

The Leaders in Portable X-Ray Systems

# Ultimate III System



**NOVO Mesh Technology -**  
Unmatched Wireless Performance



## Large Format Backpack System

- 10BN/12HRN/15WN/22WN Detector options
- Wired & wireless operation modes
- 10" 1500 NIT touch handheld tablet / Android Phone
- MIL-DTL 38999 connectors
- Supports multi-tablet control & display
- 50m cable on a lightweight reel
- Includes NOVO Touch Pro full Software package

# System Overview

## Wireless Operation:

NOVO Bright S 10" 1500 NIT Tablet & NOVO Touch Pro Windows Software

Wireless Ranger III Mesh



**Improved  
Genie Algorithm**  
- Now 4 times  
faster!



Bipod

Golden X-Ray Generator

Falcon III Mesh Controller

Detector

## Wired Operation:

50m Lightweight Power & Communication Cable



Ultimate III Backpack\*  
17" x 24" x 8.8"  
(43.5cm x 61cm x 22.5cm)



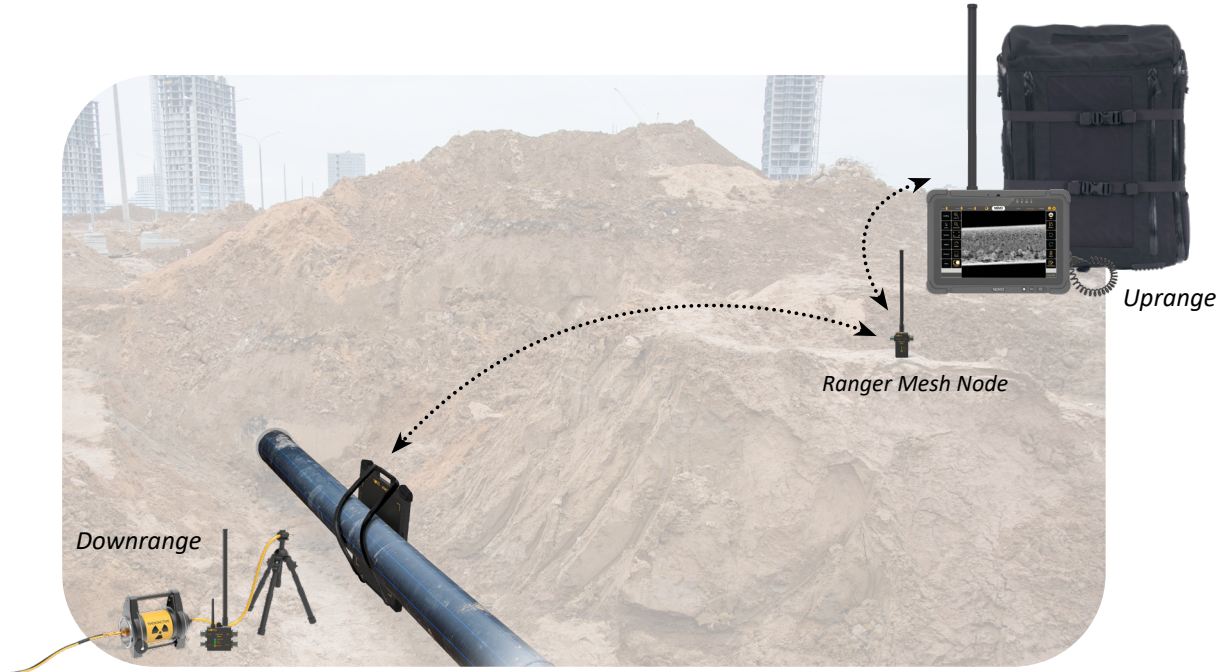
\* Smaller Backpacks Available



# 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



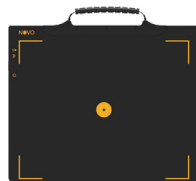
## Components

### Detector Options

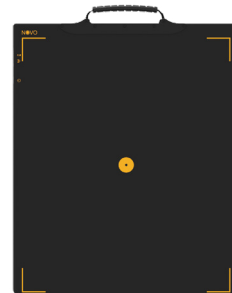
- Internally shielded - long life span
- High radiation resistance
- Low internal scattering - higher image quality



NOVO 12HRN  
5.3 lbs. (2.4kg)



NOVO 15WN  
5.3 lbs. (2.4kg)



NOVO 22WN  
9.4 lbs. (4.3kg)



NOVO 10BN  
3.5 lbs. (1.6kg)

Detector Model	NOVO 12HRN	NOVO 15WN	NOVO 22WN	NOVO 10BN
Detector Imaging Area	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)	9.8" X 3.8" (227mm X 98mm) 2299 X 988 pixels
Active Area (Imaging Area / Detector Size)	74% Active Area	74% Active Area	85% Active Area	-
Detector Weight (Including Battery)	5.3 lbs. (2.4kg)	5.3 lbs. (2.4kg)	9.4 lbs. (4.3kg)	<b>Sensor:</b> 3.5 lbs. (1.6kg) <b>Electronics Unit:</b> 2.6 lbs. (1.2kg)
Detector Load Tolerance	660 lbs. (300kg)	660 lbs. (300kg)	660 lbs. (300kg)	220.5 lbs. (100kg)
Detector Drop Test	27.5" (70cm)	20" (50cm)	20" (50cm)	29.5" (75cm)
Detector Thickness	1.1" (27.5mm)	0.6" (15.6mm)	0.6" (15.6mm)	<b>Sensor:</b> 0.85" (21.5mm) <b>Electronics Unit:</b> 0.8" (20mm)
Bit Depth	16 bit latest generation	16 bit latest generation	16 bit latest generation	16bit
Life Span	Over 100K rem*	Over 100K rem*	Over 100K rem*	Over 100K rem*
Bending	-	-	-	From flat to 6" diameter (~150mm)

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



# 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



## Tablets (Most popular)



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

\*Additional tablets and laptops supported

## 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

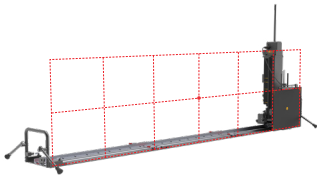
# Accessories



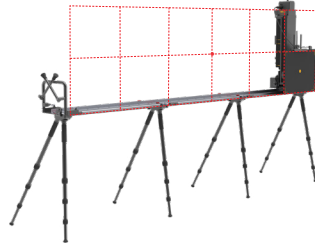
## Supporting NOVO Mesh Technology

### Folding Slider L

Ideal for screening large objects

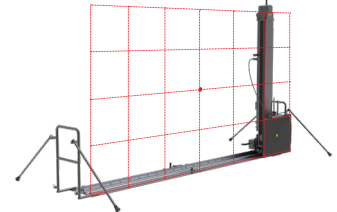


Elevated Mode



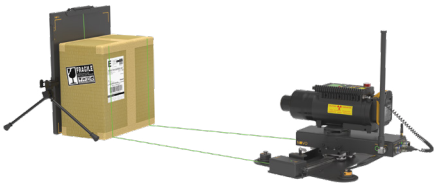
### Folding Slider XXL

Super sized, ideal for screening XXL objects



### 3D Arc Mesh

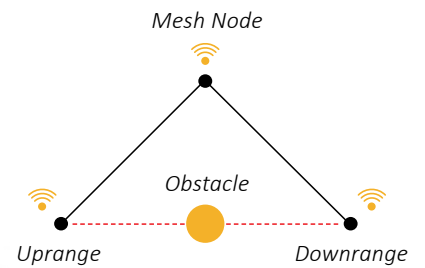
3D automated imaging with exact X, Y, Z measurements



### Additional Ranger Mesh Node



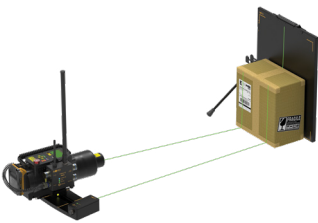
Multiple Nodes allow for working "around corners", obstacles and subterranean operations.



## Additional Accessories

### 3D Arc Lite

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



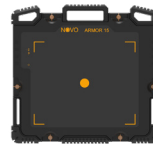
### Extension Cables

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



### Lookout

Organic detection, live Video & Audio



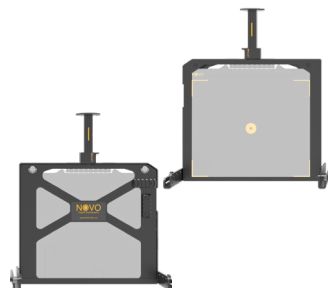
### Wireless X-Ray

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

