

# MRM-2S Multi-Role Multicopter

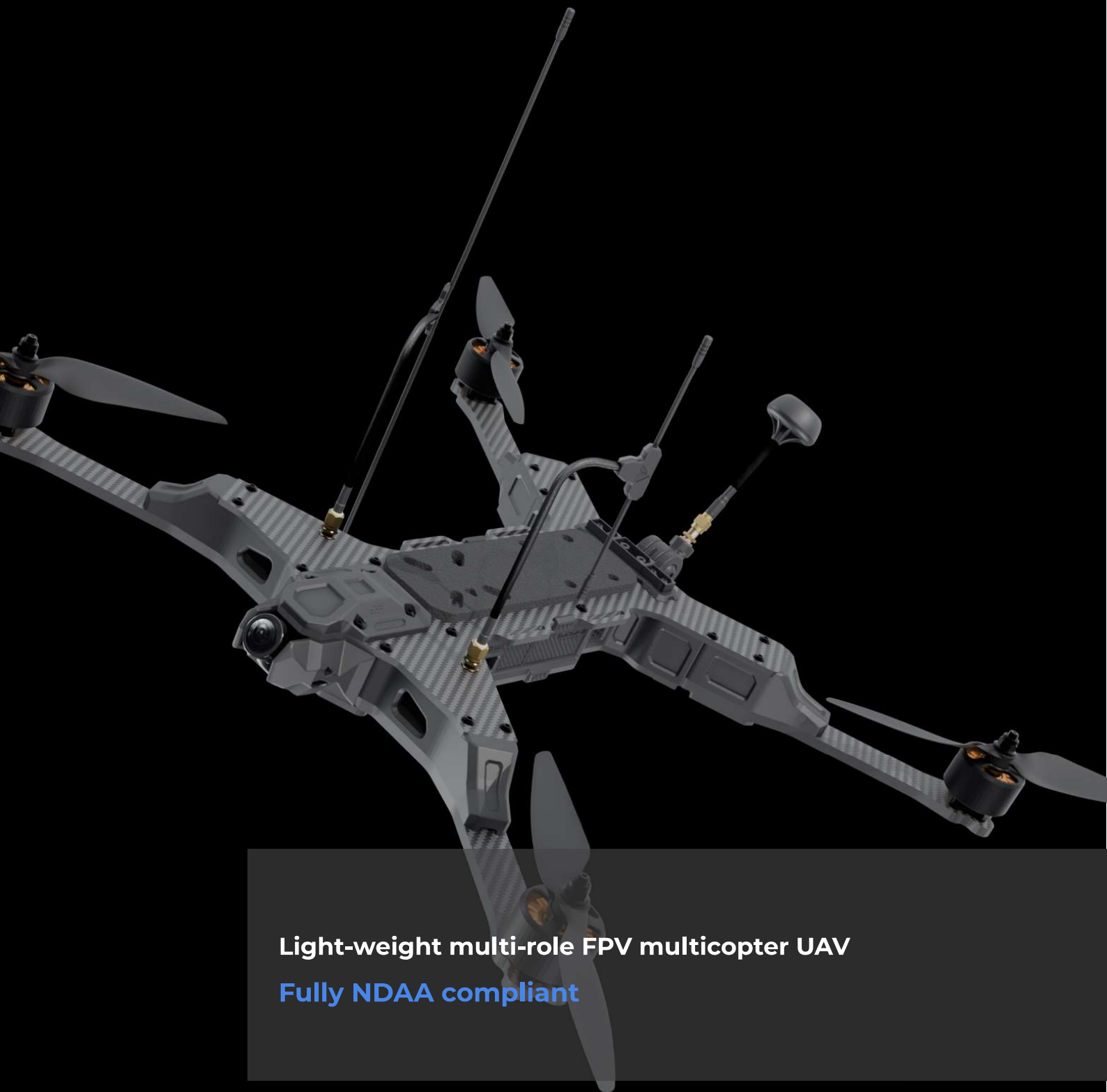
Product Brochure

Distribution to Defense Clients Only / Not for public disclosure

Jun 2024



ORQA



**Light-weight multi-role FPV multicopter UAV**

**Fully NDAA compliant**



Designed and Manufactured in the EU

# MRM-2S Multi-Role Multicopter



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## Product Brochure

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## Description

MRM-2S is a light-weight multi-role First Person View (FPV) multicopter UAV, designed and built for versatility, effectiveness, and cost efficiency. Depending on a model, MRM-2S comes either with an EW-resilient IRONghost control link radio operating on licensed sub-GHz bands, or with a 2.4GHz Ghost control link radio operating on an unlicensed ISM band. All versions are equipped with a 5.8GHz analog video transmitter.

Built around a robust 10" prop airframe, the MRM-2S strikes a fine balance between vehicle form-factor, payload capacity, and range. Thanks to the IRONghost control link, the MRM-2S can achieve unparalleled range with best-in-class EW performance.

## Features and Specifications

- Robust carbon fiber body and arms;
- Prop disc separated to clear larger payloads of up to **3.5kg**, with correct center of gravity placement;
- 30x30 **F405** FC with **Betaflight**, **Ardupilot**, **iNav**, and **PX4** options;
- 30x30 **60A** ESC with **AM32** firmware;
- Analog video transmitter operating on ISM 5.8GHz band;
- C2 link options: EW-resilient dual sub-GHz **IRONghost** or ISM 2.4GHz band **Ghost**;
- Optional **GPS**, with integrated **magnetometer**, and auxiliary barometric **altimeter**;
- **MAVLINK** support and **ATAK** integration with **Orqa Tac.Ctrl** tactical controller;
- Foldable 5.8GHz video transmitter antenna, mounted clear of battery and payload;
- Motors: **2814**, **880kV**;
- Props: **10"**, with **445mm** between diagonal motor axes;
- Camera: **4:3**, **1200TVL**, FOV-D 125°; suitable for low light camera for night operations)
- Battery: 22.2V **7000mAh 6s 95C** LiPo (868g) (sold separately);
- Frame weight: **478g**;
- Flight time: **~29 mins** w/o payload;
- Est. Range:
  - **up to 30km** without payload, LOS;
  - **up to 20km** with **1.2kg** payload, LOS;
  - **up to 19km** with **1.5kg** payload, LOS;
  - **up to 15km** with **3.0kg** payload, LOS.



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