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The Leaders in Portable X-Ray Systems

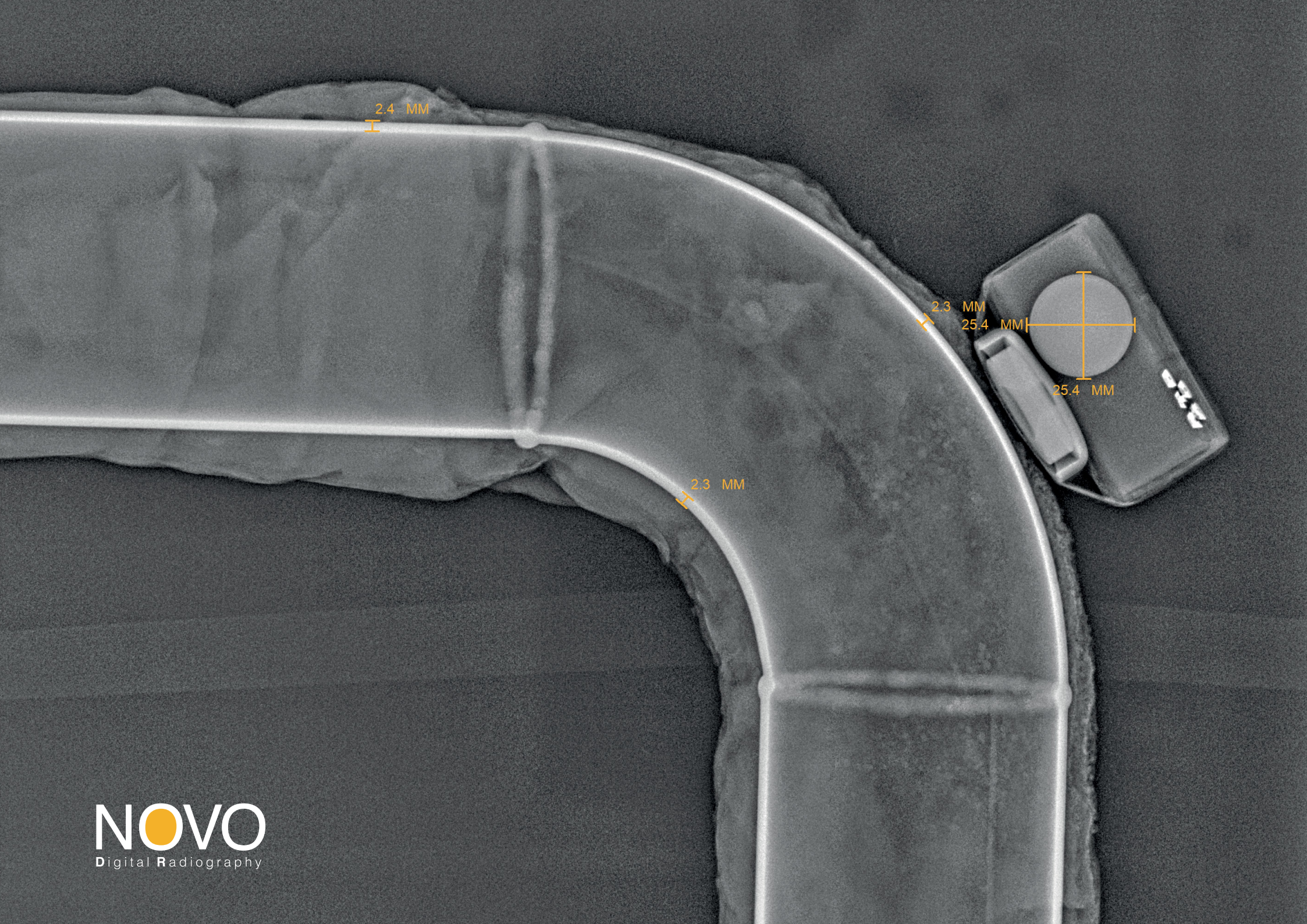
# Products Overview

## NDT

[www.NOVO-DR.com](http://www.NOVO-DR.com) | [info@novo-dr.com](mailto:info@novo-dr.com)

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## About NOVO DR



*NOVO DR Ltd. offers innovative, rugged, and reliable Portable Digital Radiography systems.*

*Designed and engineered in-house by our highly skilled, professional and experienced team, our products provide superb image quality, are intuitive and easy to use.*

## Why NOVO?

3



### High Image Quality

Decades of expertise, detectors built specifically for NDT applications and advanced software, all attribute to the highest image quality.



### Reliable

Our systems are designed for outdoor operations, so we use the best raw materials; proprietary NOVO cables; MIL-DTL 38999 connectors; rugged Detectors & Wireless Mesh Technology for high signal stability.



### Easy to Use

Lightweight Detectors, intuitive NOVO Touch Software and user-friendly system components make NOVO equipment effortless to setup & operate.



### Professional Support

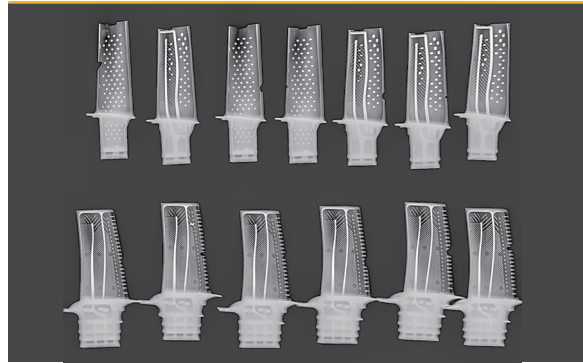
Fast response, the expertise of our team and in-house Developers bring you the right solution.

# Common Applications

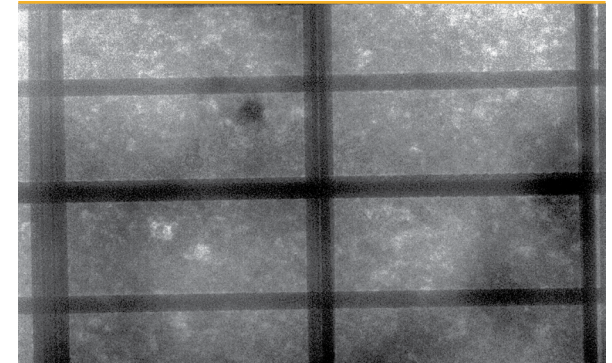
Oil & Gas



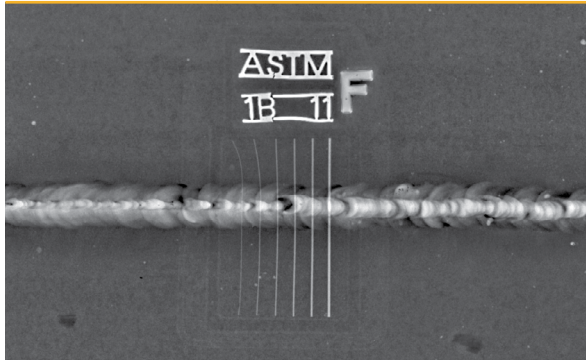
Aerospace



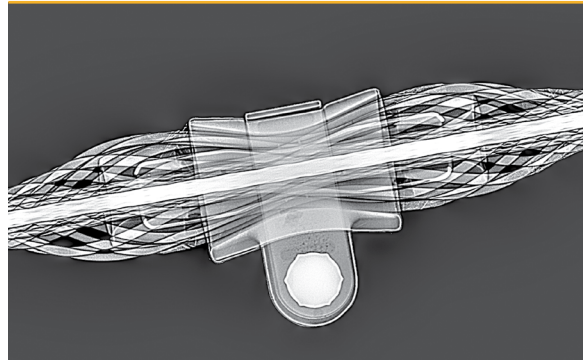
Concrete



Ship Building



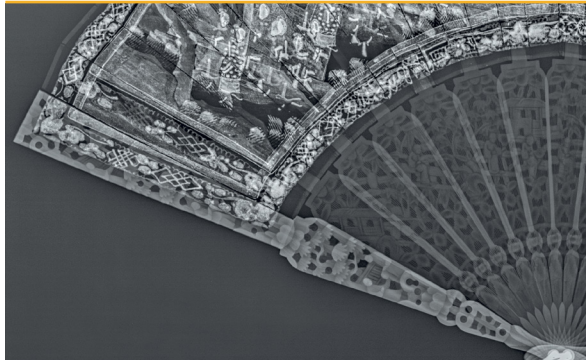
Power Line



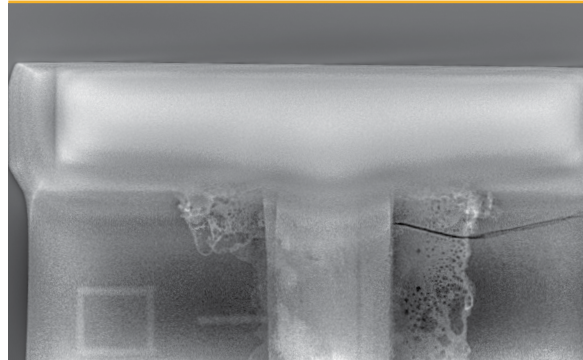
Munition



Art & Archaeology



Railways



International Standards



The NOVO Touch Pro Software has numerous tools necessary to support multiple international standards such as:

- ISO 17636-2 Class B
- BOEING 7044 Ver C
- ASME Section V article 2
- ASTM DICONDE



# NOVO Wireless Mesh Technology



Unique technology providing unmatched wireless performance:

- High signal stability in crowded RF environments, such as urban locations and areas with strong electromagnetic fields
- Up to 0.6 miles (1000m) LOS between wireless devices; longer range when elevating on tripods - up to 1.8 miles (3km)
- Multiple wireless devices allow for working “around corners”, obstacles and underground operations
- Each wireless unit becomes a relay (repeater), which automatically connects and automatically relays wireless signals efficiently





# Systems

NOVO offers a wide variety of Systems suitable for various NDT applications. These are our most popular Systems.

*For detailed information, please review the specific systems' brochures*

## Shadow III NDT System

Ultra Compact System - Ideal for hard to reach locations

- Android Phone / Windows tablet operation
- 12SFN Detector - Detector weighs only 2.6 lbs. (1.2kg) with battery
- Imaging just 0.12" (3mm) from bottom & side
- Wired & wireless operation modes
- Full working system from ~8.8 lbs. (4kg), housed in one Backpack
- Includes NOVO Touch Pro full Software package + NOVO Touch Android App



## Discovery III System

Top of the Line System in a Rugged Pelican Case

- 12/15/22WN Detector options
- Wired & wireless operation modes
- 21.5" 1500 NIT Sun-Readable touch tablet
- MIL-DTL 38999 connectors
- Industrial X-Ray Source control
- Includes NOVO Touch Pro full Software package





# Ultimate III System

## Large Format Backpack



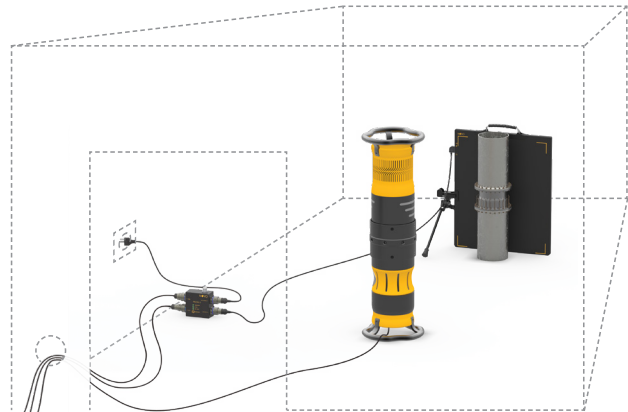
- 12/15/22WN Detector options
- Wired & wireless operation modes
- 10" 1500 NIT touch handheld tablet / Android Phone
- MIL-DTL 38999 connectors
- Supports multi-tablet control & display
- 35m of cable on a lightweight reel
- Includes NOVO Touch Pro full Software package



# Laboratory II System

## Stationary System – Perfect for X-Ray Labs and Cabinets

- 12/15/22WN Detector options
- Wired operation
- MIL-DTL 38999 connectors
- Industrial X-ray Source control
- Includes NOVO Touch Pro full Software package





## NOVO Touch Pro Software

*For detailed information, please review the NOVO Touch Pro Software brochure*

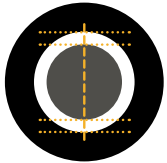


The NOVO Touch Pro Software is a proprietary software developed in-house to provide the best user experience and functionality in field & laboratory operations.



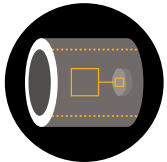
### The Genie Enhancement Feature - Proprietary State-of-the-art Algorithm

Allows taking a single image and enhancing both easy and hard to penetrate areas on the same image, while highlighting all the defects with just one touch! Improved version- 4 times faster!



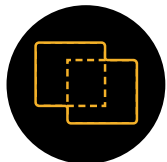
### Wall Thickness Tool

Automatic measurement calibration, fast, easy & automatic wall thickness measurements.



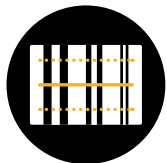
### DWT

Simple & intuitive Double Wall Thickness Technique Tool- converting gray levels into material thickness.



### Stitching Feature

Stitch multiple images using our easy to use, Manual Stitching feature or our extremely fast, Automatic Stitching feature.



### Auto Basic Spatial Resolution Calculator

Select the region of interest and leave the rest to the NOVO SRb calculator.



# Controllers



Spark Mesh



Spark III



Falcon III Mesh



Spark Mesh



Spark III



Falcon III Mesh

|  | Spark Mesh                            | Spark III                             | Falcon III Mesh                       |
|--|---------------------------------------|---------------------------------------|---------------------------------------|
| Controller Weight                            | 0.9 lbs. (0.4kg)                      | 0.7 lbs. (0.3kg)                      | 2 lbs. (0.9kg)                        |
| Battery                                      | 6 hours* battery with 4000 pulses     | 6 hours built-in battery              | 6 hours built-in battery              |
| Wireless Range                               | Up to 0.46 miles (750m) Line of Sight | Up to 0.24 miles (400m) Line of Sight | Up to 0.6 miles (1000m) Line of Sight |
| AC Connection                                | X                                     | X                                     | Unlimited operation with AC (POE)     |
| Connectors                                   | DeWalt 20V mount                      | MIL-DTL 38999 connectors              | MIL-DTL 38999 connectors              |
| Golden Sources Support                       | DeWalt 20V                            | All                                   | All                                   |
| Weatherproof                                 | ✓                                     | ✓                                     | ✓                                     |
| LED Indications                              | ✓                                     | ✓                                     | ✓                                     |
| Supports Golden On/Off & Battery Status Info | ✓                                     | ✓                                     | ✓                                     |

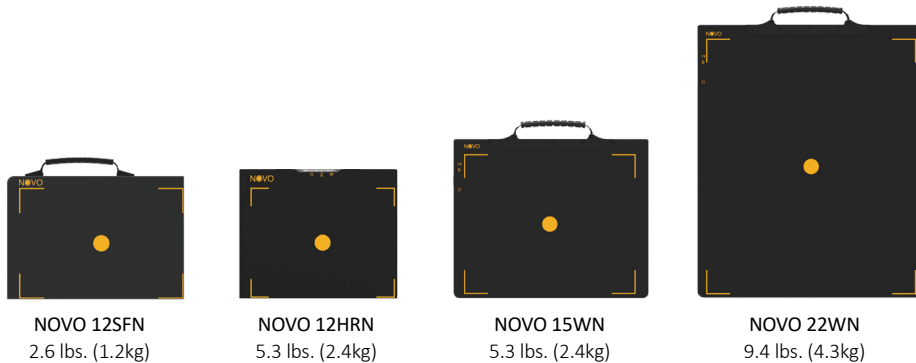
\* Tested with Golden XR150

## Detectors

*For detailed information, please review the specific systems brochures*

The NOVO range of Detectors provide outstanding image quality in a rugged, durable, thin design and are the latest in DR imaging technology.

- Built-in shielding for maximum life span
- High dose resistance
- Dual direction magnetic connector
- Quick removable & rechargeable battery
- Wireless & wired operation
- Specifically designed for fieldwork & harsh weather conditions



| Detector Model                             | NOVO 12SFN                         | NOVO 12HRN                       | NOVO 15WN                         | NOVO 22WN                          |
|--|------------------------------------|----------------------------------|-----------------------------------|------------------------------------|
| Detector Imaging Area                      | 6.75" x 10.1"<br>(17.2cm x 25.8cm) | 6.8" x 9.0"<br>(17.3cm x 22.9cm) | 9.1" x 11.2"<br>(23.1cm x 28.4cm) | 14.0" x 16.8"<br>(35.6cm x 42.7cm) |
| Active Area (Imaging Area / Detector Size) | 80% Active Area                    | 74% Active Area                  | 74% Active Area                   | 85% Active Area                    |
| Detector Weight (Including Battery)        | 2.6 lbs. (1.2kg)                   | 5.3 lbs. (2.4kg)                 | 5.3 lbs. (2.4kg)                  | 9.4 lbs. (4.3kg)                   |
| Detector Load Proof                        | 440 lbs. (200kg)                   | 660 lbs. (300kg)                 | 660 lbs. (300kg)                  | 660 lbs. (300kg)                   |
| Detector Drop Test                         | 31.5" (80cm)                       | 27.5" (70cm)                     | 20" (50cm)                        | 20" (50cm)                         |
| Detector Thickness                         | 0.6" (15mm)                        | 1.1" (27.5mm)                    | 0.6" (15.6mm)                     | 0.6" (15.6mm)                      |
| Bit Depth                                  | 16 bit latest generation           |                                  |                                   |                                    |
| Life Span                                  | Over 100K rem*                     |                                  |                                   |                                    |

\* Over 100K rem of direct exposure on the detector

## Laptops, Tablets & Smartphones

*For detailed information, please review the Bright Tablets / systems brochures*

NOVO offers a variety of tablets that can be operated from our customized case or handheld.

- Proprietary high brightness Tablets
- Used to control the system's operation
- One or multiple parallel location control & display
- Ruggedized Tablets- MIL-STD-810G
- Rugged 7" up to a 21.5" Full HD display
- A variety of Laptops Available
- Windows® 10 & Android OS





# Wireless Extenders

## Ranger III Mesh

The NOVO Ranger III Mesh is a wireless Mesh transceiver which enables increased wireless stability, speed & range between the tablet and the inspection area.

The Ranger III Mesh can also be used as a relay node or as a Wireless Detector unit when stronger Detector communication is needed.



## Wireless Ranger

The NOVO Wireless Ranger is a wireless transceiver, which extends the wireless communication range between the tablet and the inspection area.

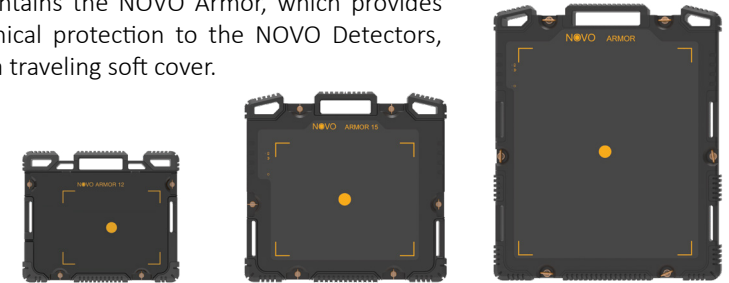


# Accessories

*For detailed information, please review the Accessories brochure*

## Armor Kit

The Armor Kit Contains the NOVO Armor, which provides additional mechanical protection to the NOVO Detectors, Armor Stand and a traveling soft cover.



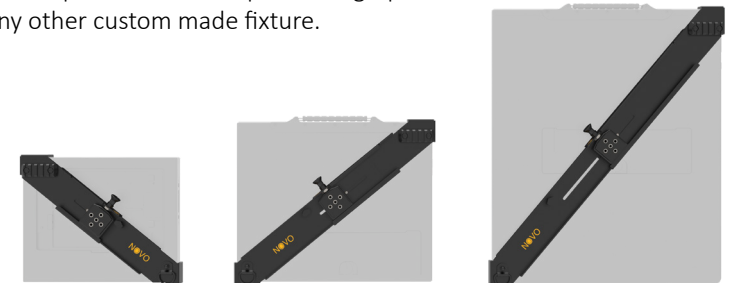
## Soft Protective Cover

The Detector Soft Protective Cover is a lightweight accessory, which provides impact, heat and liquid protection for NOVO Detectors.



## Diagonal Tripod Mounts

The Diagonal Tripod Mount is a lightweight adapter that firmly holds the Detector and provides various positioning options using a tripod or any other custom made fixture.



## Communication Cables

The communication cables provide reliable and fast data transmission between the various system parts.



## Detector Stand

The Detector Stand is a custom-made accessory that firmly holds the Detector in an upright position (portrait or landscape).



## Wireless X-ray

Enables control of X-Ray generators without an X-Ray sync cable.



## Detector Frame

Detector adapter for Manipulators and Mechanical Systems.



## Lookout

- Organic detection
- Live Video
- Audio
- LED lights
- Infrared light





## Cases & backpacks

NOVO offers a wide array of customized cases for a range of applications.

- Customized internal & external design
- Rugged
- Small foot print
- Lightweight



Discovery III Case



Ultimate III Backpack



Tactical III Backpack



## X-Ray & Isotopes

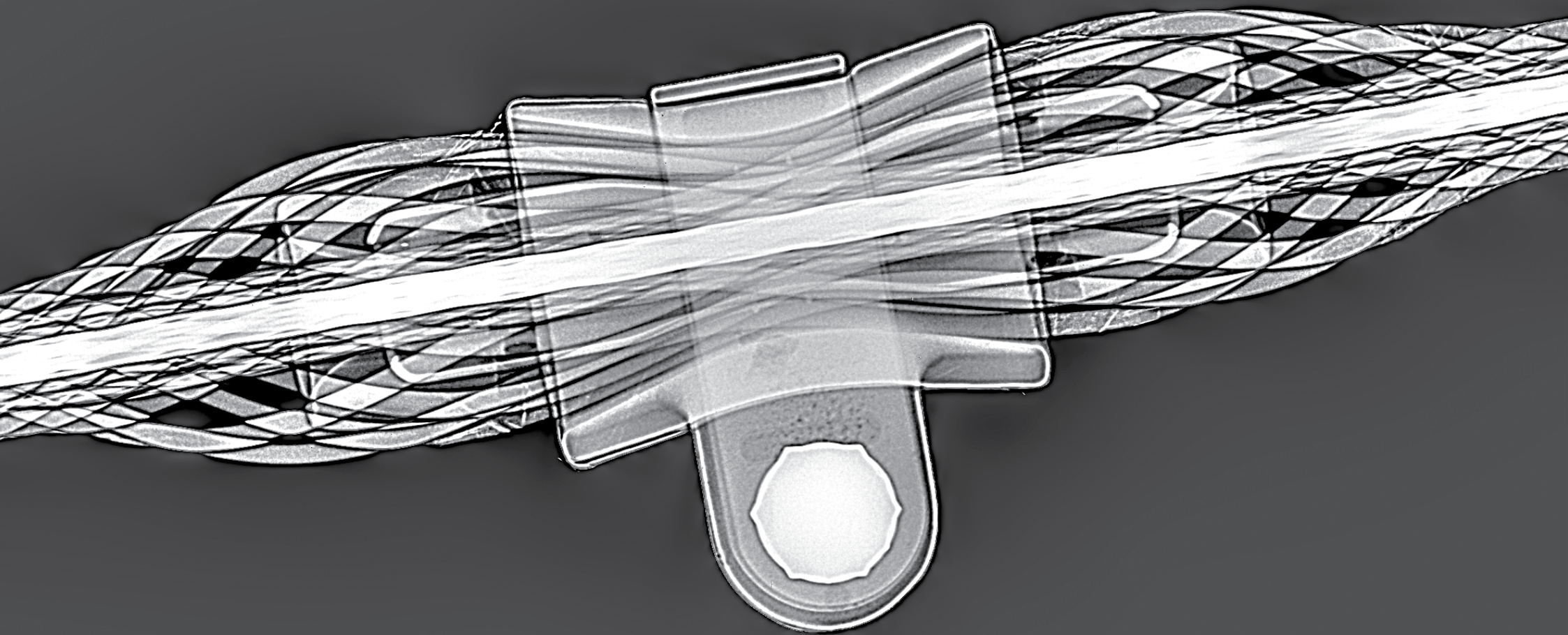
*For detailed information, please review the systems brochures*

The NOVO systems are designed to operate with Isotopes, and with most of the existing X-Ray generators in the market, as well as the entire range of Golden Engineering pulsed X-Ray generators.

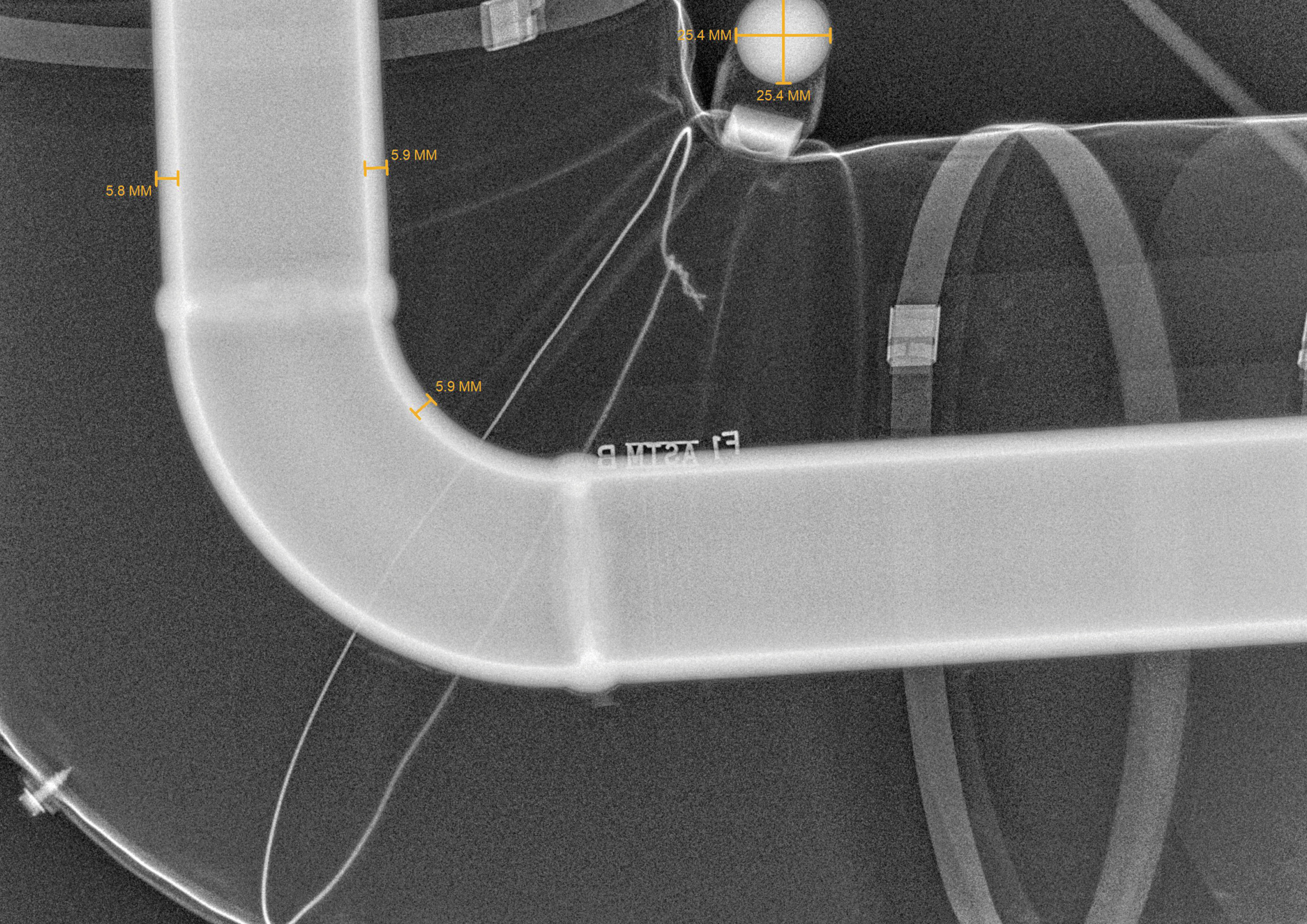
- Reduced dose, increased safety, improved productivity, prolonged tube life and enable Isotopes usage at a very low activity level
- Operational safety distance is easily obtained with wired or wireless capabilities
- Specially designed connector/picatinny connects the Golden generator to the Controller for quick deployment
- The optional Golden X-Ray generators are portable, battery operated, lightweight & contain no radioactive materials



constant potential







5.8 MM

5.9 MM

5.9 MM

25.4 MM

25.4 MM

EL 251M B





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*\*Technical specifications may change at the discretion of the manufacturer*