45° C (41° to 113° F) **Discharging Temperature:** -20° to 75° C (-4° to 122° F) **Battery Heating:** Single Battery: Support **Onboard: Support Battery Station: Support Discharge Rate:** 4C **Max Charging Power:** 2C Low-Temperature Charging: Supports low-temperature self-heating charging **Cycle Count:** 400

INTELLIGENT BATTERY

STATION

Model: BS100 Net Weight: 11.8 kg

Dimensions: 605×410×250 mm (L×W×H) **Supported Batteries:** TB100 Intelligent Flight Battery, TB100C Tethered Battery, WB37 Battery **Operating Temperature:** -20° to 40° C (-4° to 104° F) Input: 100-240 V (AC), 50-60 Hz, 10 A **Output:** USB-C: TB100 Battery Interface: 100-110 V: Approx. 1185 W 110-180 V: Approx.1474 W 180-240 V: Approx. 2184 W WB37 Battery Interface: 100-240 V: Approx. 52 W USB-C: 5.0 V 3.0 A, 9.0 V 3.0 A, 12.0 V 3.0 A, 15.0 V 3.0 A, 20.0 V 3.25 A **Number of Charging Channels:** Three TB100 and two WB37 batteries **Charging Mode:** Ready-to-Fly Mode 90%; Standard Mode 100%, Supports Fast Charging Mode and Silent Mode **Charging Time:** TB100/TB100C Battery From 0% to 100%: 220 V: 45 minutes (Fast Charging Mode); 110 minutes (Silent Mode) 110 V: 70 minutes (Fast Charging Mode);

110 minutes (Silent Mode)



DJI RC PLUS 2 ENTERPRISE ENHANCED

Video Transmission System: **DJI O4 Enterprise Enhanced Video Transmission System Max Transmission Distance** (unobstructed, free of interference): 40 km (FCC) 20 km (CE/SRRC/MIC) Video Transmission Operating **Frequency and Transmitter Power** (EIRP): 902-928 MHz: < 30 dBm (FCC), < 16 dBm (MIC) 2.400-2.4835 GHz: < 33 dBm (FCC), < 20 dBm (CE/SRRC/MIC) 5.150-5.250 GHz: < 23 dBm (FCC/CE) 5.725-5.850 GHz: < 33 dBm (FCC), < 14 dBm (CE), < 30 dBm (SRRC) Antenna: 2T4R, 2.4GHz/5.8GHz multi-beam highgain antenna sub2G Module: 2T2R **Enhanced Transmission:** Supports DJI Cellular Dongle 2 Wi-Fi Protocol: Wi-Fi Direct, Wireless Display, IEEE 802.11 a/b/n/ac/ax Supports 2×2 MIMO Wi-Fi, dual-band simultaneous (DBS) support for dual MAC, with data rates up to 1774.5 Mbps $(2 \times 2 + 2 \times 2$ 11ax dual-band simultaneous) **Wi-Fi Operating Frequency:** 2.4000-2.4835 GHz 5.150-5.250 GHz 5.725-5.850 GHz

Wi-Fi Transmitter Power (EIRP): 2.4 GHz: < 26 dBm, < 20 dBm (CE/SRRC/MIC) 5.1 GHz: < 23 dBm (FCC/CE/SRRC/MIC) 5.8 GHz: < 23 dBm (FCC/SRRC), < 14 dBm (CE) **Bluetooth Protocol:** Bluetooth 5.2 **Bluetooth Operating Frequency:** 2.400-2.4835 GHz **Bluetooth Transmitter Power (EIRP):** < 10 dBm**Screen Resolution:** 1920 × 1200 Screen Size: 7.02 inches **Screen Frame Rate:** 60fps **Brightness:** 1400 nits **Touchscreen Control: 10-Point Multi-Touch Built-in Battery:** 2S2P High Energy Density 18650 Lithium-ion Battery (6500 mAh @ 7.2 V) 46.8 Wh **External Battery:** Optional, WB37 (4920 mAh @ 7.6 V) 37 Wh **Charging Type:** Supports PD fast charging, with a maximum 20V/3.25A USB Type-C charger **Storage Capacity:** RAM 8G + ROM 128G UFS + expandable storage via microSD card



Charging Time: 2 hours for internal battery; 2 hours for internal plus external batteries. **Internal Battery Runtime:** 3.8 hours **External Battery Runtime:** 3.2 hours **Output Port: HDMI 1.4** Indicators: Status LED, battery level LED, connection status LED, tricolor light, brightness adjustable according to ambient light Speaker: Supports buzzer Audio: Array MIC **Operating Temperature:** -20° to 50° C (-4° to 122° F) **Storage Temperature:** Within one month: -30° to 45° C (-22° to 140° F) One to three months: -30° to 35° C (-22° to 113° F) Three months to one year: -30° to 30° C (-22° to 86° F) **Charging Temperature:**

5° to 40° C (41° to 104° F)

Supported Aircraft Model: Matrice 400 **Global Navigation Satellite System:** GPS + Galileo + BeiDou **Dimensions:** 268×163×94.5 mm (L×W×H) Weight: 1.15 kg (without external battery) Model: TKPL 2 **System Version:** Android 11 **External Interfaces:** HDMI 1.4, SD 3.0, USB-C with OTG support, max 65W PD charging, USB-A with USB 2.0 support Accessories:



