

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

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

System Overview



Available with
10BN/18BN/12SFN/12HRN/15WN/22WN Detectors



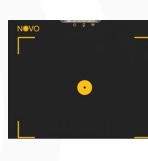
NOVO 10BN Bendable



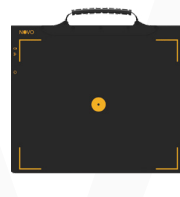
NOVO 18BN Bendable



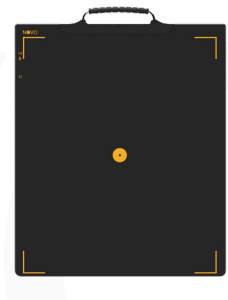
NOVO 12SFN



NOVO 12HRN



NOVO 15WN



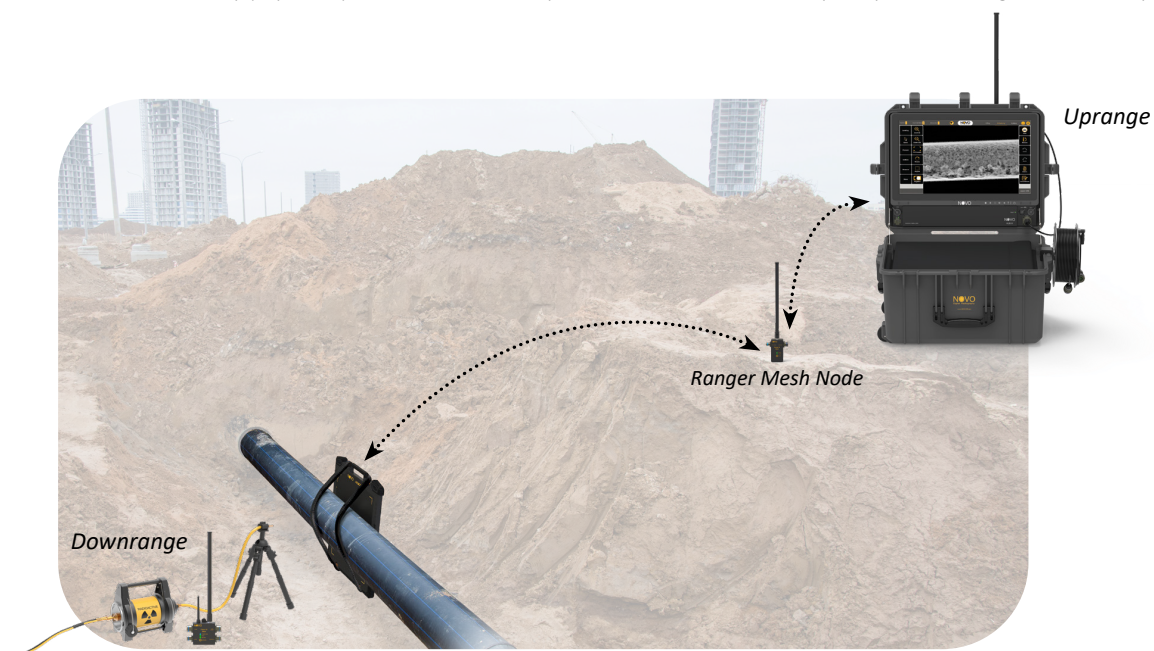
NOVO 22WN



NOVO Wireless Mesh Technology

Unique technology providing unmatched wireless performance:

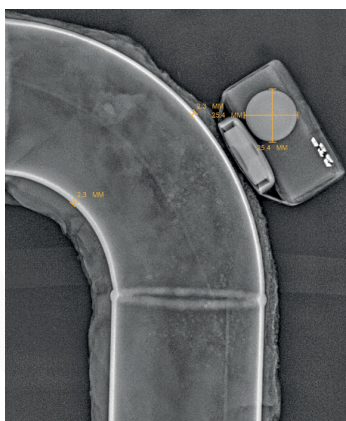
- High signal stability in crowded RF environments, such as urban locations and areas with strong electromagnetic fields
- Up to 0.6 miles (1000m) LOS between wireless devices; longer range when elevating on tripods - up to 1.8 miles (3km)
- Multiple wireless devices allow for working “around corners”,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



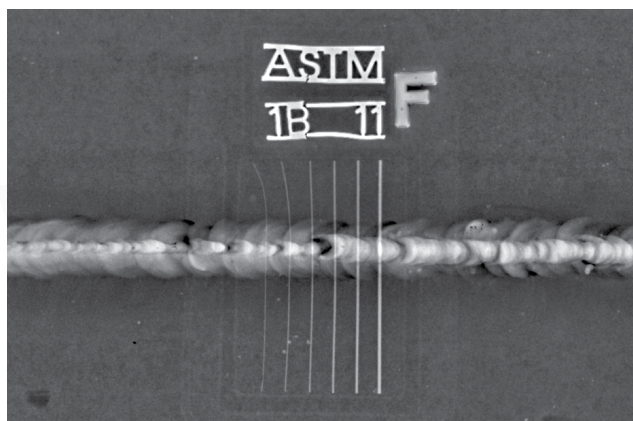
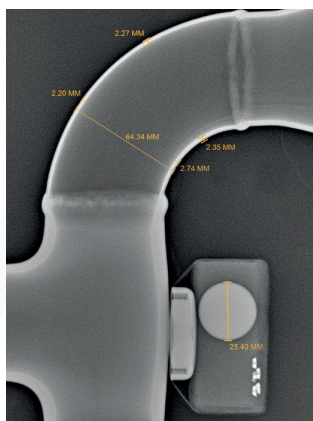
NOVO Touch Pro Software

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

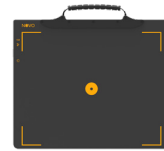
- Internally shielded - long life span
- High radiation resistance
- Low internal scattering - higher image quality



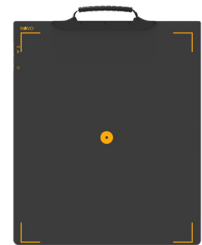
NOVO 12SFN
2.6 lbs. (1.2kg)



NOVO 12HRN
5.3 lbs. (2.4kg)



NOVO 15WN
5.3 lbs. (2.4kg)



NOVO 22WN
9.4 lbs. (4.3kg)

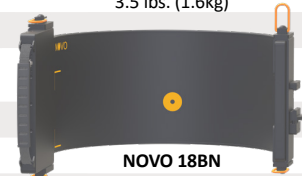
Detector Model	NOVO 12SFN	NOVO 12HRN	NOVO 15WN	NOVO 22WN
Detector Imaging Area	6.75" x 10.1" (17.2cm x 25.8cm)	6.8" x 9.0" (17.3cm x 22.9cm)	9.1" x 11.2" (23.1cm x 28.4cm)	14.0" x 16.8" (35.6cm x 42.7cm)
Active Area (Imaging Area / Detector Size)	80% Active Area	74% Active Area	74% Active Area	85% Active 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*			

NOVO 10/18BN Bendable Detectors

Detector Model	NOVO 18BN Bendable Detector	NOVO 10BN Bendable Detector
Pixel size	99 microns	99 microns
Net Weight	Sensor: 3.9 lbs. (1.8kg) Electronics Unit: 2.6 lbs. (1.2kg)	Sensor: 3.5 lbs. (1.6kg) Electronics Unit: 2.6 lbs. (1.2kg)
Load Tolerance	220.5 lbs. (100kg)	220.5 lbs. (100kg)
Detector Imaging Area	16.33" X 3.82" (415mm X 97mm) 4184 X 981 pixels	9.8" X 3.8" (227mm X 98mm) 2299 X 988 pixels
Size	Sensor: 24.42" X 7.2" (620mm X 182mm) Electronics Unit: 9.8" X 7.4" (250mm X 188mm)	Sensor: 17.4" X 7.2" (443mm X 182mm) Electronics Unit: 9.8" X 7.4" (250mm X 188mm)
Drop Test	29.5" (75cm)	29.5" (75cm)
Thickness	Sensor: 0.85" (21.5mm) Electronics Unit: 4.72" (120mm)	Sensor: 0.85" (21.5mm) Electronics Unit: 0.8" (20mm)
Bit Depth	16bit	16bit
Life Span	Over 100K rem*	Over 100K rem*
Bending	From flat to 12" diameter (~300mm)	From flat to 6" diameter (~150mm)



NOVO 10BN
3.5 lbs. (1.6kg)



NOVO 18BN
3.9 lbs. (1.8kg)

* 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 Galaxy S
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 (!) Super Brightness	1500 (!) Super Brightness	1500 (!) Super Brightness	1200	1000	980
Touch Screen	✓	✓	✓	✓	✓	✓
Operating System	Windows	Windows	Windows	Windows	Windows	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" (29.9cm x 8.2cm x 12cm)	10.4" x 3.5" x 4.7" (26.6cm x 9cm x 12.1cm)	10.7" x 4.3" x 5.8" (27.2cm x 10.8cm x 14.8cm)	14.2" x 4.3" x 5.8" (36.1cm x 10.9cm x 14.8cm)	19.3" x 4.8" x 7.1" (48.9cm x 12.2cm x 17.9cm)

*Supports Additional X-Ray Generators

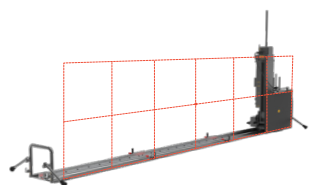
Accessories



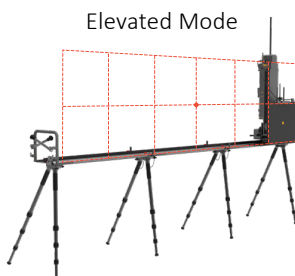
Supporting NOVO Mesh Technology

Folding Slider L

Ideal for screening large objects

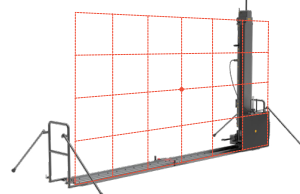


Elevated Mode



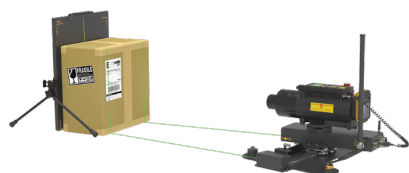
Folding Slider XXL

Super sized, ideal for screening XXL objects



3D Arc Mesh

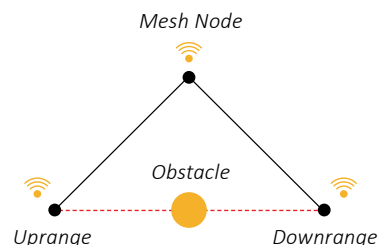
3D automated imaging with exact X, Y, Z measurements



Additional Ranger Mesh Node



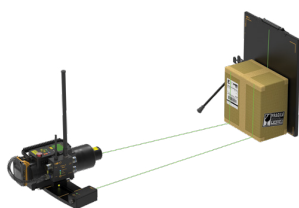
Multiple Nodes allow for working "around corners", obstacles and subterranean operations.



Additional Accessories

3D Arc Lite

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



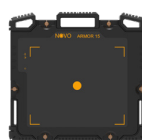
Extension Cables

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



Protective Casing

Armor



Soft Cover



Diagonal Tripod Mount

Firmly holds 12/15/22" detectors and provides various positioning options



Falcon Power Bank

Provides additional 6 hours of operation time



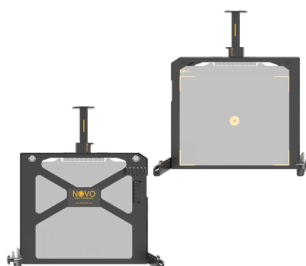
Wireless X-Ray

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



Robot Detector Frame

Lightweight, shock absorbing



Robot C-Arm

Detector and X-Ray Holder

