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SEASAM HULLSCAN



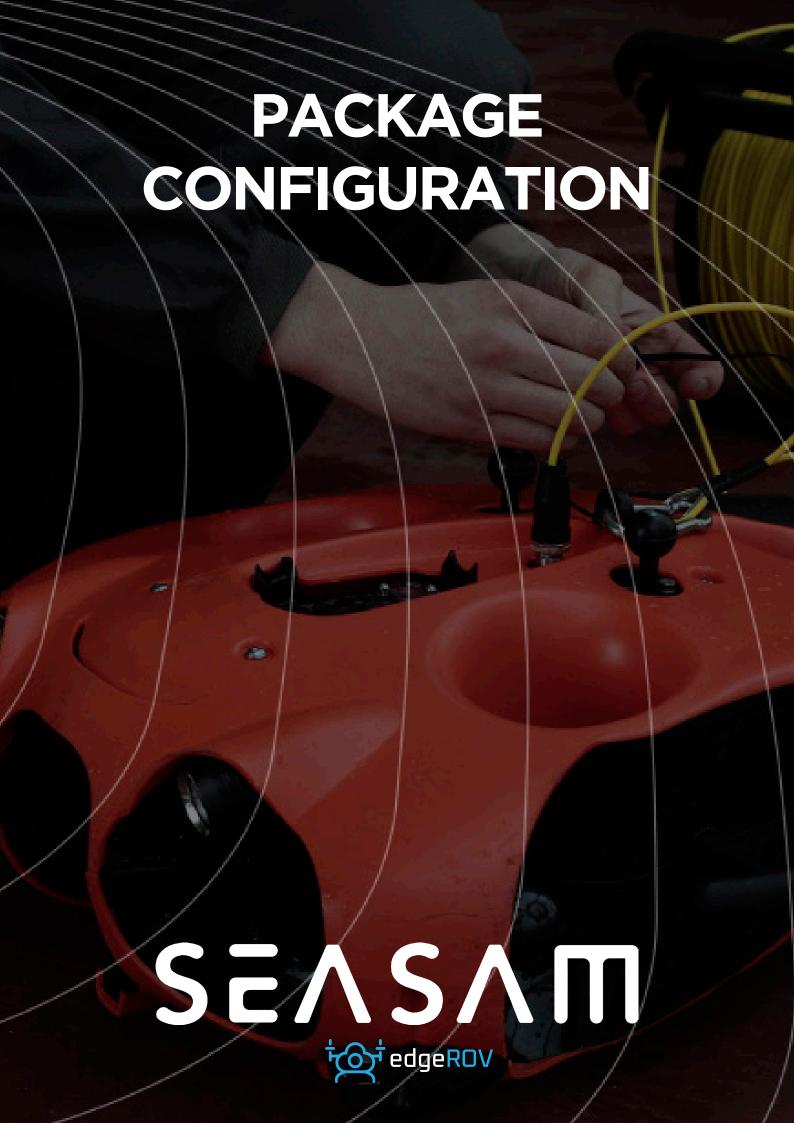
CHOOSE YOUR ROV PACKAGE



edgeROV

SEASAII

by 🚳 notilo plus



CHOOSE AND CONFIGURE YOUR ROV

The **Seasam ecosystem** is highly modular. First, build a functional pack by making a selection for each of the following 5 core components (details in the next pages).

1 Connector type	
Standard	
Subconn premium connector	
2 Surface control for ROV mode	
100m Wi-Fi reel	
200m Wi-Fi reel	
Seasam Navigator	
Seasam Navigator with underwater location	
3 Batteries & chargers	
Pack of 3 M-size batteries	
Pack of 3 L-size batteries	
1 XL-size battery	
4 Control unit	
11" tablet Samsung Galaxy Tab Active Pro	
11" rugged tablet Getac F110	
14" rugged tablet Getac A140	
5 Notilo Cloud subscription	
Notilo Cloud, Free version	
Notilo Cloud, Standard version	
Notilo Cloud, Ships version	

After selecting the 5 core components above, you can add 3rd party sensors and other options appearing later in the catalogue to perfect your package.

SEASAM **DRONE**



The **Seasam Underwater Drone**™ base content comes with the following items :

Click here to watch video on Seasam Autonomous Drone Basic Seasam Drone

Towel and flexible pocket

Waterproofing Kit

Pair of long side handles

Battery compartment opening tool

Key ring

Soft pouch

Seasam Control[™] app and free updates

DOWNLOAD THE PRODUCT SHEET



Ref. SEASAM-00



SEASAM HULLSCAN

Click here to watch video on Seasam HullScan Drone





The **Seasam HullScan™** base content comes with the following items :

Seasam HullScan Drone

DVL

Waterproofing Kit

Towel and flexible pocket

Battery compartment opening tool

Key ring

Soft pouch

Seasam Control[™] app and free updates

DOWNLOAD THE PRODUCT SHEET



Ref. SEASAM-00H





This standard connector is screwed and unscrewed to the drone. The contact is waterproof and low-maintenance.



SUBCONN CONNECTOR UPGRADE

Upgrade your Seasam connector (drone & reel) to the industry-leading Subconn tether connector.

- Easy and secure connection
- Robustness and hydrodynamic profile
- Can be connected and disconnected underwater.





ROV CONNECTIVITY PICK ONE OPTION



100M TETHER AND WIFI REEL

This 100m tether reel connects to the **Seasam Drone™** for R.O.V. mode usage.

Includes a WiFi beacon for wireless connection to the control unit. The tether cable is marked every meter.

The tether reel will be provided with the same connector as per chosen from the previous page.

Includes a cable spool physical brake.

Cable length	(m)	100
Dimensions	(cm)	40 x 40 x30
Charging time	(hrs)	6
Autonomy	(hrs)	8



Ref. OMBIL-100



200M TETHER AND WIFI REEL

This 200m tether reel connects to the **Seasam Drone™** for R.O.V. mode usage.

Includes a WiFi beacon for wireless connection to the control unit. The tether cable is marked every meter.

Includes a cable spool physical brake and cable guide for a clean reeling.

Cable length	(m)	200
Dimensions	(cm)	40 x 40 x30
Charging time	(hrs)	6
Autonomy	(hrs)	8



Ref. OMBIL-200



SEASAM NAVIGATOR

Seasam Navigator uses GPS positionning. When connected to the Seasam drone, it acts as a longrange relay.

The live, geolocated position of the **Seasam Navigator** is available live in the Control app. Drop location pins using the GPS location of Navigator visible in Seasam Control (location accuracy at surface: ~1m).

Includes:

- Seasam Navigator
- Tethered connection between Navigator & Drone (one custom length between 1m - 100m, to choose at the time of the order)
- Ground station
- Medium hardcase



Equipped with 3 propellers, Navigator will also be pilotable independently, navigate to waypoint autonomously and more features to come through software update...

Maximal nominal speed	(m/s)	1,5
Number of thruster		3
Current resistance	(m/s)	1



Cartography view in Seasam Control App showing





Seasam Navigator

Ground station





Hardcase

CLICK HERE TO WATCH THE PRODUCT VIDEO

Tethered connection

Ref. NAVOO1-MOT



edgeROV



SEASAM NAVIGATOR WITH UNDERWATER LOCATION

The USBL technology provides the location of the Seasam Drone relative to the Seasam Navigator. Therefore, the actual position of the Seasam Drone underwater is more accurately determined.

The location pack consists of a USBL transmitter to be mounted on the Seasam Drone, and a receiver mounted on a pole under the Seasam Navigator. System calibration is performed through Seasam Control App.



Positioning precision of the drone relative to the Navigator

(%)

10% distance drone - navigator



Cartography view in Seasam Control App showing both Seasam drone's and Seasam Navigator's position.

DOWNLOAD PRODUCT SHEET

Ref. NAVOO1-MOT-USBL



RTK INTEGRATION OPTION

The RTK correction leads to better **precision** and relay of **localisation**. RTK service is country-dependent.

Please contact us for more information.

Navigator GPS precision	(cm)	2
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RTKCOR-001



BATTERIES INITIAL PACK PICK ONE OPTION

PACK OF 3 M BATTERIES 6600 MAH

Standard Lithium-Ion battery - 6600 mAh

Recommended for light underwater operations in standard water conditions.

Power	(Wh)	95
Battery type		Li-lon
Autonomy	(hrs)	1,5
Charging	(hrs)	2



Ref. ABATT-003



PACK OF 3 L BATTERIES

10400 MAH

Large Lithium-Ion battery. Includes buoyancy adjusters.

Recommended for inspections in a current of more than 0.5 knot.

International transport restrictions may apply, contact us.

Power	(Wh)	149
Battery type		Li-lon
Autonomy	(hrs)	2
Charging	(hrs)	4



Ref. ABATT-03L



XL BATTERY

28800 MAH

Extra Large capacity Lithium-Ion battery - 28800 mAh

Includes extended battery compartment, and buoyancy adjusters.

Recommended for applications involving external sensors, or for missions requiring longer uninterrupted inspections.

International transport restrictions may apply, contact us.

Power	(Wh)	414
Battery type		Li-lon
Autonomy	(hrs)	4
Charging	(hrs)	6



Ref. ABATT-1XL-COMP







SURFACE CONTROL UNIT

PICK ONE OPTION



STANDARD CONTROL UNIT

10.1 INCHES

Standard control unit **Samsung Tab Active Pro** to be used with your **Seasam Drone**TM.

Comes with a standard ROV controller, a protective case and pilot harness, a transport case, sun visor & **Seasam** Control™ preinstalled.



Screen size	(in)	10.1, 1920 x 1200
Rating		IP68
Battery capacity	(mAh)	7600
Max brightness	(nits)	601
OS		Android
Option		4G

Ref. CONTR-001

4G connectivity option available Ref. **CONTR-14G**



RUGGED CONTROL UNIT

11.6 INCHES

Rugged control unit **GETAC F110** for usage with **Seasam Drone**TM.

For heavy duty usage - Comes with a standard ROV controller, a protective case and pilot harness, a transport case, sun visor & **Seasam Control**™ preinstalled.







Screen size	(in)	11,6
Screen type		Water resistant
Rating		MIL-STD-461 & MIL-STD- 810G & IP65
Battery capacity	(mAh)	2*2160
OS		Windows 10
Max brightness	(nits)	1000
Options available		RFID, fingerprint scanner, ATEX/IECEx certifications
Option		4G



Ref. CONTR-002



RUGGED CONTROL UNIT 14 INCHES

Rugged control unit **GETAC A140 G2**, multipoint capacitive 14" screen..

Comes with a standard ROV controller, a protective case and pilot harness, a transport case, sun visor & **Seasam Control**TM preinstalled.









Screen size	(in)	14" (1 366 x 768)
Rating		MIL-STD-810H & IP65
Battery capacity	(mAh)	10,8 V, 3 220 mAh
Max brightness	(nits)	1000
Option available		RFID, fingerprint scanner, ATEX/IECExx certifications
OS		Windows 10 Pro
Option		4G





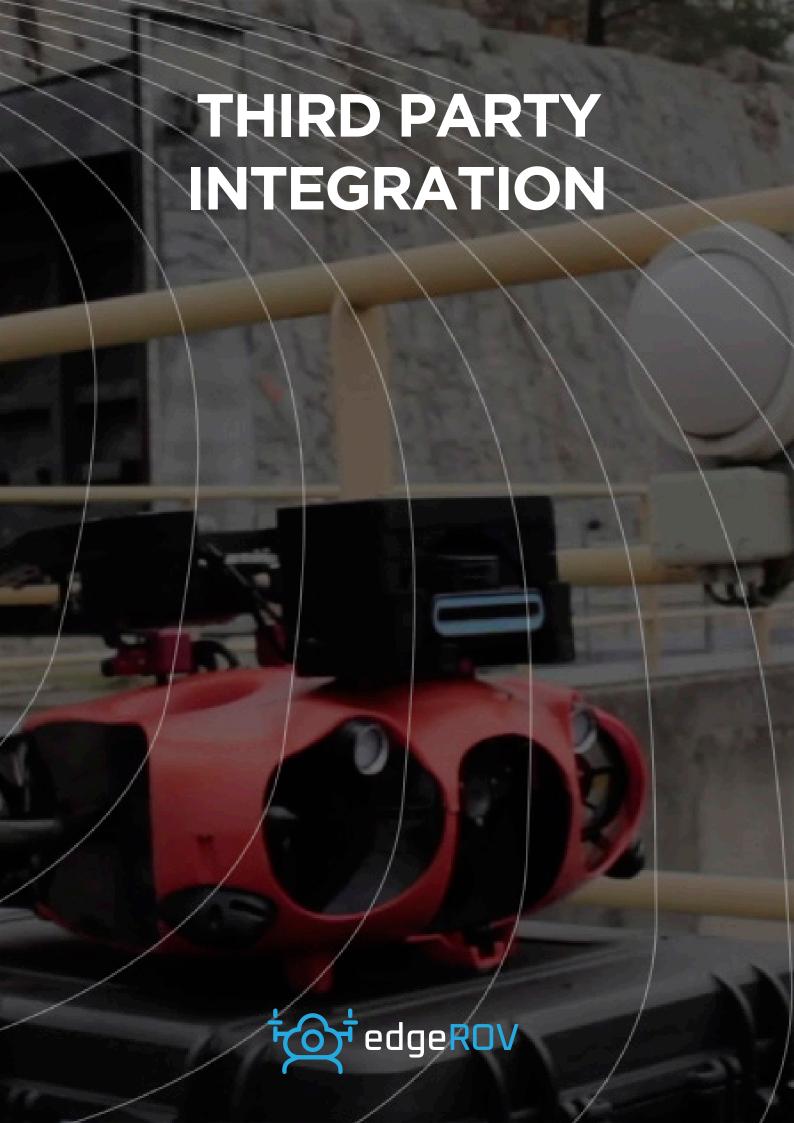
Developed in partnership with major players in the maritime sector, Notilo Cloud is an digital data storage, processing and analysis platform for your underwater data. It allow you to easily **edit ROV reports** and **centralize all your data in a secure place, accessible anytime from anywhere**.

The **interoperability** of this new platform allows you to use all the data you collect, regardless of its origin. Even if you are **using third party sensors or R.O.V.**



CLOUD PLANS & FEATURES		
NOTILO CLOUD FREE	NOTILO CLOUD SHIPS	NOTILO CLOUD FLEET
Creation of total inspection video including time & depth	Multi-users, multi-mission inspection management	Multi-vessel, multi-operations report management
Download & sharing of inspection video	Video annotation & data timelines	Video annotation & data timelines Fleet hull definintion and organisation
10 missions / 20 dives 10 Go storage included	200 missions / 400 dives 1 To storage included	200 Go storage per vessel
3 users	10 users	20 users
	Simplified creation of reports	Simplified creation of reports
Click here to watch	Smart Reports generation, on demand (2 per year free) Automatically generated,	Operations report management per location / per vessel
video on Notilo Cloud	 including: Al biofouling score Painting defects count 	Smart Report aggregation and global tracking of evolution
	• Smart data filters	Dashboard customisation possibilities
	Notilo Cloud portal registration	Fleet-to-picture™ zoom (with Seasam Navigator)
		Notilo Cloud portal registration

LEARN MORE ABOUT NOTILO CLOUD





Add sonar vision to Seasam Control™ App by adding a multi-beam sonar to your Seasam setup.



M750d

Range Max	(m)	120 / 40
Frequency	(kHz)	From 750 to 1200
Update rate	(Hz)	40
Range Resolution	(mm)	4/2.5

Ref. CHWI-750

M1200d

Range Max	(m)	40 / 10
Frequency	(kHz)	From 1200 to 2100
Update rate	(Hz)	40
Range Resolution	(mm)	2.5/ 2.5

Ref. CHWI-1200



INTEGRATION OF WATERLINKED A50 DVL

Improve servoing accuracy & underwater location ability thanks to this compact yet powerful Doppler Velocity Log. The DVL is already integrated in the Hullscan package.



Ref. WATDVL-001





XYLEM EXO2S PROBE INTEGRATION

Multiparameter water quality sensor with 7 sensor ports (including a central wiper port), optional depth sensor, and battery compartment.

Sensor options available:

- Conductivity/Temperature (wiped and non-wiped)
- Dissolved Oxygen
- fDOM
- ISEs (Ammonium, Chloride, and Nitrate)
- pH (guarded and unguarded)
- pH & ORP (guarded and unguarded)
- Rhodamine
- Total Algae (Chlorophyll + Phycocyanin and Phycoerythrin)
- Turbidity

Operating Temperature	0	-5 to +50
Environmental support		Fresh, sea and polluted waters
Sample rate	(Hz)	4
Weight	(kg)	3.60





Ref. CHCTD-001



EXPLOCAM INTEGRATION

The **ExploCam** endoscopic camera is a secondary camera for the **Seasam Drone** that allows inspection behind grids or inside cavities. It is perfectly suitable for inspections of sea chests or scrubber discharges pipes.

The video feed from ExploCam is displayed in real time in Seasam Control App alongside Seasam drone main camera and can be synchronised to Notilo Cloud.





Ref. EXPLO-001

CLICK HERE TO WATCH THE PRODUCT VIDEO

DOWNLOAD THE PRODUCT SHEET





ORPHIE CAMERA INTEGRATION

The Orphie Camera™ dramatically improves underwater vision.

With this integration, it will be much easier to see features in murky waters.

A camera that, with the help of innovative image processing algorithms, provides real-time video image quality unmatched in the underwater camera industry.

Requires Seasam Sensor Hub (see page 21)



Ref. ORPHI-001



CLICK HERE TO WATCH THE TEASER VIDEO

DOWNLOAD THE PRODUCT SHEET



SB10 LASER SCALER INTEGRATION

The Sea Beam™ Underwater Laser Scaler gives a reference to estimate the size of points of interests. It adds perspective when viewing underwater objects like fishes, reefs, structures, cracks, bolts, locks, corrosion patches...

The SB20 Sea Beam™ is a dualpowered system using two laser beams spaced 75mm that will shine either two dots or two lines onto a underwater surface or feature.



Ref. LASSB-010



SUBSEA GRIPPER INTEGRATION

Use this attachment to retrieve objects, attach retrieval lines or release a hooked lanyard. The gripper can be opened/close from the Seasam Control App.



Supply Voltage	(volts)	9/18
Grip Force	(N)	97
Time to Open/Close	(sec)	1.6
Push-rod Axial Load Rating	(kg)	2.5

Ref. GRIPR-001



INTEGRATION OF CYGNUS ULTRASOUND THICKNESS GAUGE

Get valuable information on thickness of your metal underwater equipment. Requires the Seasam Sensor Hub as well as a Cygnus gauge.



Ref. CHTKG-001



SENSORS STRUCTURE

Clip this external structure on top of Seasam drone to carry your sensor/ ancillary/payload of choice underwater: additional cameras, probes, lights, etc...



Ref. STRUC-001





The **Seasam Sensor Hub™** allows you to plug additional, third party sensors to your Seasam Drone™.

The multiple push-pull connectors allows for up to **3 sensors to be plugged and interfaced** with Seasam Drone & Seasam Control. The sensors ports are:

- USB 2.0 x 1
- Ethernet x 1
- Serial (RS 232, RS 485, IO) x 1

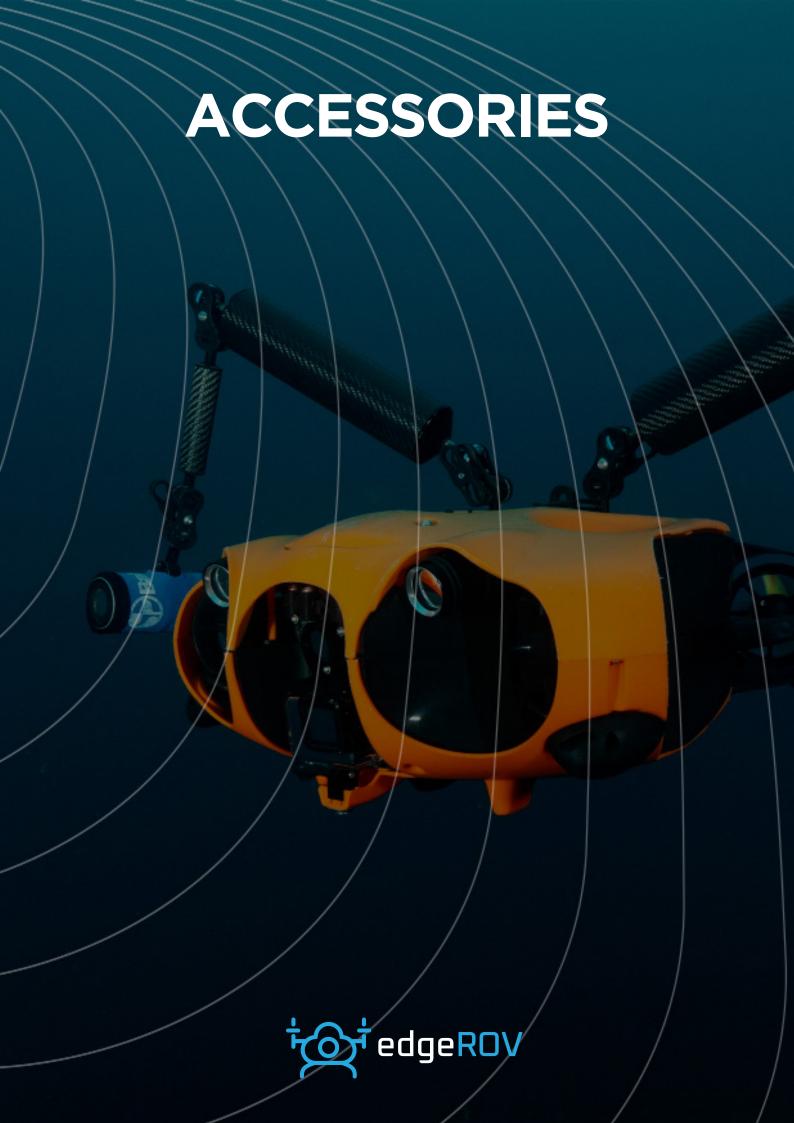
Sensors must be able to receive 24V power input. A total of up to 40W can be distributed and shared by the 3 sensors ports for simultaneous use.

Seasam Sensor Hub™ comes with a physical support structure (see STRUC-001 on previous page) for easy third party sensor installation. Simple to install and to remove for your drone.

For a planned use of multiple sensors simultaneously, please contact our team.

Number of sensor inputs	3
Number of external power input	1
Compatible connectors	Fischer connectors

Ref. SENSHUB-001







UNDERWATER REMOTE CONTROL

ENABLES UNDERWATER TARGET TRACKING

Using its underwater remote control, the Seasam drone is able track and follow targets underwater while recording them.

Autonomous mode: "Thanks to its multiple diving profiles, such as Works or Instructor, the remote enables the drone to use different pre-programmed movement scenarios: follow, lead, 360°, ... "

Supervised mode:" Combined with a Wifi-reel or Seasam Navigator (see pages 8-10), the Supervised mode allows realtime supervision of a moving tracket equipped with the Underwater Remote Control, without human intervention.

The Surface operator has control and can switch to ROV mode anytime for manual piloting. This feature is particularly useful when working with professionnal divers for remote supervision and realtime communication to the surface.



Only compatible with Seasam drone.

Depth rating	(m)	100
Charge time	(min)	120
Autonomy	(min)	120
Length of emission cable	(cm)	80
Max. signal reach	(m)	70
Max. distance from diver	(m)	20
Signal type		Acoustic
Pre-programmed scenarios		8

Ref. APING-001



CLICK HERE TO WATCH
THE PRODUCT VIDEO







SOFTCASE FOR SEASAM DRONE

Softcase, custom-made for Seasam by Dimatex in a mold-proof material.

It can be carried as a backpack or can be pulled as a wheeled bag.

- Control unit
- Long handles
- Underwater remote control
- Sealing Kit
- Maintenance Kit

Not recommended for air travel.



Ref. AHRDC-002



LARGE SOFTCASE FOR ACCESSORIES

Mold and waterproof soft case designed to store all drone related accessories. Can be pulled as a rolling luggage.



Ref. NAVSOF-001



SOFTCASES PACKAGE

Softcase for transporting Seasam & its smaller accessories + Waterproof duffle bag for additional accessories.











HARDCASE FOR SEASAM DRONE

Hardcase for transporting Seasam & its accessories:

- Up to 3 batteries
- Long handles
- Underwater remote control
- Sealing Kit
- Maintenance Kit
- Notilo Plus towel

Comes with custom-cut foam and an accessory container.

Can be locked with padlocks.

Case fit for air travel (odd-size check-in).

Dimensions	(cm)	81 x 52,5 x 42
Weight	(kg)	10
Lockable		Yes



Ref. AHRDC-001



HARDCASES PACK FOR STORAGE

Store your SEASAM and its accessories securely with this 2-in-1 hardcase package (1 large size + 1 medium size).





Ref. AHRDC-003





ADDITIONAL M BATTERIES PACK OF 2

Standard Lithium-Ion - 6600 mAh Autonomy: Up to 1h30 in optimal conditions.

Recommended for light underwater operations in standard water conditions.

Power	(Wh)	95
Battery type		Li-lon
Autonomy	(hrs)	1
Charging	(hrs)	2



Ref. ABATT-001



ADDITIONAL L BATTERIES PACK OF 2

Large Lithium-Ion batteries. Autonomy: Up to 2h30 in optimal conditions.

Recommended for inspections with 0.5 knots current strengthand up.

International transport restrictions apply, contact us.

Power	(Wh)	149
Battery type		Li-lon
Autonomy	(hrs)	2
Charging	(hrs)	4





Ref. ABATT-001L





Extra Large Lithium-Ion battery - 28800 mAh

Autonomy: Up to 4h30 in optimal conditions.

Recommended for extensive underwater operations.

Power	(Wh)	414
Battery type		Li-lon
Autonomy	(hrs)	6
Charging	(hrs)	6



Ref. **ABATT-OXL**



ADDITIONAL XL BATTERY & COMPARTMENT

Extra Large Lithium-Ion battery - 28800 mAh *Includes extended battery compartment, and buoyancy adapter.*

Autonomy: Up to 4h30 in optimal conditions.

Recommended for extensive underwater operations.

Power	(Wh)	414
Battery type		Li-lon
Autonomy	(hrs)	6
Charging	(hrs)	6





Ref. ABATT-1XL-COMP



ADDITIONAL BATTERY CHARGER

Used to charge M-, L- & XL-Series batteries. Lithium Ion batteries only.

Input : AC100-240 V Output : DC16.8V-2.8A



Ref. ACHRG-001





Used to charge M-, L- & XL-Series batteries. Lithium Ion batteries only.

Input : AC220-240 V Output : DC16.8V-5A





Premium battery compartment opening tool: metal, anti-slip handles, aluminum alloy



Ref. **BATOPE-002**







ORION-II 10.000 photo & video diving light with variable lumen configuration. **90 CRI light quality**.

Mounted on flexible arms on the drone topside. Easy to set up. Includes two lamps.







Power	lm	10000, variable	
Beam angle	degrees	160	
Autonomy on battery		Max power : 60 mins.	
Weight of 1 lamp	g	900	

Ref. ORION-10000



See your control unit screen even in bright conditions, with this removable sun protector for our 11" control units.







The foldable and removable keyboard is compatible with the GETAC Rugged 11" control unit.





BATCH OF 3 PROPELLER PROTECTION CLIPS

With these **clips**, your vertical axis propellers are **protected** from the aspiration of small stones when **Seasam** navigates close to the bottom.

Note: protection clips diminish the speed performance of the covered propeller by approximatively 25%.



x3

Ref. PROTEC-001



BATCH OF 7 PROPELLER PROTECTION CLIPS

With these **clips**, your vertical axis propellers are **protected** from the aspiration of small stones when **Seasam** navigates close to the bottom.



 $\times 7$

Ref. PROTEC-002



SOFT POUCH

Waterproof soft case for battery protection and small accessories



Ref. SFTPCH-001



1:1 SCALE REPLICA

1:1 scale replica of Seasam drone, Seasam HullScan drone, or Seasam Navigator.

For exhibition purposes. Not functional.



Ref. DUMM-001



ORANGE COLORED HULL SET

Spare orange hull set for **Seasam Underwater Drone™**.



Ref. COLCAS-000



BLACK COLORED HULL SET

Spare black hull set for **Seasam** Underwater Drone™.



Ref. COLCAS-00M





Notilo Plus works with organisations of various sizes and capabilities, requiring different degrees of technical involvement and autonomy.

Discover below our support options to find the most suitable for your needs.

	STANDARD SUPPORT	SELF-MAINTENANCE	notilo care	
Online support	Office opening hours (CEST, 5/7)			
Priority hotline with live video assistance			✓	√
Maintenance check-up (yearly or every 200 hours)	On-demand		√ 1/year included	√ 1/year included
Self-maintenance training, e-book & videos		✓		
Replacement parts & toolbox		✓		
Yearly coverage for Parts & repair			1000€	3000€
Return shipment post-repair / maintenance			✓ Standard shipping	Express shipping
Courtesy drone (in case of blocking issue > 7 days)				√





Get access to articles, help and advices for getting the most of your Seasam.

Our support team will reply to your questions Monday to Friday, 9.00 to 5.00pm, AEDT - 1300 721 990

Most incoming requests we get are actually due to usage difficulties, and are sorted rapidly by consulting our user manuals or our online FAQ, but our team will stand by your side nonetheless: simply send us an email at support@edgerov.com.au describing your problem.

- User guides
- User tutorial videos
- Online FAQ
- Email support 8/5 AEDT
- Safety tips
- Documentation

Just like with any complex system, proper care, coupled with a regular maintenance schedule ensures your product lifespan is optimised. Therefore we recommend a check-up once a year or every 200 hours of operation.



LEVEL 1 MAINTENANCE & REPAIR TRAINING

Maintenance focused training (0.5 day in France at Notilo Plus site in Lyon or Marseille for up to 3 persons max)

Ref. TRAING-002

• SPARE PARTS AND MAINTENANCE KIT

A range of common sparts for your Seasam, for easy replacement by yourself or your nearest Service Center.

Kit contents	
Spare propeller	1
Spare hydrophone	1
Spare remote emitter	1
Sealing joints	3
Spare screws	16
Spare propeller blades	7
Silicon grease	1
Drone weights	2
Spare drone light	1



DRONE REPAIR TOOL KIT

With this repair tool kit and maintenance training, be ready to perform almost all replacement on your Seasam.

Kit contents
DRX T10 bit
DRX T25 bit
Т2
ver
wdriver
metric key
Resin & Resing gun

Advanced training mandatory required for self-maintenance (see next page)



Ref. REPAR-001