FIFISH E-MASTER · NAVI

Technical Specifications

ROV

| Dimensions | 430mm(l) x 345mm(w) x 185mm(h) |
|-----------------|--|
| Weight | 6.7kg |
| Depth Rating | 200m |
| Payload | 5kg |
| Speed | >3 Knots (>1.5 m/s) |
| Propellers | 6 Degrees of Freedom |
| | Movement: left & right, up & down, forward & backward, 360° yaw, 360° pitch, 360° roll |
| | Hard Anodized Aluminum Alloy |
| Operating Temp. | -10 °C ~ 60 °C (Operational Temp. Range) |
| | 1-4h (Dependent on Work Environment) |
| Power | 69.12wh * 2 Capacity |
| | Hot-Swappable Power System |
| | Smart Battery Management |
| | Quick Charging: 90% Full Power in 1h (Actual Charging Speed May Differ) |
| Navigation | Underwater Inertial Navigation System (U-INS) |

Sensors

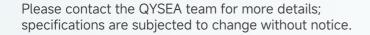
| Downward DVL | Detection range: 0.15m-60m | Station Lock & Collision Avoidance |
|----------------------------|-------------------------------|--|
| Forward DVL | Detection range: 0.15m-10m | |
| Gyroscope | ±0.1° | Posture Lock: |
| Accelerometer | ±0.1° | ±0.1° pitch angle or ±0.1° roll angle, |
| Magnetometer | ±1° | moving in any direction |
| Depth Sensor | Suspension within ±1 cm | Depth Lock |
| Altimeter / Echosounder | Detection Range: 0.3m-50m | Bathymetric Survey & Altitude Track/Lock |
| Temp. Sensor | ±1° | |
| Laser Scaler | Wavelength: 660nm (Red) | |
| | Type: Dual Spot Laser | Smart Measurement |
| | Distance: 10cm Apart | |



| Camera | | |
|----------------------------|---|--|
| Sensor | 1/1.8" | |
| Pixels | 12MP | |
| Aperture | f/2.5 | |
| Field of View | Above Water: 176° Underwater: 146° | |
| Focus Range | 0.1m~ + ∞ | |
| Shutter Speed | 5-1/5000 Second | |
| Burst Shooting | 1/3/5/10 Frames | |
| ISO | 100-3200 (Auto/Manual) | |
| White Balance | 2500K-7500K (for Seawater & Freshwater, Auto/Manual) | |
| Exposure Compensation | -3.0 EV to +3.0 EV (Auto/Manual) | |
| Photo Resolution | 4:3 = 4000 × 3000 16:9 = 3840 × 2160 | |
| Photo Format | JPEG, DNG | |
| | 4K UHD: 25/30 fps | |
| Video | 1080p FHD: 25/30/50/60/100/120 fps | |
| Resolution | 720P HD: 25/30/50/60/100/120/200/240 fps | |
| Video Encode | H.264 | |
| Video Format | MP4 | |
| Stabilization | Electronic Stabilization (EIS) | |
| Color System | NTSC & PAL | |
| Internal Storage | External MicroSD Storage (128GB Standard, Supports up to 512GB) | |
| Al Vision Functionality | Vision Lock, Diver Tracking, Imaging Dehazing | |
| | | |

Lighting

| Brightness | 5000 Lumen LED * 2 |
|----------------------|--------------------|
| ССТ | 5500K |
| Beam Angle | 160° |
| Brightness Levels | 3 |





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Charger

| ROV | Input: 100-240 V, 50/60 Hz - 2.5A MAX |
|------------|---------------------------------------|
| | Output: 18V – 10A |
| Controller | Input: 100-240V, 50/60 Hz, 0.5A MAX |
| | Output: 5V – 3A |

Port Interface

| Quantity | 2 Ports, Expandable to 6 Ports (Extension Dock Required) |
|---------------------|---|
| Material | Stainless steel 316 |
| Interface | 11V-24V @ 5A ETHERNET, UART |
| Adjustable Power | Adaptive Voltage Range for External Add-on Accessories |
| Secure Plug | Self-diagnostic Tests & Leakage Prevention |

Controller

| Wireless Network | 5GHz WiFi: 802.11a/n/ac |
|-------------------------|--|
| Usage Time | Up to 4 hours |
| File Download Format | MicroSD Card: FAT32 & EXFAT (128GB Max. Storage Support) |
| HDMI Output | HDMI Box Required |

Tether & Spool

| Cable Length | 200m |
|-------------------------------|------------------|
| Tensile Strength | 120kgf |
| Cable Diameter | 4.6mm |
| Tether Weight (Underwater) | Neutral Buoyancy |
| Waterproof Rating | IP65 |

