

The Leaders in Portable X-Ray Systems

# Discovery III System



**NOVO Mesh Technology -  
Unmatched Wireless Performance**



## Top of the Line System in a Rugged Pelican Case

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

# System Overview



Available with  
12SFN/12HRN/15WN/22WN Detectors



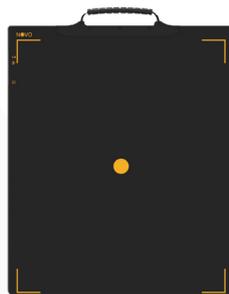
NOVO 12SFN



NOVO 12HRN



NOVO 15WN



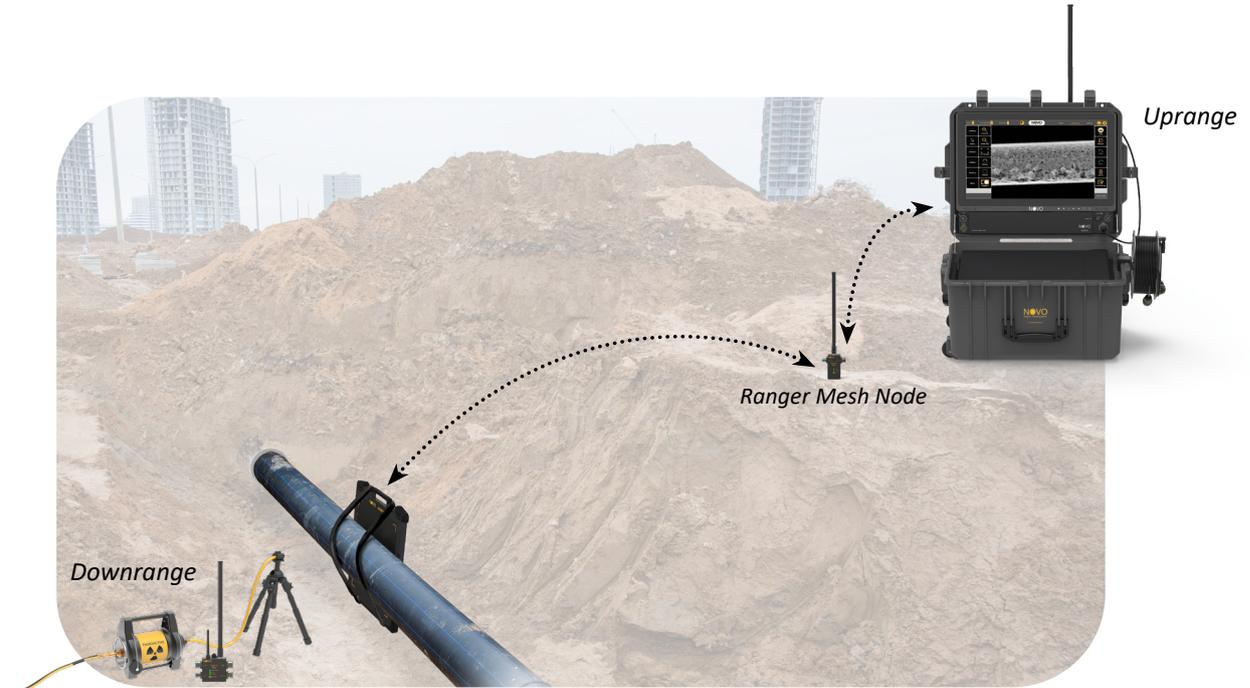
NOVO 22WN



# NOVO Wireless Mesh Technology

Unique technology providing unmatched wireless performance:

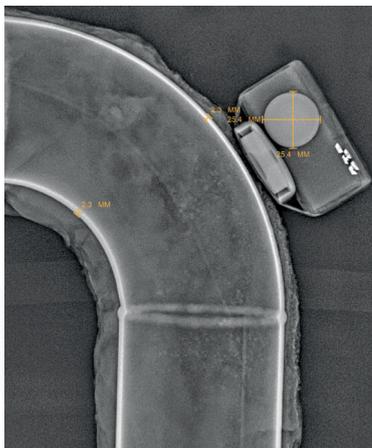
- High signal stability in crowded RF environments, such as urban locations and areas with strong electromagnetic fields
- Up to 0.6 miles (1000m) LOS between wireless devices; longer range when elevating on tripods - up to 1.8 miles (3km)
- Multiple wireless devices allow for working “around corners”,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



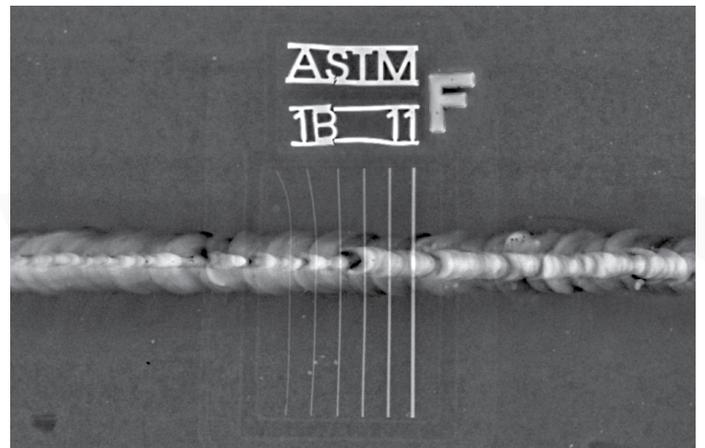
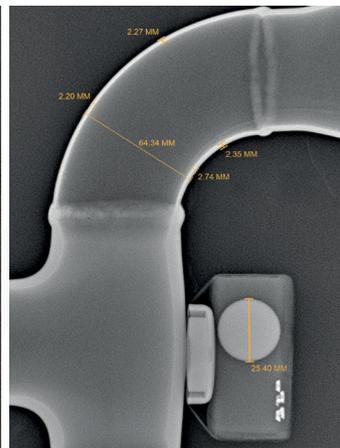
## NOVO Touch Pro Software

### Key Software Features

- GENIE - One Touch Enhancement
- Auto Wall Thickness Calibration and Measurement
- Auto Basic Spatial Resolution (SRb calculator)
- Pixel Map
- Line Profile
- DWT (Double Wall Thickness Technique)
- Manual & Automatic Image Stitching
- Averaging (Frame Integration)
- Image Statistics
- 1600% Zoom
- Annotations - Text, highlight, arrows, etc. and many more....



Wall Thickness Measurements



Weld Quality Examination

# Components

## Falcon III Mesh Controller

- Full control of industrial & Golden Generators
- MIL-DTL 38999 connectors
- Only 2 lbs. (900 grams)
- Unlimited operation with AC (POE)
- 6 hours Built-in Battery
- Wired/Semi Wired /Wireless Communication
- Wireless Up to 0.6 miles (1000m) Line of Sight
- Controls All Golden Generators
- Weatherproof design
- LED Indications
- Supports Parallel Multi Location Control & Display



## Detector Options

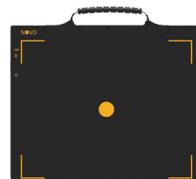
- Internally shielded - long life span
- High radiation resistance
- Low internal scattering- higher image quality



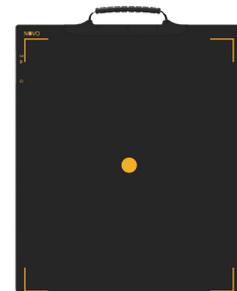
NOVO 12SFN  
2.6 lbs. (1.2kg)



NOVO 12HRN  
5.3 lbs. (2.4kg)



NOVO 15WN  
5.3 lbs. (2.4kg)



NOVO 22WN  
9.4 lbs. (4.3kg)

| 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<br>(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 Tolerance                       | 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           | 16 bit latest generation         | 16 bit latest generation          | 16 bit latest generation           |
| Life Span                                     | Over 100K rem*                     | Over 100K rem*                   | Over 100K rem*                    | Over 100K rem*                     |

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

# Components

## Tablets (Most popular)



|                                   | NOVO Bright XL               | NOVO Bright L                | NOVO Bright S                | Panasonic Toughbook® CF-33 | Panasonic Toughpad™ FZ-G2 | Samsung S22 |
|-----------------------------------|------------------------------|------------------------------|------------------------------|----------------------------|---------------------------|-------------|
| Screen Size                       | 21.5"                        | 17"                          | 10.1"                        | 12"                        | 10.1"                     | 6.1"        |
| Screen Resolution                 | 1920 x 1080                  | 1920 x 1200                  | 1920 x 1200                  | 2160 x 1440                | 1920 x 1200               | 2340 x 1080 |
| Screen Brightness (NIT)           | 1500 (!)<br>Super Brightness | 1500 (!)<br>Super Brightness | 1500 (!)<br>Super Brightness | 1200                       | 1000                      | 980         |
| Touch Screen                      | ✓                            | ✓                            | ✓                            | ✓                          | ✓                         | ✓           |
| Operating System                  | Windows 10                   | Windows 10                   | Windows 10                   | Windows 10                 | Windows 10                | Android     |
| Battery Operation Time at 800 NIT | 6+ hours                     | 7+ hours                     | 6+ hours                     | 8 hours                    | 5+ hours                  | 10+ hours   |

\*Additional tablets and laptops supported

## Power & Communication Hub III

- Provides both power and data communication
- MIL-STD 38999 Connectors
- USB 3.0 Fast Data Ports – USB C, USB A
- HDMI Connection



## X-Ray Generators



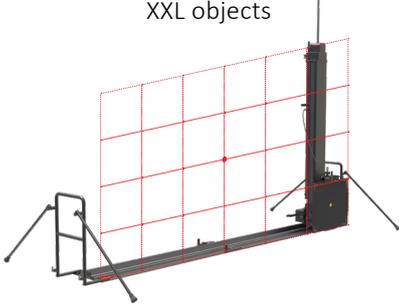
|        | Litex  | XR150  | XR200   | XRS-3   | XRS-4   |
|--------|--|--|---|---|---|
| KVP    | 120  | 150  | 150   | 270   | 370   |
| Weight | 5.6 lbs. (2.5kg)                               | 5.9 lbs. (2.7 kg)                              | 10.7 lbs. (4.8 kg)                                | 11.8 lbs. (5.3 kg)                                | 18.3 lbs. (8.3 kg)                                |
| Size   | 11.7" x 3.2" x 4.7"<br>(29.9cm x 8.2cm x 12cm) | 10.4" x 3.5" x 4.7"<br>(26.6cm x 9cm x 12.1cm) | 10.7" x 4.3" x 5.8"<br>(27.2cm x 10.8cm x 14.8cm) | 14.2" x 4.3" x 5.8"<br>(36.1cm x 10.9cm x 14.8cm) | 19.3" x 4.8" x 7.1"<br>(48.9cm x 12.2cm x 17.9cm) |

\*Supports Additional X-Ray Generators

# Accessories

## Folding Slider XXL

Super sized, ideal for screening  
XXL objects

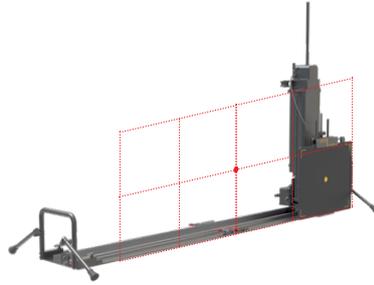


**NOVO Mesh Technology**



## Folding Slider L

Ideal for screening large objects

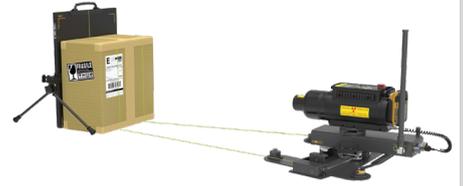


**NOVO Mesh Technology**



## 3D Arc

3D Imaging with  
exact X, Y, Z measurements



**NOVO Mesh Technology**



## 3D Arc Lite

Small 3D Imaging with exact  
X, Y, Z measurements



## Extension Cables

Available at 50m, 100m  
and 150m for a total of 300m



## Armor

Super rugged detector  
protection with multiple  
mounting options



## Soft Protective Cover

Lightweight impact,  
heat and liquid protection



## Diagonal Tripod Mount

Firmly holds the detector  
and provides various  
positioning options



## Lookout

Organic detection,  
live Video & Audio



## Wireless X-Ray

Enables control of  
X-Ray sources without  
an X-Ray sync cable



## C-Arm Frame

Detector adapter for  
C-Arm, Manipulators and  
Mechanical Systems

