# GLADIUS mini

## Introduction

# Conquer the Waters

GLADIUS MINI is the first five thruster minisize underwater drone in the world. Equipped with a 4K ultra HD camera, it can dive up to 330 feet deep and is perfect for underwaterphotography and exploring.

On the basis of generation product, it increases the depth mode and ±45 ° adjustable tilt-lock mode, can be used for underwater filming and underwater inspection.

The submarine's fuselage and five-propeller design make the GLADIUS MINI more stable and easier to operate while filming underwater.

It can be used for diving photography, yacht entertainment and scientific exploration and inspection of many industries (hull quay, fish culture, reservoir dam, etc.).

| 4K UHD Camera | Portable Backpack | One Touch Lock-Depth Mode | ±45° Adjustable Tilt-Lock Mode |
| --- | --- | --- | --- |
| One Touch Share on Social | Dive to 330ft | Live Stream (YouTube/Facebook) | 2hr Runtime |

Thrusters

Tether Connector

LED Lights

4K Ultra HD Camera
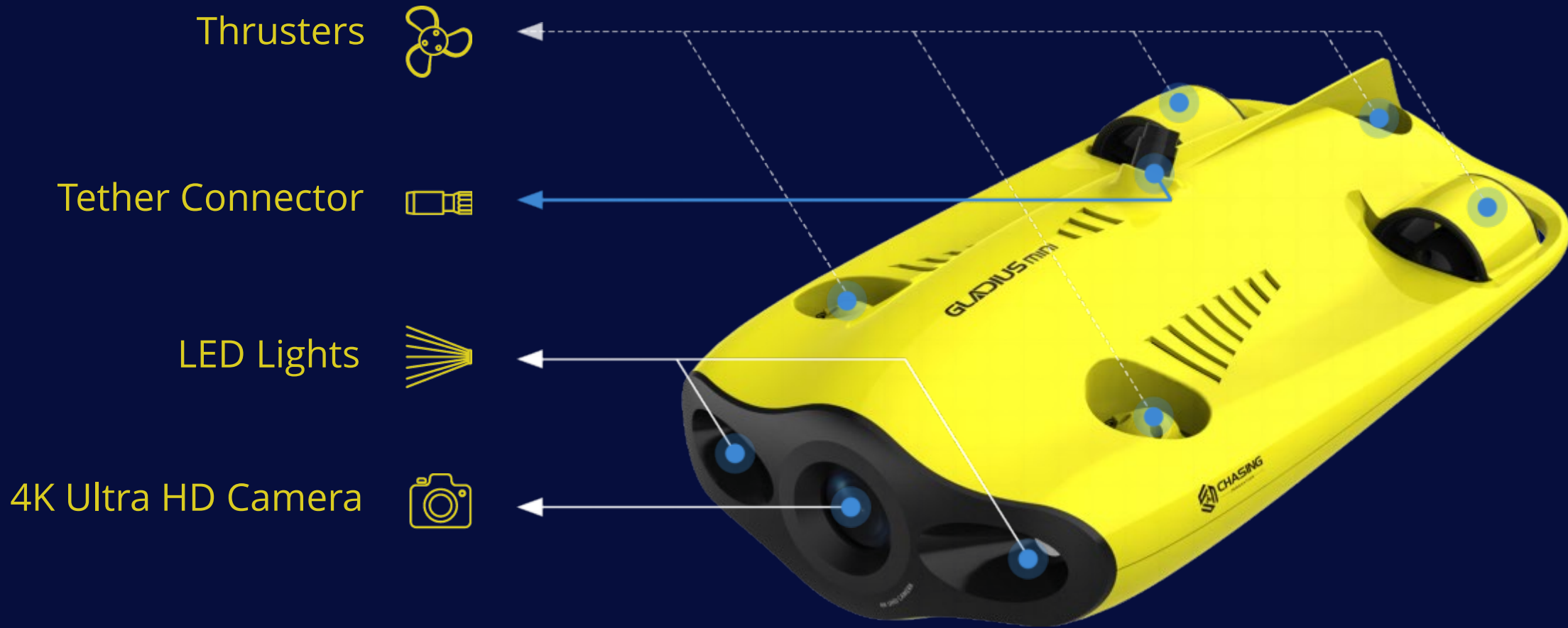
Thickness 5.4 in

Width 8.9 in
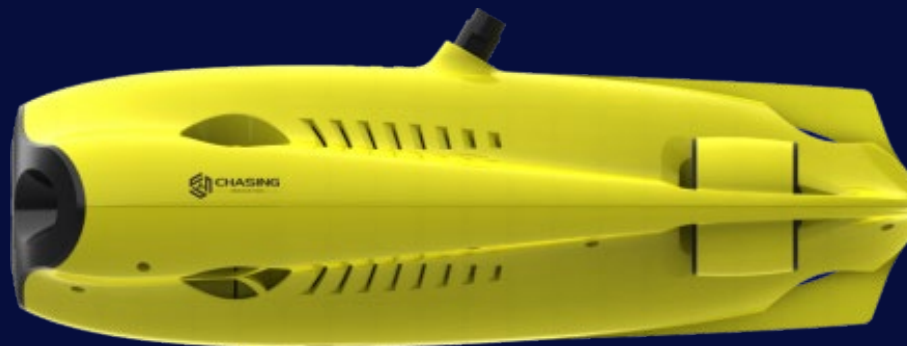
Length 15.2 in

# Main Components

ROV

Base Station

Winder &Tether

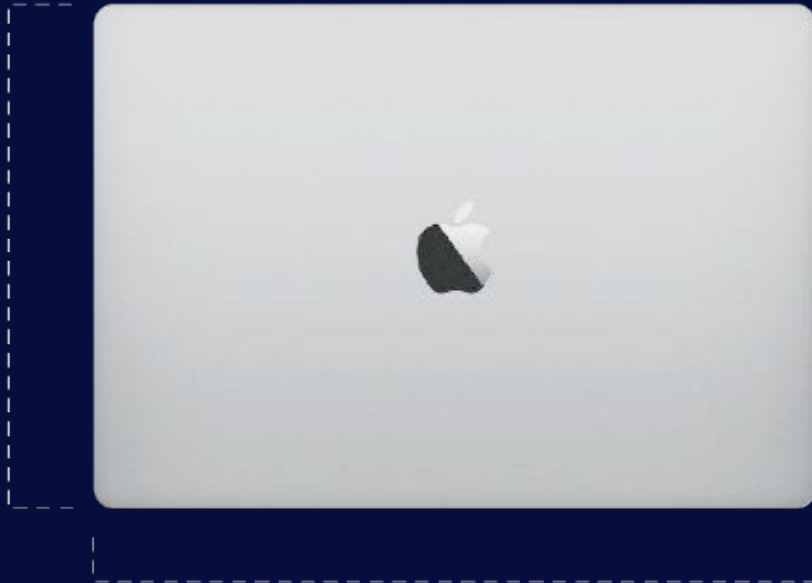Remote Controller

# Portable

One Backpack,
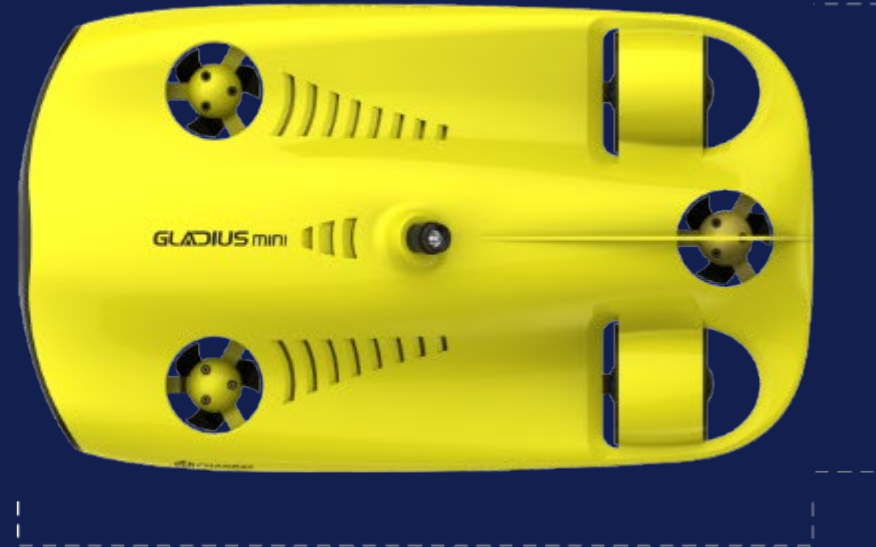Take your trip right away.

# MACBOOK PRO

15" screen

9.4 in

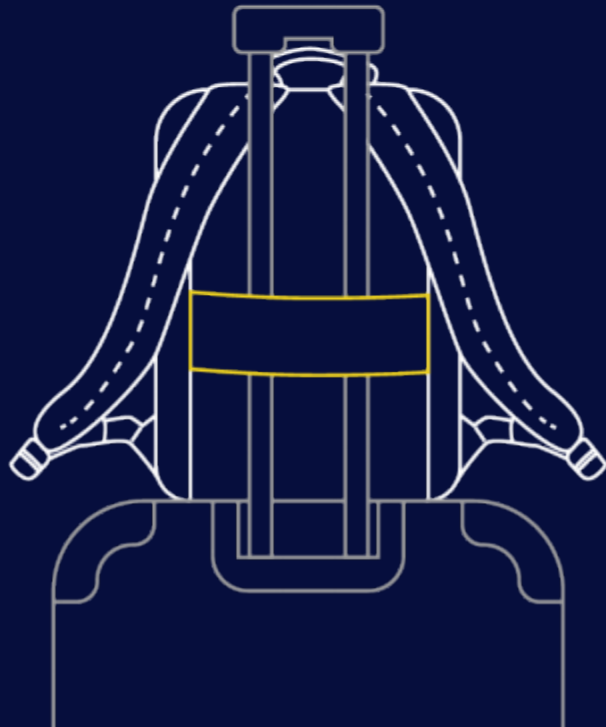13.7 in

# GLADIUS MINI

8.9 in

15 in

# Portable

Grab your backpack and start your adventure

- Even in complex environments.
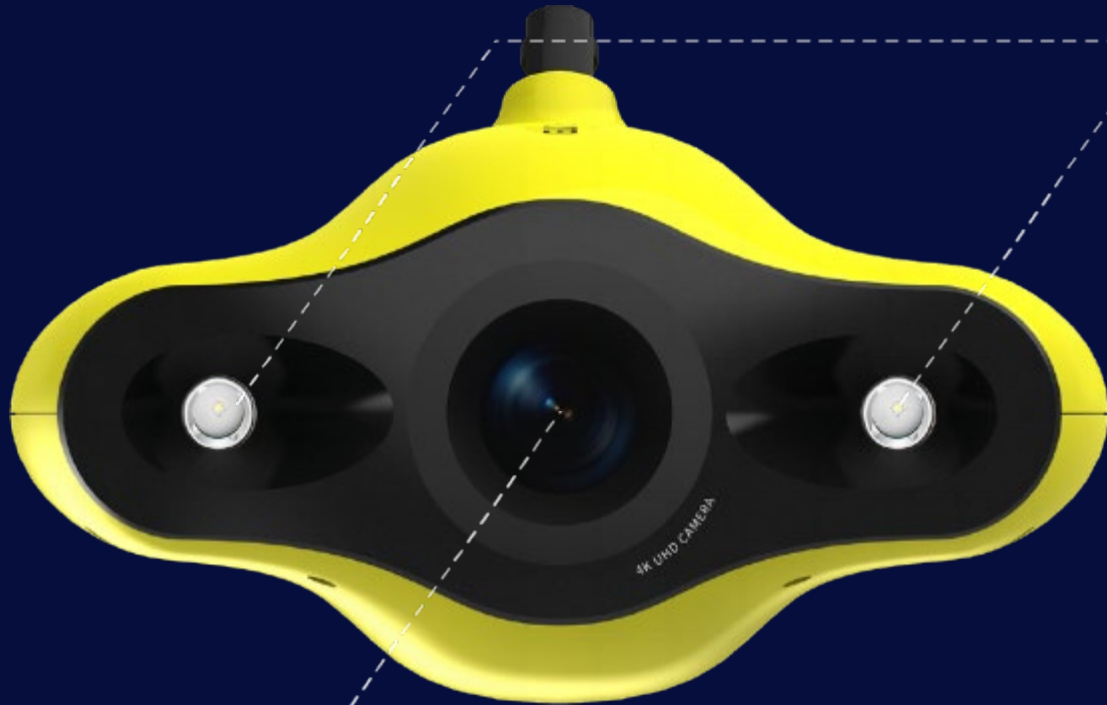- Reflective strips protect you in the dark .

Weight: <5.5lbs

# 4K UHD Photography

Illuminate the underwater world.

## LED Lights

Brightness: 1200 lumens  (Adjustable)
Color Temperature ： 4500K
CRI: 80
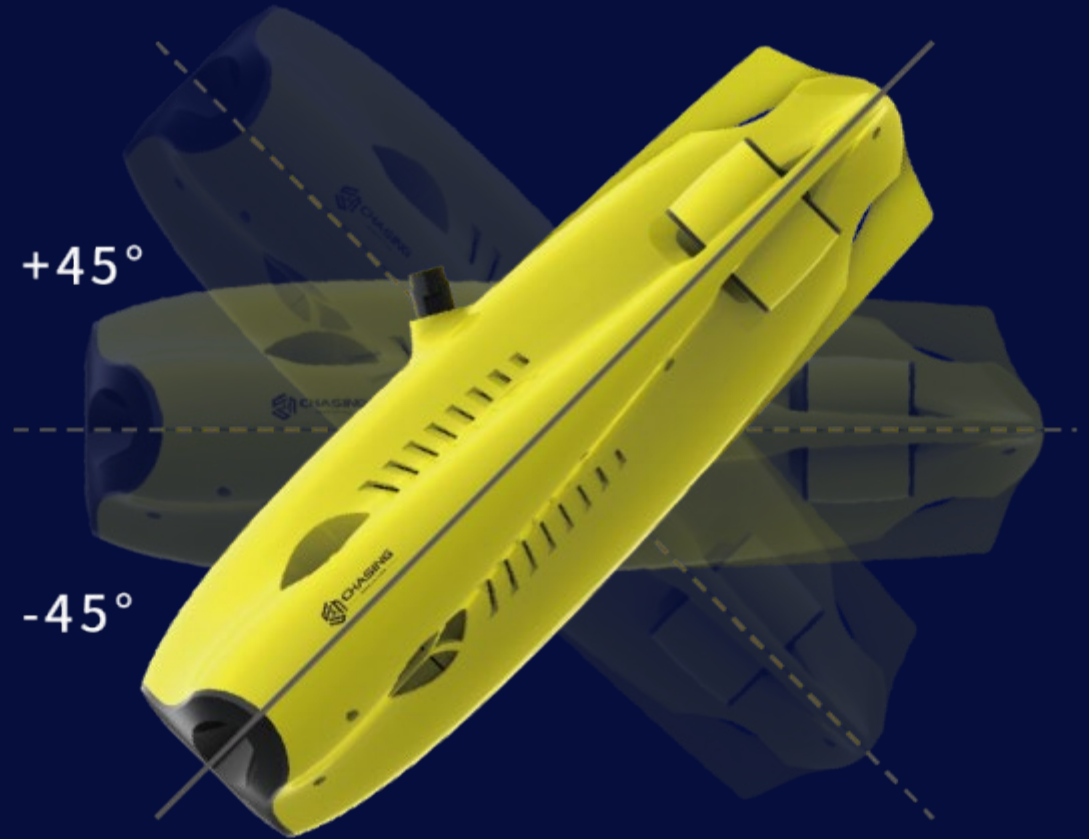
## 4K UHD Camera

Video Resolution: 3840*2160 30FPS
Photo Pixel: 12M
Lens: F2.8   FOV=95°

# ±45° Adjustable Tilt-Lock Mode

The drone's pitching angle can be adjusted by ±45° .

while can move forward or backward in Tilt-Lock Mod.

+45°

-45°
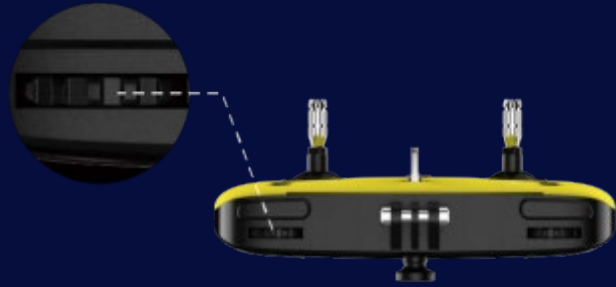
# Depth-Lock Mode

The Depth-Lock mode can be set by One-Button on the controller.
The drone can hover at a fixed depth in the water or is able to move
vertically in this mode.
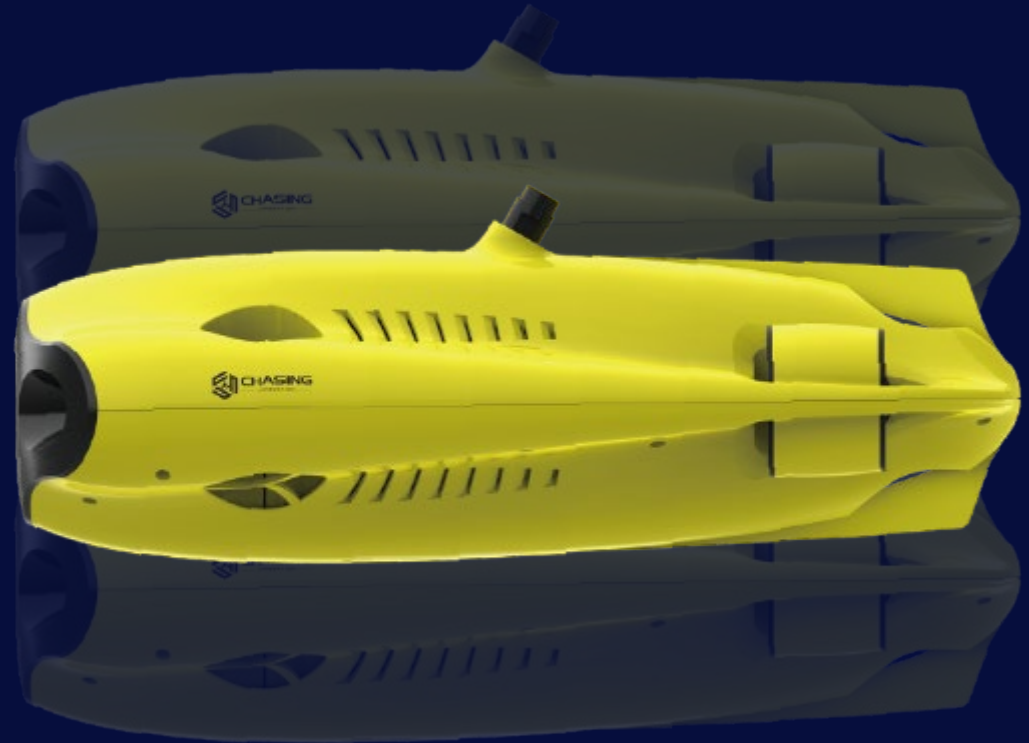
# Real-time Share

Show your underwater adventures to everyone.

# Live Stream Online

Let the whole world see your underwater adventure in real-time.
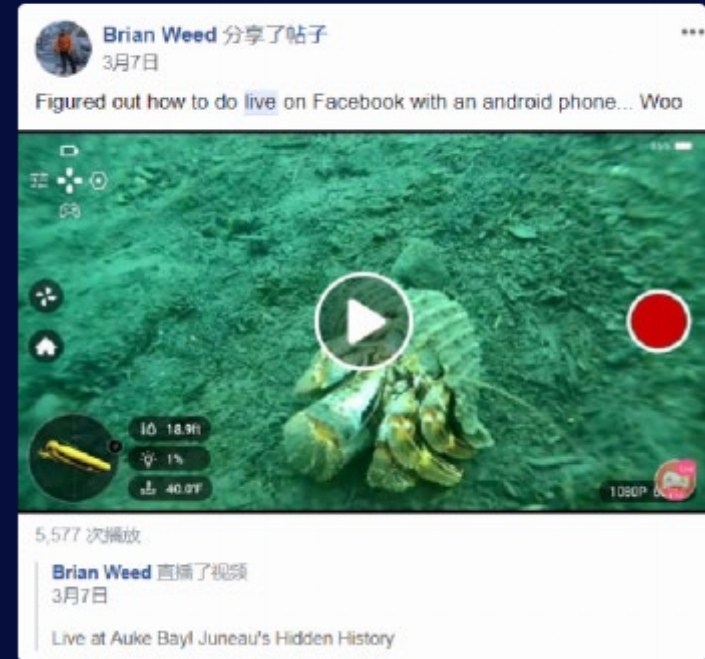
Share on a Big Screen

HDMI
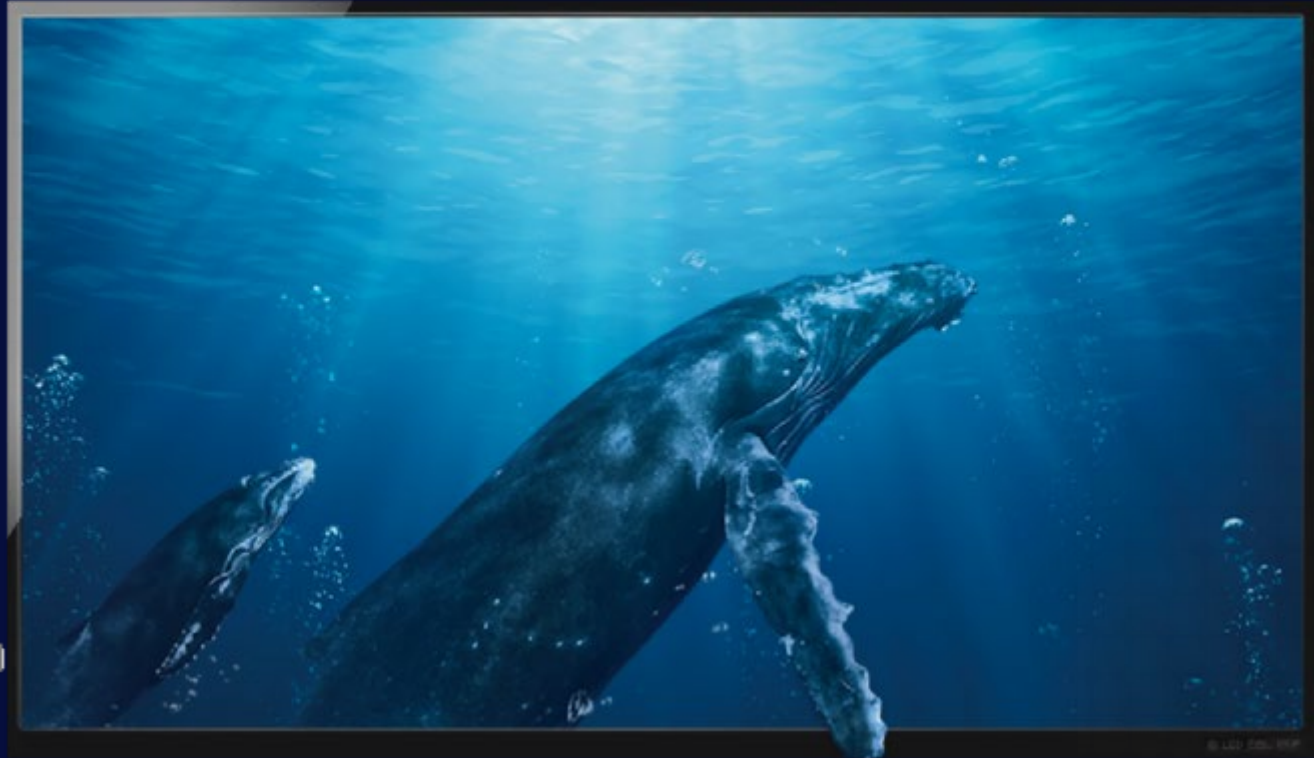
# Share on Multiple Devices

Be able to support Max. three smartphones or tablets wirelessly connect to drone at same time.
One as master device, and other two as slave devices (watch only).
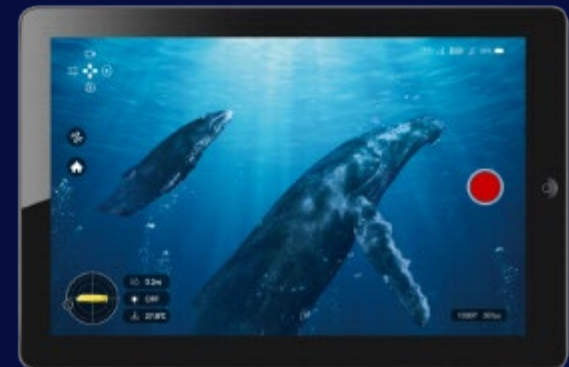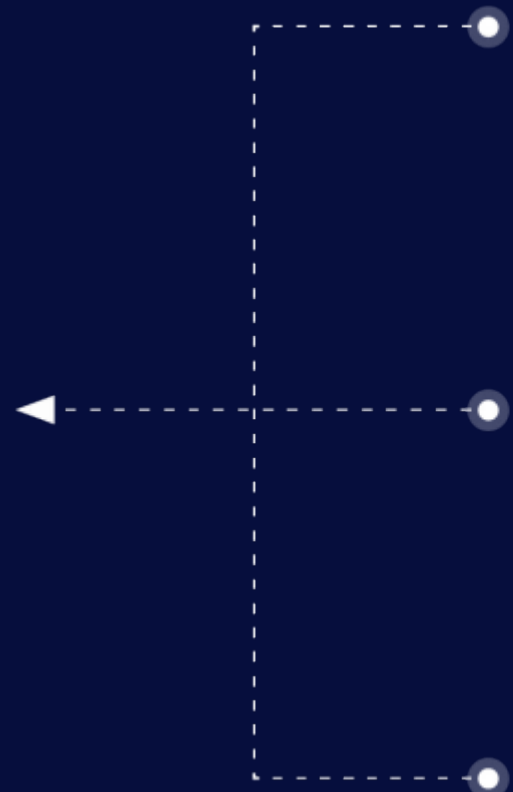
# Real-time Share

Quickly share the highlights from the deep sea.
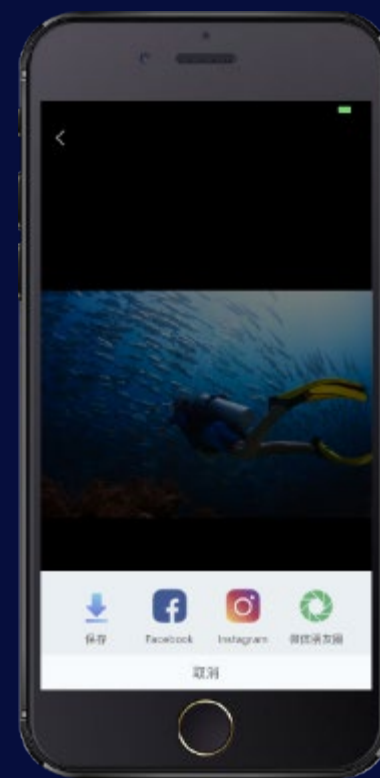
# Explore

More Underwater Unknown

# Dive to 330ft

Dive deeper, More adventure.



165ft Tether (Default)



100m Depth Test

1,750次观看

Gladius Submersible Drone
2017年9月26日发布

Gladius submersible drone can dive up to 100 meters.
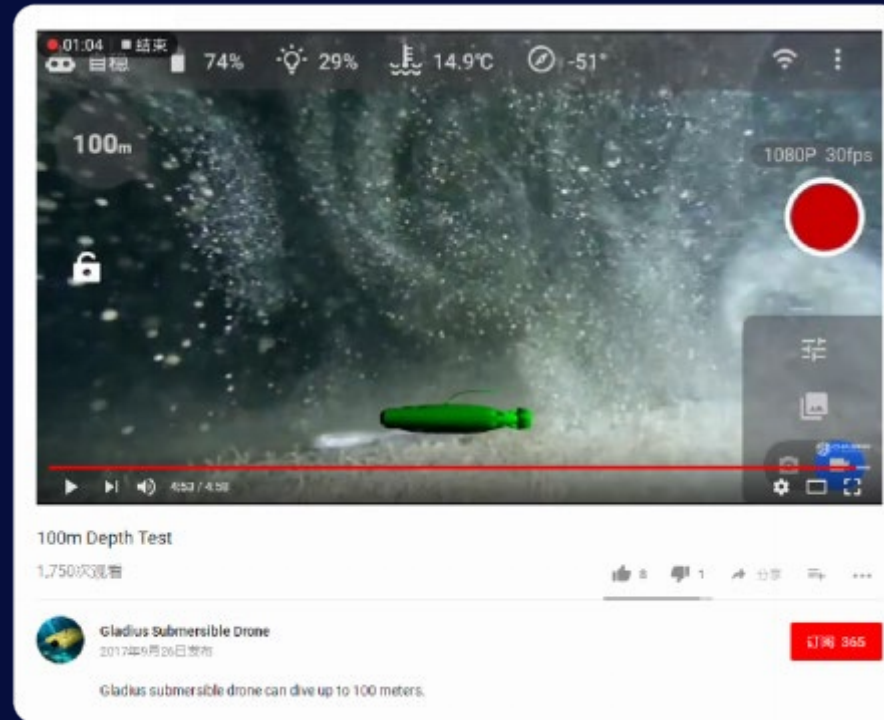
Click to see full video

# Replaceable Tether

Double connectors  Default 165ft.

Allow users to change the tether and extend the cruise range and explore more of the unknown. (Optional 330ft or 660ft tether)
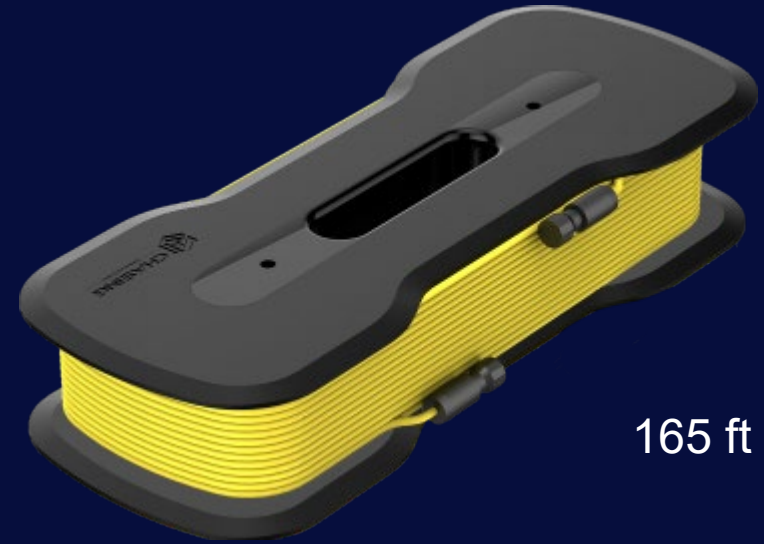
165 ft
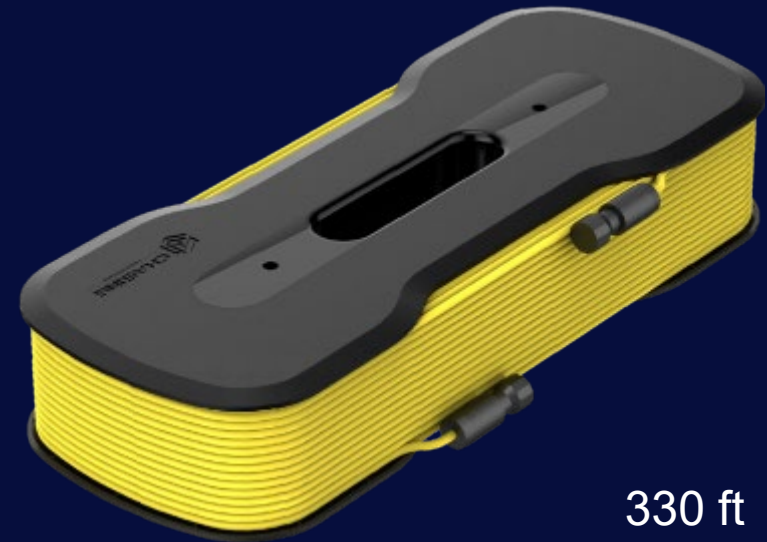
330 ft

# Great User Experience

GLADIUS MINI is fun and easy to use.

# Game-like Controller

Support 5inch phones to 10.5inch tablets, compatible with IOS and Android system.

iPhone   Android

# VR Immersive Experience

# Small Size, Long Battery Life
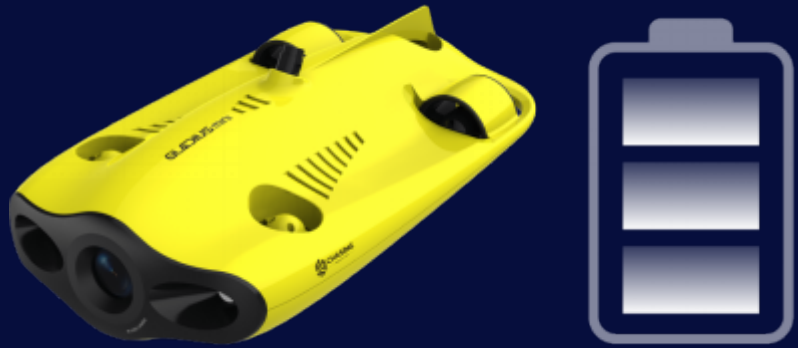
Charge 1.5hr
2hrs of use
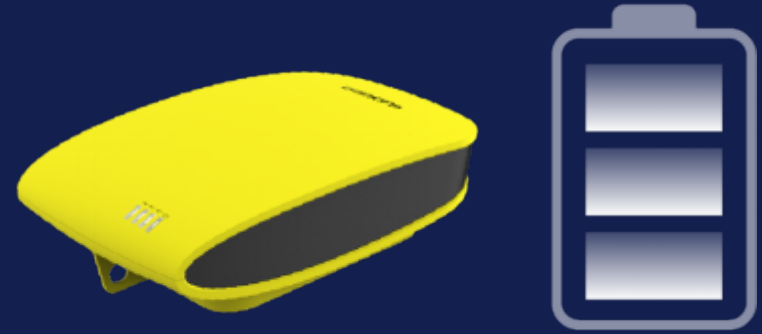
Charge 1.5hr
6hrs of use

# Removable TF Card, Easy to Download.

TF card interface allow user to insert their TF card to download the photos and videos.

# Application For Consumers



## 【 Dive Photography】

It can record the whole diving activities in high definition video, help the diving center to find the diving spot, and shoot teaching video, etc.

## 【Island Tourism】

Enjoy a sunny beach with your traveling companions, explore the ocean floor without diving, and enjoy exploring and sharing the underwater world.

## 【Yacht And Fishing】

Yacht out to sea entertainment, looking for and observing underwater schools of fish, help players accurately hunt.

# Application For Businesses

Underwater drones have huge demand and opportunities in the government and enterprise markets, including aquaculture monitoring. The application of hull dock inspection, reservoir dam inspection, municipal pipeline and pier inspection.

**B**

## Aquaculture

China's fishing industry is huge, with data showing that there are 32,000aquaculture farms across the country, covering 10 million hectares, while the global area is over 60 million hectares.Underwater robot GLADIUS MINI can replace the diver to realize real-time mobile monitoring of water quality and fish cage.Operators can operate on land, which can greatly
reduce labor costs and makeaquaculture monitoring more convenient and intelligent.

## Hull Quay Cruise

There are more than 300,000 large vessels and hundreds of port terminals around the world, and ships in and out of the ports need to be cleaned and inspected regularly to improve fuel efficiency and reduce safety hazards.
Underwater robot GLADIUS MINI can assist the ship cleaning, shoot and inspect before and after cleaning, and also conduct inspection on the wharf, to minimize the safety risks and escort ships to travel safely.

## Reservoir dam, municipal pipeline & bridge pier inspection

Reservoir DAMS, municipal pipes and piers which are difficult for maintenance personnel to reach affect the safety of water conservancy projects, urban sewage discharge and bridge traffic.Underwater robot GLADIUS MINI can replace divers to conduct underwater inspection of DAMS, pipelines and bridge piers, avoid blind excavation and construction, save manpower and time, and ensure the safe operation of municipal facilities and water conservancy facilities.

# Datasheet

## ■ ROV

| | |
|---|---|
| Size | 385x226x138mm |
| Battery Capacity | 55.5Wh (5000mAh) |
| Weight | <2.5KG |
| Buoyancy | -10g~10g |
| Operating Temperature | -10°C~60°C |
| Maximum Depth | 100m |
| Maximum Speed | 4Kn (2m/s) |
| Maximum Rise/Fall Speed | 2Kn(1m/s) |
| Maximum Flow Resistance | 4Kn (2m/s) |
| Battery Life | 2h(go forward at L speed advances in the fixed depth mode) |
| Battery Cycle | >300 times |

## ■ 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 | 151x107x45mm |
| Wireless WIFI Distance | ≤10m |

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

## ■ Sensor

| | |
|---|---|
| IMU | Three-axis gyroscope/acceleration/compass |
| Depth Sensor | +/- 0.5m |
| Temperature Sensor | +/- 2°C |

## ■ 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:1920x1080 30Fps |
| | FHD:1920x1080 60Fps |
| | FHD:1920x1080 120Fps |
| | UHD:3840x2160(4K) 30fps |
| Video Maximum Stream | 60M |
| Video Type | MP4 |
| SD Card Memory | 64G |

## ■ 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.

## ■ Winder & Tether

| | |
|---|---|
| Weight | 1.2kg(50m)/1.8kg(100m) |
| Tether | 50m/100m |

## ■ 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 | 2x1200LM |
| Color Temperature | 4000K-5000K |
| CRI | 80 |
| Maximum Power | 2x10W |
| Dimming | Manually adjustable |

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