

The Leaders in Portable X-Ray Systems

Nautilus

The first underwater X-Ray system,
specifically designed for EOD operators

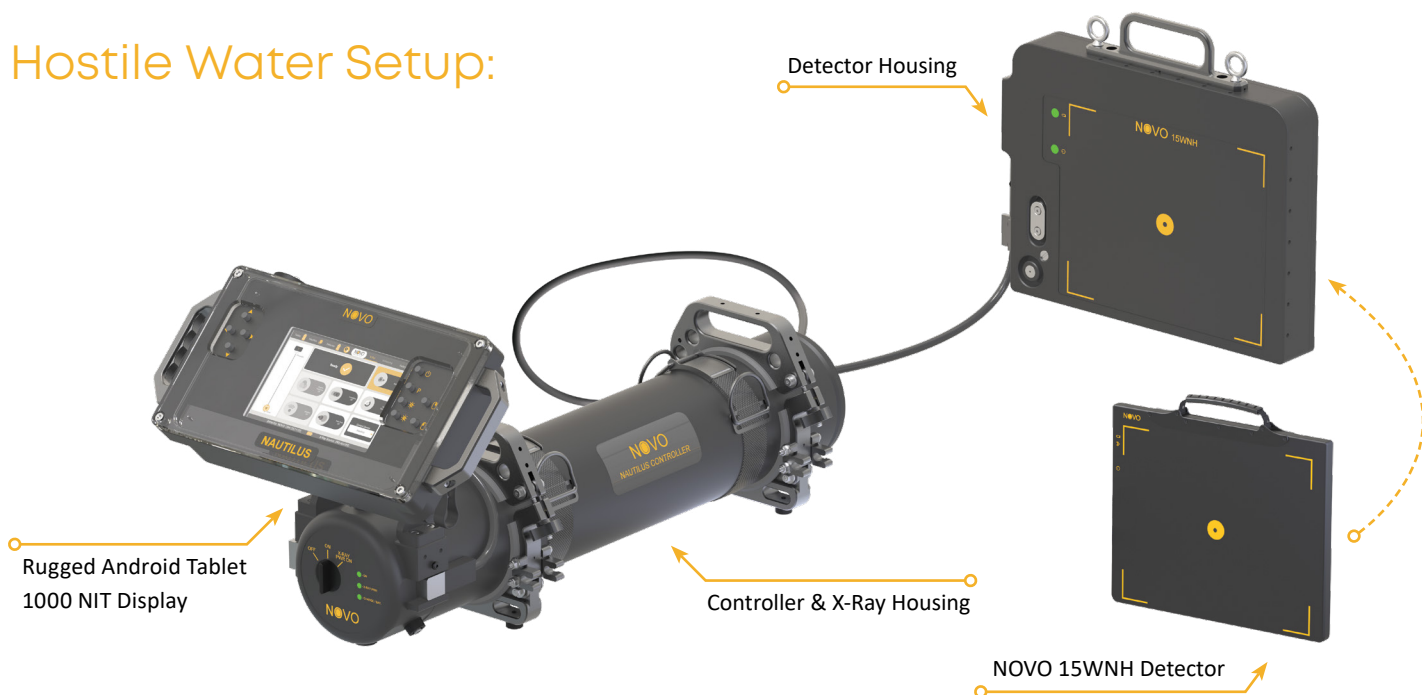


Diver-Held X-Ray System for Underwater Inspection
facing potential munitions hazards in a maritime environment

- Ultra-portable, held by a single diver
- Instant, High-resolution images
- Fully battery operated
- Maximum working depth: ~300 ft (100 meters)
- Operations setups for both hostile and friendly waters
- Improving safety and efficiency of EOD operations

System Overview

Hostile Water Setup:



Friendly Water Setup:



Component	Quantity	Weight in air	Buoyancy in seawater	Buoyancy in freshwater
Detector Housing	1	27.7 lbs. (12.6kg)**	14 lbs. NEG (6.4kg)**	14.4 lbs. NEG (6.5kg)**
Controller & X-ray Housing	1	45 lbs. (20.4kg)	11.4 lbs. NEG (5.1kg)	12.2 lbs. NEG (5.5kg)
Tablet under water	1	14.7 lbs. (6.7kg)	2.4 lbs. NEG (1.1kg)	2.7 lbs. NEG (1.2kg)

* All values are approximate (cables not included) and are subject to change

** All values refer to the NOVO 15WNH Detector

Potential Use

The NOVO Nautilus system is designed for underwater X-ray imaging and supports a variety critical security and inspection tasks.

- Examination of Ordnance
- Inspection of IEDs & Counter-Terrorism
- Infrastructure Protection
- Harbor & Port Security Tasks



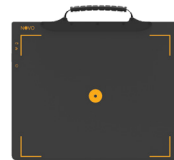
Components

Detector Options

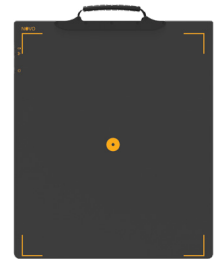
- Internally shielded - long life span
- Increased Detector sensitivity x15 more light!
- Low internal scattering - higher image quality



NOVO 12SFNH
2.6 lbs. (1.2kg)



NOVO 15WNH
5.3 lbs. (2.4kg)



NOVO 22WNH
9.4 lbs. (4.3kg)

Detector Model	NOVO 12SFNH	NOVO 15WNH	NOVO 22WNH
Detector Imaging Area	6.75" x 10.1" (17.2cm x 25.8cm)	9.1" x 11.2" (23.1cm x 28.4cm)	14.0" x 16.8" (35.6cm x 42.7cm)
Detector Size	7.7" x 11.1" (19.5cm x 28.2cm)*	10.6" x 12.9" (26.9cm x 32.9cm)*	15.2" x 18.3" (38.5cm x 46.5cm)*
Active Area (Imaging Area / Detector Size)	80% Active Area	74% Active Area	85% Active Area
Detector Weight (Including Battery)	2.6 lbs. (1.2kg)	5.3 lbs. (2.4kg)	9.4 lbs. (4.3kg)
Detector Load Proof	440 lbs. (200kg)	660 lbs. (300kg)	660 lbs. (300kg)
Detector Drop Test	31.5" (80cm)	20" (50cm)	20" (50cm)
Detector Thickness	0.6" (15mm)	0.6" (15.6mm)	0.6" (15.6mm)
Bit Depth	16 bit latest generation		

* Net Detector dimensions, not including Nautilus Detector Housing component

Rugged Android Tablet

- 8" Screen
- 1000 NIT Ultra Brightness Display
- NOVO Touch Android Software
- 6+ hours of Operation
- Customized buttons for underwater operation



Components



NOVO Touch Software

The NOVO Touch Software is a proprietary software developed in-house to provide the best user experience and functionality in harsh & extreme field conditions.



Improved Genie Algorithm - 4 times faster!

Allows for taking a single image and enhancing both easy to penetrate and difficult to penetrate objects on the same image, while showing all elements and highlighting all the threats with just one touch.



Stitching Feature

Rapidly stitch multiple images together in seconds either by using Automatic Stitching feature or easy to use Manual Stitching with advanced tools, such as HDR etc.



HDR Feature

Allows for taking a high exposure image to penetrate difficult areas, combined with a low exposure image showing delicate items and producing a hybrid High Dynamic Range X-Ray image.



XTK Software

Full Compatibility in Windows & Android

Technology Partner - Sexton

Sexton's experienced team of engineers creates custom underwater products for a variety of industries worldwide, through every stage of development, building, and testing.



Patented: US 12,078,602 B1