Nemo Technical Specs

Underwater drone Specs

Feature Specs	
Dimensions	404 (L)×290 (W)×114 (H) mm
Weight	3.4kg
Thruster	Two set horizontally, and two set vertically
Propeller	High-efficiency 5 blade propellers
LED	Double 2*2 adjustable Matrix LED Modules
Sensor	Depth, posture, temperature and humidity
Main sealed cabin material	PC+Glass fiber
Shell material	PPO
Performance Specs	
Time of endurance	3 hours
Vertical hovering accuracy	Centimeter level
Advancing speed	Max. 2.0m/s
Maximum diving depth	100m
Camera	4K/30fps
Operating ambient temperature	-2~35℃
Posture Control	Forward/Backward Turn Left/Right Float/Pinch/Hover
System protection	Temperature protection & Battery protection

Reels Specs

Dimensions	220×220×170 mm
Weight	920g

Kevlar Zero Buoyancy Cable

Length	50m/100m
Weight	0.6kg/1.1kg
Diameter	3.8mm

WiFi Base Station

Dimensions	105mm*75mm*159mm
Weight	337g
WiFi frequency	2.4G Hz

Camera Parameters

Video processing chip	Ambarella A12
Lens	FOV 150° f/2.8
Image resolution	16M (4608×3456 4:3) 14M (4254×3264 4:3) 12M (4000×3000 4:3) 8.3M (3840×2160 16:9)
Video resolution	4K: 3840×2160 30fps 16:9 2.7K: 2704×1520 30fps 16:9 1080P: 1920×1080 120fps 16:9 1080P: 1920×1080 30fps 16:9
Shooting mode of photos	Single shooting/Continuous shooting mode/ Time-lapse shooting
Continuous shooting mode	Off, 3pic/s, 5pic/s, 10pic/s
Time-lapse shooting	Off/ 1s/ 2s/ 5s/ 10s/ 30s/ 60s
Maximum bit stream of video storage	60 Mbps
Image format	JPEG
Video format	MP4 H.264
Image quality	S.fine/fine/normal
Video quality	S.fine/fine/normal
Memory card type	32/64 GB Micro TF card（UHS-3)
Other functions	Electronic Filters/Video watermark

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Nemo Battery and Charger Specs

Capacity	4000mAh
Battery design	Detachable and waterproof
Working time	3 hours
Charging time	2.5 hours
Voltage	11.1V
Charging current	2.2A
Battery type	Polymer lithium battery
Overall weight of battery	760g
Battery charger	Input 100-240V; Output 12.6V

WiFi Base Station Battery and Charger Specs

Capacity	2600mAh
Battery design	Detachable
Working time	8 hours
Charging time	1.5 hours
Voltage	8V
Charging current	1A
Battery type	18650 lithium battery
Overall weight of battery	150g
Battery charger	Input 100-240V; Output 8.4V

APP Control, Image Transmission and Others

Mobile device App	Aquarobotman
APP platform	IOS & Android
Real-time image transmission	720P @ 30fps
Delay	200ms (depending on actual shooting environment and mobile device)
Mobile device system version requirement	IOS 10.0 or later/ Android 5.0 or later
Max. effective signal range	50m (without interfere or shield)