

# MF30-M4 water flow measurement

The MF30-M4 are specialized flow measurement payloads designed for DJI Matrice 4. Integrating both radar depth and radar velocity sensors, these payloads offer a compact and efficient solution for hydrological monitoring. Compared to traditional large-scale drone-based flow measurement systems, the MF30 series significantly reduces flight costs and enhances portability. Paired with dedicated flow measurement software, the system supports both automatic and manual modes, making it ideal for routine water inspection and emergency flood response. It includes configurable parameters such as left/right bank coefficients, surface velocity coefficients, vertical average coefficients, and multiple flow calculation formulas — greatly improving data accuracy and professional reliability. With its lightweight design, the MF30 can be easily transported to challenging terrains such as mountainous or muddy areas. Its low deployment and maintenance costs, combined with high operational efficiency, make it a powerful tool for hydrological monitoring tasks.



MF30-M4

## Advantage



lightweight



Speed Measurement Range



Distance Measurement Range



IP Rating

### Small but Powerful

- Only 180g
- Compatible with DJI M4
- Quick installation
- Enhances flight and transport portability

### Radar Integration

- Radar Depth Sounder
- Radar Speedometer
- Meets diverse measurement

### Pilot Integration

- Manual Flight Mode
- Map-based point selection
- Automated task execution

### Professional Accuracy

- Speed measurement range: 0.1 – 20 m/s
- Distance measurement range: 0.18 – 30 m

## Specifications

Model	MF30-M4
Weight	≤180g
Dimensions	205*129*80mm
Communication	PSDK
IP Rating	IP55
Operating Temperature	-20~+50°C
Speed Measurement Radar	
Operating Frequency	24GHz
Speed Measurement Range	0.1-20m/s
Speed Measurement Accuracy	±0.01m/s (when flow speed <1m/s)
	≤±1%F.S (when flow speed ≥1m/s)
Distance Measurement Range	0~45m
Recommended Measurement Altitude	Altitude Above Water 1~10m
Speed Measurement Resolution	0.01m/s
Distance Measurement Radar	
Operating Frequency	80GHz
Distance Measurement Range	0.18~30m
Distance Measurement Accuracy	±2mm