

OWA GLADIUS MINI Underwater Drone



Ocean Works Asia (OWA) has the ability to carry out underwater inspections using the GLADIUS MINI Underwater Drone. The GLADIUS MINI is the World's 1st Intelligent 5-Thruster Mini-size Underwater Drone.

The OWA system has the ability to;

- Capture HD video and photos with the High-resolution camera 4K UHD Camera
- Live Stream video (when internet connection allows)
- Record video with overlay and commentary



Operationally the GLADIUS MINI is ideally suited for inspections in confined spaces, where diver access is limited. This eliminates the need for using divers in confined spaces and areas where diver deployment is restricted.

Used for the inspections of:

- Internal visual inspections of Intake and Outfall pipes
- Internal visual inspections of water tanks
- Nearshore seabed surveys
- Surveys in remote lakes or dams
- Visual inspections of wharfs and jetty piles
- Underwater inspections at remote locations



The OWA GLADIUS MINI is manned by a small team of 2 pilots. It can be easily mobilised and transported by being hand carried. There are no requirements for external power when carrying out short duration underwater inspections as the batteries are able to last up to 2 hrs.



Providing Cost Effective Solutions



Max Depth

100m

Video Bitrate

60M

Tether Length

100m/250m

SD Card Storage

64Gb /128Gb

Video Resolution

3840 x 2160

Picture Max Resolution

12M

Base Station

Weight	<400g
Battery Capacity	29.25Wh (2500mAh)
Battery Life	≥ 6h (depending on the environment)
Battery Cycle	>300 times
HDMI Output	Yes
Micro SD (TF) Memory Recording	Yes
Size	151 x 107 x 45mm
Wireless WIFI Distance	≤10m

⚠ Note: The base station is not waterproof and should not be into water.

ROV

Size	385 x 226 x 138mm
Battery Capacity	55.5Wh (500mAh)
Weight	< 2.5kg
Buoyancy	-10g~10g
Operating Temperature	-10℃~60℃
Maximum Depth	100m
Maximum Speed	4Kn (2m/s)
Maximum Rise/Fall Speed	2Kn (1m/s)
Maximum Flow Resistance	2Kn (1m/s)
Battery Life	2h (go forward at L. Speed advances in the fixed eph mode)
Battery Cycle	>300 times

Sensor

IMC	Three-axis gyroscope/acceleration/compass
Depth Sensor	+/- 0.5m
Temperature Sensor	+/- 2℃

Adapter

adapter	3A/12.6V
ROV Charging Time	2h
Base Station Charging Time	1h

⚠ Note: ROV and base station are used the same adapter.

Dimmable LED Lights

Brightness	2 x 1200LM
Color Temperature	4000K - 5000K
CRI	80
Maximum Power	2 x10W
Dimming	Manually adjustable

Tether

Weight	1.8kg (100m)/4.0kg (250m)
Tether	100m/250m

Camera

CMOS	1/2. 3 inches
Aperture	F3.0
Focal Length	4.0mm
ISO Range	100-3200
Field of View	95°
Maximum Resolution of the Image	12M (4000*3000)
Picture Type	JPEG/DNG
Video Resolution	FHD:1920 x 1080 30Fps
	FHD:1920 x 1080 60Fps
	FHD:1920 x 1080 120Fps
	UHD: 3840 x 2160 (4K) 30Fps
Video Maximum Stream	60M
Video Type	MP4
SD Card Memory	64Gb/128Gb

Remote Controller

Working Frequency	2.4GHz - 2.485GHz
Wireless Distance (Between smart device and controller)	<10m
Charging Time	1h
Battery Life	5h

⚠ Note: Power on the remote controller while charging, so that you can see the battery indicator is on.

