



S A N K O F A

G R O U P

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Proposal to Supply
DJI MAVIC 3 ENTERPRISE DRONES
for Search and Rescue Operations in Malawi.

Executive Summary

Sankofa Group Ltd is proud to submit this proposal to supply the Government of Malawi with DJI MAVIC 3 Enterprise drones specifically designed for search and rescue (SAR) operations. The MAVIC 3 Enterprise is a cutting-edge solution that enhances emergency response capabilities through advanced imaging technology, superior operational efficiency, and comprehensive support services.

Our proposal includes a robust training program to be conducted after the delivery window, ensuring that personnel are fully equipped to utilize the drones effectively in critical situations.



Drone Overview:

DJI MAVIC 3 Enterprise

The DJI MAVIC 3 Enterprise drone is engineered for versatile and efficient search and rescue missions, offering a suite of advanced features:

Key Features:

Dual-Camera System:

4/3 CMOS Wide Camera with 20MP resolution, enabling high-quality imaging even in low-light conditions.

Telephoto Camera with up to 56x hybrid zoom, providing the ability to identify targets from significant distances.

Advanced Thermal Imaging: Essential for detecting heat signatures in challenging environments, including nighttime operations.

RTK Module: Ensures centimeter-level accuracy for safe navigation and precise geolocation.

Extended Flight Time: Up to 45 minutes, allowing for longer operational periods without the need for frequent recharging.

Obstacle Sensing Technology: Comprehensive sensor coverage for safe operation in complex environments.



Included Accessories for Enhanced Operations

To maximize the effectiveness of the DJI MAVIC 3 Enterprise in search and rescue scenarios, the following accessories will be included with the drones:

Smart Controller Enterprise: Featuring a high-brightness display for optimal visibility in sunlight.

High-Intensity Spotlight: For illuminating search areas during nighttime or low-visibility conditions.

Loudspeaker: Facilitates communication with individuals in need of assistance or coordinating with ground teams.

RTK Module: Enhances navigation accuracy for detailed mapping and precise operations.

Three Intelligent Flight Batteries: Ensuring extended flight operations.

Charging Hub: Enables simultaneous charging of multiple batteries.

Propeller Guards: Increases safety during operations in confined spaces.

Portable Hard Case: For secure transport and storage of the drone and accessories.

First Aid Kit: Provides essential supplies for emergency care on-site.

Battery to Power Bank Adapter: Allows the use of drone batteries to charge other devices in the field.



Training and Support Services

Post-Delivery Training Program:

Sankofa Group Ltd will provide a comprehensive training program following the delivery of the drones, ensuring personnel are equipped with the necessary skills to operate the equipment effectively. The training will include:

Flight Operations: Hands-on experience in piloting the DJI MAVIC 3 Enterprise.

Search and Rescue Protocols: Strategies for utilizing drones during SAR missions, including thermal imaging techniques and communication with ground teams.

Maintenance and Care: Instruction on routine maintenance and care to ensure the longevity and performance of the drones.

Data Analysis: Training on how to process and analyze drone-collected data for effective mission planning.

Ongoing Support:

Software Upgrades: Regular firmware and software updates included, ensuring the drones operate with the latest features.

24/7 Technical Support: Access to our dedicated support team for troubleshooting and technical assistance.

On-Site Servicing: Trained technicians available for on-site servicing within Malawi, should repairs be required.



Comparison with Competitors

The DJI MAVIC 3 Enterprise outperforms its competitors in several key areas:

Longer Flight Time: With a flight duration of up to 45 minutes, it exceeds the capabilities of rivals like the Autel Evo II (40 minutes) and Parrot Anafi USA (32 minutes).

Superior Imaging Technology: The combination of a high-resolution camera and advanced thermal imaging offers unmatched performance for SAR operations.

Enhanced Zoom Functionality: The telephoto camera with 56x hybrid zoom allows for greater visibility and identification of targets from a distance, surpassing most competitors.

Precision Navigation: The integration of the RTK module provides centimeter-level accuracy, a feature not commonly found in similar drones.

Comprehensive Accessory Package: Unlike other models that may require additional purchases for essential tools, the MAVIC 3 Enterprise includes integrated accessories tailored for SAR missions.

Warranty and After-Sales Commitment

Two-Year Warranty

The DJI MAVIC 3 Enterprise drones come with a two-year warranty that covers manufacturing defects, including repair or replacement of faulty components.

After-Sales Support

Dedicated Technical Support: Continuous support available through phone and email for prompt issue resolution.

Scheduled Maintenance Checks: Options for regular maintenance services to ensure optimal performance throughout the warranty period.





Delivery Timeline

Sankofa Group Ltd is committed to delivering the DJI MAVIC 3 Enterprise drones and all accompanying accessories within six weeks of contract signing.

This timeline includes:

- Preparation and shipment of equipment.
- Comprehensive training to commence immediately following the delivery.



Specs

MAVIC 3 ENTERPRISE SERIES

Your Everyday Commercial Drone.

The Mavic 3 Enterprise Series redefines industry standards for small commercial drones. With a mechanical shutter, a 56× zoom camera, and an RTK module for centimeter-level precision, the Mavic 3E brings mapping and mission efficiency to new heights. A thermal version is available for firefighting, search and rescue, inspection, and night operations.

Compact and Portable
4/3 CMOS Wide Camera
56× Hybrid Zoom
640 × 512 px Thermal Camera
45-min Max Flight Time
DJI O3 Enterprise Transmission
Centimeter-level Positioning with RTK
High-Volume Loudspeaker

Streamlined and compact, Mavic 3 Enterprise Series can be carried in one hand and deployed at a moment's notice. Perfect for beginner and veteran pilots alike, it's built to perform on lengthy missions.

Two Models, Countless Applications

Wide 4/3 CMOS, 20MP, Mechanical Shutter

Tele Equivalent Focal Length: 162mm, 12MP, 56× Hybrid Zoom

Wide Equivalent Focal Length: 24mm, 48MP

Zoom Equivalent Focal Length: 162mm, 12MP, 56× Hybrid Zoom

Thermal [2] DFOV: 61°, Equivalent Focal Length: 40mm, Resolution 640 × 512

Premium Camera Performance Survey with Speed Mavic 3E's wide-angle 4/3 CMOS, 20MP sensor has a mechanical shutter to prevent motion blur and supports rapid 0.7-second interval shooting. Complete mapping missions with extraordinary efficiency without the need for Ground Control Points.

Improved Low-Light Performance Mavic 3E's Wide camera has large 3.3µm pixels that, together with intelligent low-light mode, offer significantly improved performance in dim conditions.

Focus and Find

Both Mavic 3E and Mavic 3T are equipped with a 12MP Zoom Camera, supporting up to 56× Max Hybrid Zoom to see essential details from afar.

See the Unseen

Mavic 3T's thermal camera has 640 × 512 resolution and supports point and area temperature measurement, high temperature alerts, color palettes, and isotherms to help you find your targets and make quick decisions.



Simultaneous Split-Screen Zoom

Mavic 3T's thermal and zoom cameras support 28× continuous side-by-side zoom for easy comparisons.

Exceptional Operational Efficiency

Batteries Optimized For Endurance 45-min flight durations let you cover more ground each mission, for surveying of up to 2 square kilometers in a single flight.

Max Flight Time

45 Minutes [3]

Surveying Area in a Single Flight

2 Square Kilometers

Fast charge batteries with 100W charging hub, or directly charge the drone with 88W fast charging.

Charging Hub

100W

Aircraft

88W

Next-Generation Image Transmission

Four built-in antennas support O3 Enterprise Transmission, with two antennas to transmit signals and four antennas to receive signals. The aircraft and remote controller both support the DJI Cellular Dongle.* This enables 4G Enhanced Transmission to work with O3 Enterprise Transmission for seamless operation in complex environments, helping to ensure safer flights.

Omnidirectional Sensing for Safe Flying

Equipped with wide-angle lenses on all sides for omnidirectional obstacle avoidance with zero blind spots. Adjust proximity alarms and braking distance depending on mission requirements.

Advanced RTH automatically plans the optimal route home, saving power, time, and hassle.

APAS 5.0 enables automatic rerouting around obstacles, so you can fly with peace of mind.

Flight Route

Real-Time Terrain Follow

Smart Oblique Capture

Corridor Mission Planning

Live Mission Recording

Automatically adjust altitude when mapping areas with variations in elevation, all without needing to import external elevation data thanks to Mavic 3E's omnidirectional sensing.

Elevate the efficiency of your oblique photography mission with Smart Oblique Capture. During flight, the gimbal automatically rotates in three directions: front, middle, and back. Two routes can collect all photos at the angles needed for high-precision 3D modeling.

Create automated flight missions of highways, rivers, oil pipelines, and more with Corridor Mission Planning. Simply draw a line on the map and it divides the area into mappable segments for straightforward surveying.

Record mission actions such as aircraft movement, gimbal orientation, photo shooting, and zoom level to create sample mission files for future automated flights.



Abundant Accessories
DJI RC Pro Enterprise
RTK Module
Loudspeaker
DJI Cellular Dongle*
D-RTK 2 Mobile Station
Full Software Suite
DJI Pilot 2
DJI FlightHub 2
DJI Terra
DJI Thermal Analysis Tool 3.0

A revamped Enterprise flight interface designed to improve piloting efficiency and flight safety. Drone and payload controls can be easily accessed with one tap. Clear presentation of flight details and navigational information improves user experience together with support for various route types.

All-in-one cloud drone operations management for your fleet with support for live annotations and cloud mapping for seamless ground-to-cloud synergy. Efficiently manage inspection operations with route planning and mission management.

Full featured mapping software for all stages of work, from mission planning to processing of 2D and 3D models.

Analyze, annotate, and process images captured by M3T using DTAT 3.0 to detect temperature abnormalities in your inspections.

User Data Security

Local Data Mode

One-Tap Clear All Device Data

AES-256 Video Transmission Encryption

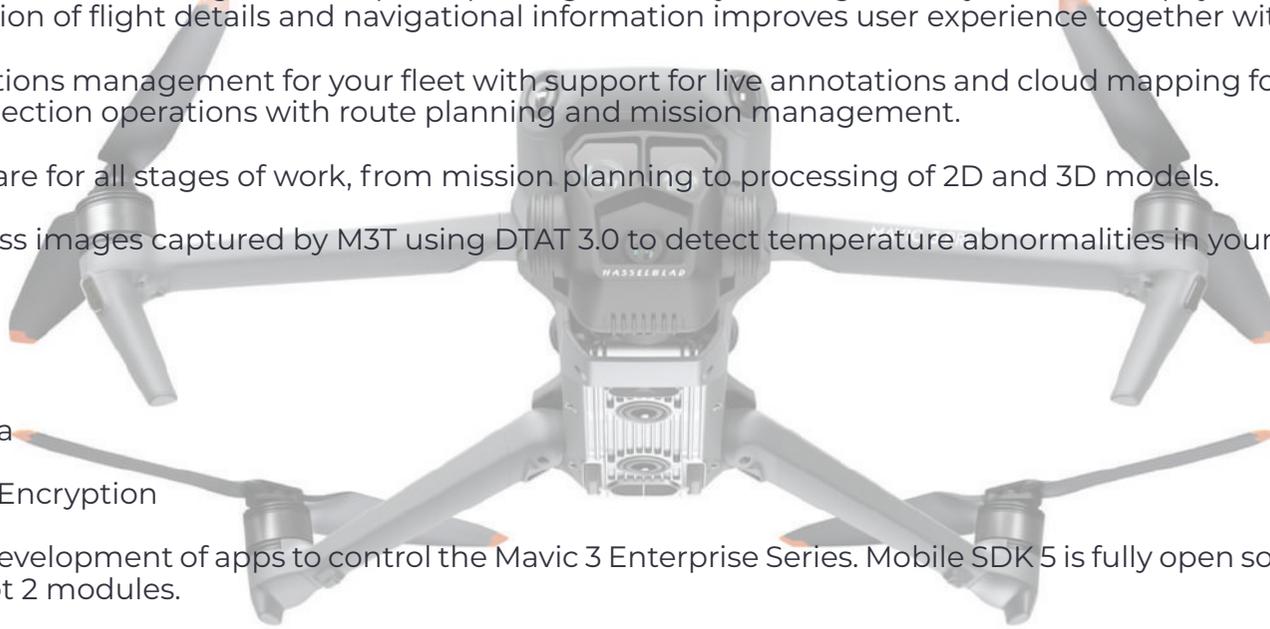
Mobile SDK 5 simplifies the development of apps to control the Mavic 3 Enterprise Series. Mobile SDK 5 is fully open source and comes with production code samples of core DJI Pilot 2 modules.

PSDK

PSDK is a unified interface that enables expansion of Mavic 3 Enterprise Series capabilities through third-party hardware.

Cloud API

With Pilot 2's built-in MQTT based protocols in DJI Cloud API, you can directly connect the Mavic 3 Enterprise Series to Third-Party cloud platforms without having to develop an App. Access the drone's hardware, video live-stream, and photo data.



Aircraft Specifications

• Weight (with propellers, without accessories) [1]

- DJI Mavic 3E: 915 g
- DJI Mavic 3T: 920 g

• Max Takeoff Weight

- DJI Mavic 3E: 1,050 g
- DJI Mavic 3T: 1,050 g

• Dimensions

- Folded (without propellers): 221×96.3×90.3 mm (L×W×H)
- Unfolded (without propellers): 347.5×283×107.7 mm (L×W×H)

• Diagonal Distance

- 380.1 mm

• Max Ascent Speed

- 6 m/s (Normal Mode)
- 8 m/s (Sport Mode)

• Max Descent Speed

- 6 m/s (Normal Mode)
- 6 m/s (Sport Mode)

• Max Flight Speed (at sea level, no wind)

- 15 m/s (Normal Mode)
- Forward: 21 m/s, Side: 20 m/s, Backward: 19 m/s (Sport Mode) [2]

• Max Wind Speed Resistance

- 12 m/s [3]

• Max Take-off Altitude Above Sea Level

- 6000 m (without payload)

• Max Flight Time (no wind)

- 45 mins [4]

• Max Hover Time (no wind)

- 38 mins

• Max Flight Distance

- 32 km

• Max Pitch Angle

- 30° (Normal Mode)
- 35° (Sport Mode)

• Max Angular Velocity

- 200°/s

• GNSS

- GPS+Galileo+BeiDou+GLONASS (GLONASS is supported only when the RTK module is enabled)

• Hovering Accuracy

- Vertical: ±0.1 m (with Vision System); ±0.5 m (with GNSS); ±0.1 m (with RTK)

- Horizontal: ±0.3 m (with Vision System); ±0.5 m (with High-Precision Positioning System); ±0.1 m (with RTK)

• Operating Temperature Range

- -10° to 40° C (14° to 104° F)

• Internal Storage

- N/A

• Motor Model

- 2008

• Propeller Model

- 9453F Propellers for Enterprise

• Beacon

- Built into the aircraft

• Class

- C2 (EU)

Wide Camera

• Sensor

- DJI Mavic 3E: 4/3 CMOS, Effective pixels: 20 MP
- DJI Mavic 3T: 1/2-inch CMOS, Effective pixels: 48 MP

• Lens

- DJI Mavic 3E:
FOV: 84°
Format Equivalent: 24 mm
Aperture: f/2.8-f/11
Focus: 1 m to ∞

- DJI Mavic 3T:
FOV: 84°
Format Equivalent: 24 mm
Aperture: f/2.8
Focus: 1 m to ∞

• ISO Range

- DJI Mavic 3E: 100-6400
- DJI Mavic 3T: 100-25600

• Shutter Speed

- DJI Mavic 3E:
Electronic Shutter: 8-1/8000 s
Mechanical Shutter: 8-1/2000 s
- DJI Mavic 3T:
Electronic Shutter: 8-1/8000 s

• Max Image Size

- DJI Mavic 3E: 5280×3956
- DJI Mavic 3T: 8000×6000

• Still Photography Modes

• DJI Mavic 3E:

- Single: 20 MP
- Timed: 20 MP
- JPEG: 0.7/1/2/3/5/7/10/15/20/30/60 s
- JPEG+RAW: 3/5/7/10/15/20/30/60 s
- Smart Low-light Shooting: 20 MP
- Panorama: 20 MP (raw image)

DJI Mavic 3T:

- Single: 12 MP/48 MP
- Timed: 12 MP/48 MP
- JPEG: 2/3/5/7/10/15/20/30/60 s*
- Panorama: 12 MP (raw image); 100 MP (stitched image)

* Shooting 48MP photo does not support 2s interval

- Smart Low-light Shooting: 12 MP

• Video Resolution

• H.264

- 4K: 3840×2160@30fps
- FHD: 1920×1080@30fps

• Bitrate

- DJI Mavic 3E:
4K: 130 Mbps
FHD: 70 Mbps
- DJI Mavic 3T:
4K: 85 Mbps
FHD: 30 Mbps

• Supported File Formats

- exFAT

• Photo Format

- DJI Mavic 3E: JPEG/DNG (RAW)
- DJI Mavic 3T: JPEG

• Video Format

- MP4 (MPEG-4 AVC/H.264)

Tele Camera

• Sensor

- 1/2-inch CMOS, Effective pixels: 12 MP

• Lens

- FOV: 15°
- Format Equivalent: 162 mm
- Aperture: f/4.4
- Focus: 3 m to ∞

• ISO Range



- DJI Mavic 3E: 100-6400
DJI Mavic 3T: 100-25600

• Shutter Speed

- Electronic Shutter: 8-1/8000 s

• Max Image Size

- 4000×3000

• Photo Format

- JPEG

• Video Format

- MP4 (MPEG-4 AVC/H.264)

• Still Photography Modes

- DJI Mavic 3E:
Single: 12 MP
Timed: 12 MP
JPEG: 0.7/1/2/3/5/7/10/15/20/30/60 s
Smart Low-light Shooting: 12 MP

- DJI Mavic 3T:
Single: 12 MP
Timed: 12 MP
JPEG: 2/3/5/7/10/15/20/30/60 s
Smart Low-light Shooting: 12 MP

• Video Resolution

- H.264
4K: 3840×2160@30fps
FHD: 1920×1080@30fps

• Bitrate

- DJI Mavic 3E:
4K: 130 Mbps
FHD: 70 Mbps

- DJI Mavic 3T:
4K: 85 Mbps
FHD: 30 Mbps

• Digital Zoom

- 8x (56x hybrid zoom)

• Thermal Camera [5]

• Thermal Imager

- Uncooled VOx Microbolometer

• Pixel Pitch

- 12 μm

• Frame Rate

- 30 Hz

• Lens

- DFOV: 61°
Format Equivalent: 40 mm
Aperture: f/1.0
Focus: 5 m to ∞

• Noise Equivalent Temperature Difference (NETD)

- ≤50 mK@F1.0

• Temperature Measurement Method

- Spot Meter, Area Measurement

• Temperature Measurement Range

- -20° to 150° C (-4° to 302° F, High Gain Mode)
0° to 500° C (32° to 932° F, Low Gain Mode)

• Palette

- White Hot/Black Hot/Tint/Iron Red/Hot Iron/Arctic/Medical/
Fulgurite/Rainbow 1/Rainbow 2

• Photo Format

- JPEG (8-bit)
R-JPEG (16-bit)

• Video Resolution

- 640×512@30fps

• Bitrate

- 6 Mbps

• Video Format

- MP4 (MPEG-4 AVC/H.264)

• Still Photography Modes

- DJI Mavic 3T:
Single: 640×512
Timed: 640×512
JPEG: 2/3/5/7/10/15/20/30/60 s

• Digital Zoom

- 28x

• Infrared Wavelength

- 8-14 μm

• Infrared Temperature Measurement Accuracy

- ±2° C or ±2% (using the larger value)

• Gimbal

• Stabilization

- 3-axis (tilt, roll, pan)

• Mechanical Range

- DJI Mavic 3E:

- Tilt: -135° to 100°

- Roll: -45° to 45°

- Pan: -27° to 27°

- DJI Mavic 3T:

- Tilt: -135° to 45°

- Roll: -45° to 45°

- Pan: -27° to 27°

• Controllable Range

- Tilt: -90° to 35°

- Pan: Not controllable

• Max Control Speed (tilt)

- 100°/s

• Angular Vibration Range

- ±0.007°

• Sensing

• Type

- Omnidirectional binocular vision system, supplemented with an infrared sensor at the bottom of the aircraft.

• Forward

- Measurement Range: 0.5-20 m
Detection Range: 0.5-200 m
Effective Sensing Speed: Flight Speed ≤15 m/s
FOV: Horizontal 90°, Vertical 103°

• Backward

- Measurement Range: 0.5-16 m
Effective Sensing Speed: Flight Speed ≤12 m/s
FOV: Horizontal 90°, Vertical 103°

• Lateral

- Measurement Range: 0.5-25 m
Effective Sensing Speed: Flight Speed ≤15 m/s
FOV: Horizontal 90°, Vertical 85°

• Upward

- Measurement Range: 0.2-10 m
Effective Sensing Speed: Flight Speed ≤6 m/s
FOV: Front and Back 100°, Left and Right 90°

• Downward

- Measurement Range: 0.3-18 m
Effective Sensing Speed: Flight Speed ≤6 m/s
FOV: Front and Back 130°, Left and Right 160°

• Operating Environment

- Forward, Backward, Lateral, and Upward: Surface with a clear pattern and adequate lighting (lux >15)

Downward: Diffuse reflective surface with diffuse reflectivity> 20% (e.g. walls, trees, people) and adequate lighting (lux >15)

Video Transmission

• Video Transmission System

• DJI O3 Enterprise Transmission

• Live View Quality

• Remote Controller: 1080p/30fps

• Operating Frequency [6]

• 2.400-2.4835 GHz

• 5.725-5.850 GHz

• Max Transmission Distance (unobstructed, free of interference)

• DJI Mavic 3E:

FCC: 15 km

CE: 8 km

SRRC: 8 km

MIC: 8 km

DJI Mavic 3T:

FCC: 15 km

CE: 8 km

SRRC: 8 km

MIC: 8 km

• Max Transmission Distance (Obstructed) [8]

• Strong Interference (dense buildings, residential areas, etc.)

: 1.5-3 km (FCC/CE/SRRC/MIC)

Medium Interference (suburban areas, city parks, etc.): 3-9 km

(FCC), 3-6 km (CE/SRRC/MIC)

Low Interference (open spaces, remote areas, etc.): 9-15 km

(FCC), 6-8 km (CE/SRRC/MIC)

• Max Download Speed[9]

• 15 MB/s (with DJI RC Pro Enterprise)

• Latency (depending on environmental conditions and mobile device)

• Approx. 200 ms

• Antenna

• 4 Antennas, 2T4R

• Transmission Power (EIRP)

• 2.4 GHz: <33 dBm (FCC), <20 dBm (CE/SRRC/MIC)

• 5.8 GHz: <33 dBm (FCC), <30 dBm (SRRC), <14 dBm (CE)

DJI RC Pro Enterprise

• Video Transmission System

• DJI O3 Enterprise Transmission

• Max Transmission Distance (unobstructed, free of interference)

• FCC: 15 km

CE/SRRC/MIC: 8 km

• Video Transmission Operating Frequency [6]

• 2.400-2.4835 GHz

• 5.725-5.850 GHz

• Antenna

• 4 Antennas, 2T4R

• Video Transmission Transmitter Power (EIRP)

• 2.4 GHz: <33 dBm (FCC), <20 dBm (CE/SRRC/MIC)

• 5.8 GHz: <33 dBm (FCC), <14 dBm (CE), <23 dBm (SRRC)

• Wi-Fi Protocol

• 802.11 a/b/g/n/ac/ax

Support 2x2 MIMO Wi-Fi

• Wi-Fi Operating Frequency [6]

• 2.400-2.4835 GHz

• 5.150-5.250 GHz

• 5.725-5.850 GHz

• Wi-Fi Transmitter Power (EIRP)

• 2.4 GHz: <26 dBm (FCC), <20 dBm (CE/SRRC/MIC)

• 5.1 GHz: <26 dBm (FCC), <23 dBm (CE/SRRC/MIC)

• 5.8 GHz: <26 dBm (FCC/SRRC), <14 dBm (CE)

• Bluetooth Protocol

• Bluetooth 5.1

• Bluetooth Operating Frequency

• 2.400-2.4835 GHz

• Bluetooth Transmitter Power (EIRP)

• < 10 dBm

• Screen Resolution

• 1920x1080

• Screen Size

• 5.5 inches

• Screen

• 60 fps

• Brightness

• 1,000 nits

• Touchscreen Control

• 10-point multi-touch

• Battery

• Li-ion (5000 mAh @ 7.2 V)

• Charging Type

• Recommended to be charged with the included DJI USB-C Power Adapter (100W) or USB charger at 12 V or 15 V

• Rated Power

• 12 W

• Storage Capacity

• Internal Storage (ROM): 64 GB

Supports a microSD card for expanded capacity.

• Charging Time

• Approx. 1 hour 30 minutes (with the included DJI USB-C Power Adapter (100W) only charging the remote controller or a USB charger at 15 V)

Approx. 2 hours (with a USB charger at 12 V)

Approx. 2 hours 50 minutes (with the included DJI USB-C Power Adapter (100W) charging the aircraft and remote controller simultaneously)

• Operating Time

• Approx. 3 hours

• Video Output Port

• Mini-HDMI port

• Operating Temperature Range

• -10° to 40° C (14° to 104° F)

• Storage Temperature

• -30° to 60° C (-22° to 140° F) (within one month)

-30° to 45° C (-22° to 113° F) (one to three months)

-30° to 35° C (-22° to 95° F) (three to six months)

-30° to 25° C (-22° to 77° F) (more than six months)

• Charging Temperature

• 5° to 40° C (41° to 104° F)

• Supported DJI Aircraft[10]

• DJI Mavic 3E

DJI Mavic 3T

• GNSS

• GPS+Galileo+GLONASS

• Dimensions

• Antennas folded and controller sticks unmounted:

183.27x137.41x47.6 mm (LxWxH)

Antennas unfolded and controller sticks mounted:

183.27x203.35x59.84 mm (LxWxH)

• Weight

• Approx. 680 g

• Model

• RM510B



Storage

• Supported Memory Cards

• Aircraft:
U3/Class10/V30 or above is required. A list of recommended microSD cards can be found below.

• Recommended microSD Cards

• Remote Controller:

SanDisk Extreme PRO 64GB V30 A2 microSDXC

SanDisk High Endurance 64GB V30 microSDXC

SanDisk Extreme 128GB V30 A2 microSDXC

SanDisk Extreme 256GB V30 A2 microSDXC

SanDisk Extreme 512GB V30 A2 microSDXC

Lexar 667x 64GB V30 A2 microSDXC

Lexar High-Endurance 64GB V30 microSDXC

Lexar High-Endurance 128GB V30 microSDXC

Lexar 667x 256GB V30 A2 microSDXC

Lexar 512GB V30 A2 microSDXC

Samsung EVO Plus 64GB V30 microSDXC

Samsung EVO Plus 128GB V30 microSDXC

Samsung EVO Plus 256GB V30 microSDXC

Samsung EVO Plus 512GB V30 microSDXC

Kingston Canvas Go! Plus 128GB V30 A2 microSDXC

Kingston Canvas React Plus 128GB V90 A1 microSDXC

Aircraft:

SanDisk Extreme 32GB V30 A1 microSDHC

SanDisk Extreme PRO 32GB V30 A1 microSDHC

SanDisk Extreme 512GB V30 A2 microSDXC

Lexar 1066x 64GB V30 A2 microSDXC

Kingston Canvas Go! Plus 64GB V30 A2 microSDXC

Kingston Canvas React Plus 64GB V90 A1 microSDXC

Kingston Canvas Go! Plus 128GB V30 A2 microSDXC

Kingston Canvas React Plus 128GB V90 A1 microSDXC

Kingston Canvas React Plus 256GB V90 A2 microSDXC

Samsung PRO Plus 256GB V30 A2 microSDXC

Battery

• Capacity

• 5000 mAh

• Standard Voltage

• 15.4 V

• Max Charging Voltage

• 17.6 V

• Type

• LiPo 4S

• Chemical System

• LiCoO₂

• Energy

• 77 Wh

• Weight

• 335.5 g

• Charging Temperature

• 5° to 40° C (41° to 104° F)

Charger

• Input

• 100-240 V (AC Power), 50-60 Hz, 2.5 A

• Output Power

• 100 W

• Output

• Max. 100 W (total)

When both ports are used, the maximum output power of each interface is 82 W, and the charger will dynamically allocate the output power of the two ports according to the load power.

Charging Hub

• Input

• USB-C: 5-20 V, 5.0 A

• Output

• Battery Port: 12-17.6 V, 8.0 A

• Rated Power

• 100 W

• Charging Type

• Three batteries charged in sequence

• Charging Temperature Range

• 5° to 40° C (41° to 104° F)

RTK Module

• Dimensions

• 50.2×40.2×66.2 mm (L×W×H)

• Weight

• 24±2 g

• Interface

• USB-C

• Power

• Approx. 1.2 W

• RTK Positioning Accuracy

• RTK Fix:

Horizontal: 1 cm + 1 ppm; Vertical: 1.5 cm + 1 ppm

Speaker

• Dimensions

• 114.1×82.0×54.7 mm (L×W×H)

• Weight

• 85±2 g

• Interface

• USB-C

• Rated Power

• 3 W

• Max Volume [11]

• 110 dB @ 1 m

• Effective Broadcast Distance [11]

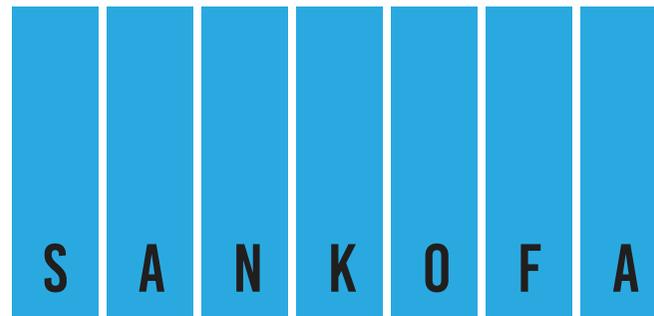
• 100 m @ 70 dB

• Bit Rate

• 16 Kbps/32 Kbps

• Operating Temperature Range

• -10° to 40° C (14° to 104° F)



GROUP

Extra Accessories

DJI Cellular Dongle*

It provides 4G Enhanced Transmission between the drone and the remote controller, and also facilitates mobile network access for the remote controller.

D-RTK 2 Mobile Station

D-RTK 2 Mobile Station is DJI's upgraded high-precision GNSS receiver that supports all major global satellite navigation systems, providing real-time differential corrections that generate centimeter-level positioning data for improved relative accuracy.

DJI Power 500 + DJI Power SDC to DJI Mavic 3 Series Fast Charge Cable

Specifications

DJI Power 500:

Capacity: 512 Wh

Weight: Approx. 7.3 kg

Dimensions: 305×207×177 mm (L×W×H)

AC Output:

DYM500H: AC 220-240 V, 50/60 Hz, rated: 800 W, max continuous output: 1000 W

DJI Mavic 3 Series Intelligent Flight Battery

Specifications

Model: BWX260-5000-15.4

Capacity: 5000 mAh

Battery Type: LiPo 4S

Charging Temperature: 5° to 40° C (41° to 104° F)

DJI 100W USB-C Power Adapter

Specifications

Input Voltage: 100-240 V (AC), 50-60 Hz, 2.5 A

Output Power: 100 W (When both ports are used, the maximum output power of each port is 82 W, and the charger will dynamically allocate the output power of the two ports according to the power load.)

Operating Temperature: 5° to 40° C (41° to 104° F)

Charging Time*:

DJI Mavic 3 Intelligent Flight Battery: approx. 1 hour and 10 mins

DJI RC-N1: approx. 2 hours and 40 mins

DJI RC: approx. 2 hours

DJI RC Pro: approx. 2 hours

DJI RC Pro Enterprise: approx. 1 hour and 30 mins

DJI Avata Intelligent Flight Battery: approx. 47 mins

DJI Goggles 2 Battery: approx. 1 hour and 50 mins

DJI Mavic 3 Series 100W Battery Charging Hub

When connected to a designated charger, the DJI Mavic 3 100W Battery Charging Hub can expand the charging interface to three. The battery charging hub enhances efficiency by charging batteries in sequence according to their remaining power level, with more fully-charged batteries receiving power first.

Specifications

Operating Temperature: 5° to 40° C (41° to 104° F)

Input: 5-20 V, max 5 A

Charging Time:

With the DJI 100W USB-C Power Adapter: approx. 1 hour and 10 minutes (for each battery)

With the DJI 65W Portable Charger: approx. 1 hour and 36 minutes (for each battery)

With the DJI 65W Car Charger: approx. 1 hour and 36 minutes (for each battery)

General

- Model
- DYM1000L/DYM1000H
- Capacity
- 1024 Wh
- Net Weight
- Approx. 13 kg
- Dimensions
- 448×225×230 mm (L×W×H)
- Number of Ports
- AC Output × 2
 - USB-C × 2
 - USB-A × 2
- SDC × 1
- SDC Lite × 1
- AC Input × 1
- Max Operating Altitude
- 3000 m

Output Specifications

• AC Output

• DYM1000L: AC 100-120 V, 50/60 Hz, max continuous output: 2200 W,* max output: 2600 W (total),** peak output: 4400 W

• DYM1000H: AC 220-240 V, 50/60 Hz, max continuous output: 2200 W,* max output: 2600 W (total),** peak output: 4400 W

AC output data varies by country and region.

Given that the voltage in Japan is 100 V, the max continuous output power of the Japanese version is 2000 W.

* At a room temperature of 25° C (77° F), Power 1000 can stably provide a max continuous output of 2200 W until the battery runs out. Data measured in a DJI laboratory.

* At an output power of 2600 W, the DYM1000L prototype can sustain for 30 seconds, and the DYM1000H prototype can sustain for 60 seconds. Durations were measured when DJI Power 1000 is at approx. 25° C (77° F) and 50% battery level. Duration may vary due to differences in battery temperature and battery level. Refer to the actual usage. It is recommended to use max power output when the battery is at a moderate temperature and a relatively higher battery level. Data measured in a DJI laboratory.

• AC Output (Bypass Mode)

• DYM1000L: AC 100-120 V, 12 A, 1440 W

• USB-A Output

• 5 V, 3 A

• 9 V, 2 A

• 12 V, 2 A

Max output power per channel: 24 W

• USB-C Output

• 5 V, 5 A

• 9 V, 5 A

• 12 V, 5 A

• 15 V, 5 A

• 20 V, 5 A

• 28 V, 5 A (EPR)

Max output power per channel: 140 W*

* Each USB-C port supports a max output power of 140 W. The device being charged must support the PD 3.1 protocol and use a USB cable that meets EPR specifications.

- SDC and SDC Lite Output
- SDC: 9-27 V, max current: 10 A, max output power: 240 W
- SDC Lite: 9-27 V, max current: 10 A, max output power: 240 W

Both of the SDC and SDC Lite ports support extensive accessories.

Input Specifications

- AC Input
- DYM1000L: AC 100-120 V, 1200 W (recharging), 1440 W (Bypass mode)
- DYM1000H: AC 220-240 V, 1200 W (recharging), 2200 W (Bypass mode)
- SDC and SDC Lite Input
- SDC: DC 32-58.4 V, max 400 W, 8 A
- SDC Lite: DC 32-58.4 V, max 400 W, 8 A

Both of the SDC and SDC Lite ports support extensive accessories.

Battery

- Cell Chemistry
- LFP (lithium ferrophosphate)
- Cycle Life
- Maintains over 70% capacity after 4000 cycles.

Measured at 25 /77°F room temperature, being recharged in the 600W Standard Recharge Mode, and at an output power of 1000 W.

Operating Temperature

- Power Supply Temperature
- -10° to 45° C (14° to 113° F)
- Recharging Temperature
- 0° to 45° C (32° to 113° F)
- Storage Temperature
- -10° to 45° C (14° to 113° F)

DJI Goggles Integra

Spec

Model : RCDS13

Weight :

Approx. 410 g (battery included)

Dimensions (L×W×H):

With antennas folded: 170×104×75 mm

With antennas unfolded: 205×104×104 mm

Screen Size (single screen):

0.49-inch

Resolution (single screen):

1920×1080

Up to 100 Hz

IPD Range:

56-72 mm

FOV (single screen)

44°

Video Recording Format

MOV

Supported Video Playback Formats

MP4, MOV (video formats: H.264, H.265; audio formats: AAC, PCM)

Operating Temperature

-10° to 40° C (14° to 104° F)

Power Input

Built-in battery

Supported SD Cards

microSD (up to 512 GB)

Recommended microSD Cards

SanDisk Extreme U3 V30 A1 32GB microSDXC

SanDisk Extreme Pro U3 V30 A1 32GB microSDXC

Lexar 1066x U3 V30 A2 64GB microSDXC

Lexar 1066x U3 V30 A2 128GB microSDXC

Lexar 1066x U3 V30 A2 256GB microSDXC

Lexar 1066x U3 V30 A2 512GB microSDXC

Kingston Canvas Go! Plus U3 V30 A2 64GB microSDXC

Kingston Canvas Go! Plus U3 V30 A2 128GB microSDXC

Kingston Canvas React Plus U3 V90 A1 64GB microSDXC

Kingston Canvas React Plus U3 V90 A1 128GB microSDXC

Kingston Canvas React Plus U3 V90 A1 256GB microSDXC

Samsung EVO Plus U3 V30 A2 512GB microSDXC

Video Transmission

When used with different aircraft, the goggles will automatically select the corresponding firmware to match the video transmission specification of the aircraft.

DJI Avata: O3+

Operating Frequency

2.4000-2.4835 GHz

5.725-5.850 GHz

The 5.8 GHz frequency band is currently banned in certain countries or regions. For details, please refer to local laws and regulations.

Transmitter Power (EIRP)

2.4000-2.4835 GHz:

< 30 dBm (FCC)

< 20 dBm (CE/SRRC/MIC/KC)

5.725-5.850 GHz:

< 30 dBm (FCC)

< 23 dBm (SRRC)

< 14 dBm (CE/KC)

Transmission Latency

1080p/100fps: as low as 30 ms

1080p/60fps: as low as 40 ms

Measured in an open outdoor environment without interference. Actual data varies with different aircraft models.

Max Transmission Distance

When used with DJI Avata or the DJI O3 Air Unit, DJI Goggles Integra can achieve the following max video transmission distance:

10 km (FCC), 2 km (CE), 6 km (SRRC)

When used with DJI FPV, DJI Goggles Integra can achieve the following max video transmission distance:

10 km (FCC), 6 km (CE), 6 km (SRRC), 6 km (MIC)

Max Video Bitrate

50 Mbps

Measured in an open outdoor environment without interference.

Actual data varies with operating environment.

Battery

Weight

Approx. 185 g (headband included)

Dimensions (L×W×H)

120×51×71 mm

Capacity

2450 mAh

Voltage

5.6-8.4 V

Type

Li-ion

Chemical System

LiNiMnCoO₂

Energy

17.64 Wh

Charging Temperature

5° to 45° C (41° to 113° F)

Max Charging Power

15 W (charging when powered off)

Operating Time

Approx. 2 hours

Measured with an ambient temperature of 25° C (77° F), screen brightness at 4, connection to DJI Avata, the video transmission mode set to 1080p/100fps, head tracking off, and the goggles' battery fully charged and not supplying power to external devices such as smartphones.





Conclusion

Sankofa Group Ltd presents a compelling case for the acquisition of **DJI MAVIC 3 Enterprise drones**, offering a robust solution to enhance the Government of Malawi's search and rescue capabilities. With superior technology, an extensive accessory package, a comprehensive training program, and dedicated after-sales support, these drones will empower emergency response teams to operate more effectively and efficiently.

We are excited about the potential collaboration with the Government of Malawi and are committed to ensuring the success of search and rescue operations across the nation. We look forward to the opportunity to demonstrate the capabilities of our proposed solution.

Pricing

A detailed breakdown of costs associated with the drones, accessories, training, and ongoing support is attached.

We are eager to contribute to the advancement of search and rescue operations in Malawi and look forward to your favorable consideration of this proposal.





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