

The Leaders in Portable X-Ray Systems

# Shadow III System



NOVO Mesh System -  
Unmatched Wireless Performance



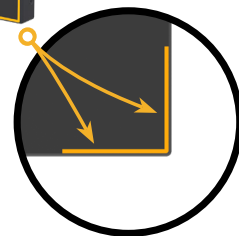
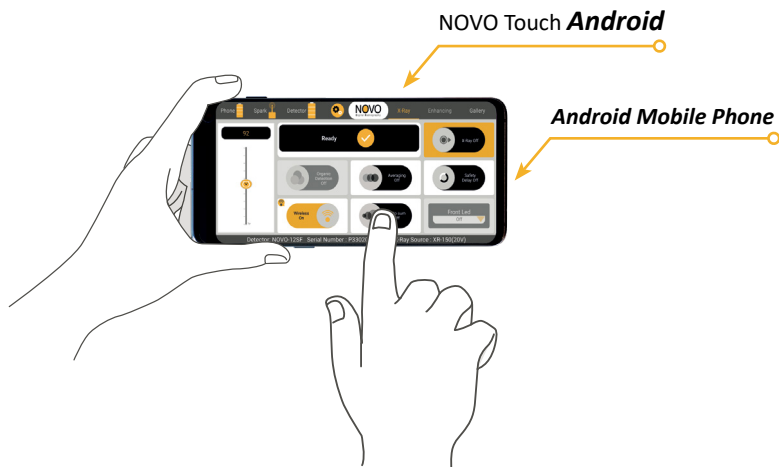
## Super Light System - Ideal for Special Forces

- 12SF Detector - only 2.2 lbs. (1kg) with battery
- Android Phone / Windows tablet operation
- Imaging just 0.12" (3mm) from bottom & side
- Wired & wireless operation modes
- Working system only 8.8 lbs. (4kg)
- Digital Amorphous Silicon Detector- solid state, no moving parts
- Operates with NOVO Touch Software
- Compatible with Android XTK

# System Overview



*Improved  
Genie Algorithm  
- pulls out minute  
details 4 times  
faster!*



Golden XR150 X-Ray Generator

Spark Mesh Battery Free

Shadow Backpack



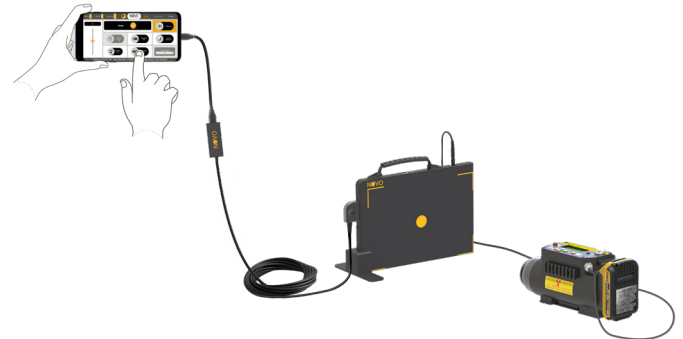
# System Operations

## Android / Windows - Wireless & Wired Operation

### Android Wireless Setup



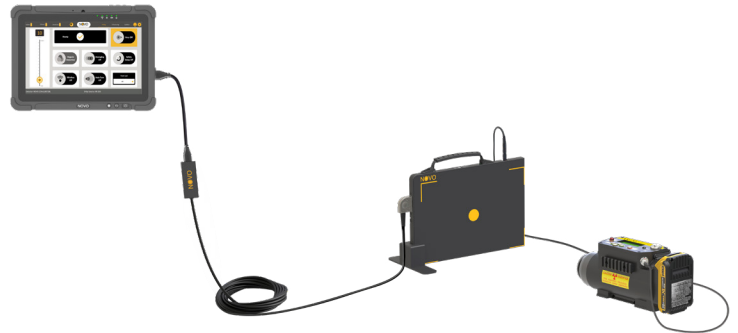
### Android Wired Setup



### Windows Wireless Setup



### Windows Wired Setup



## Automatic Exposure Detection (AED)

(No Mobile Phone or Tablet, No Cables- Operational at Even 1 Pulse!)

AED activated by 1 pulse behind\*:

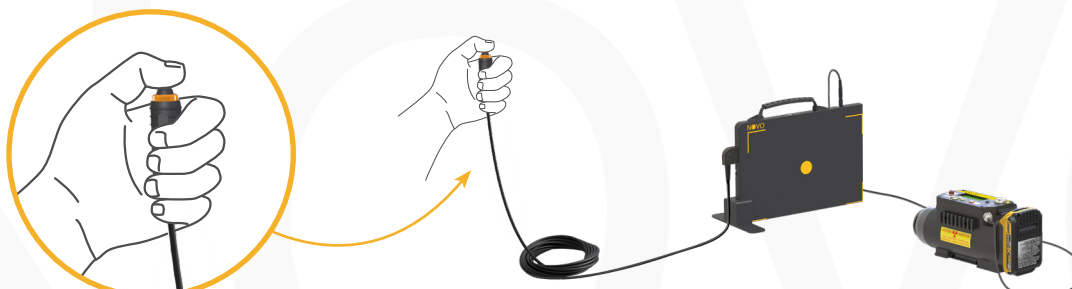
X-Ray Source Model	Steel Plate Thickness
XR-150 & XR-200	0.4" (10mm)
XRS-3	0.8" (20mm)
XRS-4	1.4" (35mm)

\*X-Ray Generator located ~30" (75cm) from the Detector



## Dead Man's Switch Operation

(No Mobile Phone/Tablet/System Controller Required)



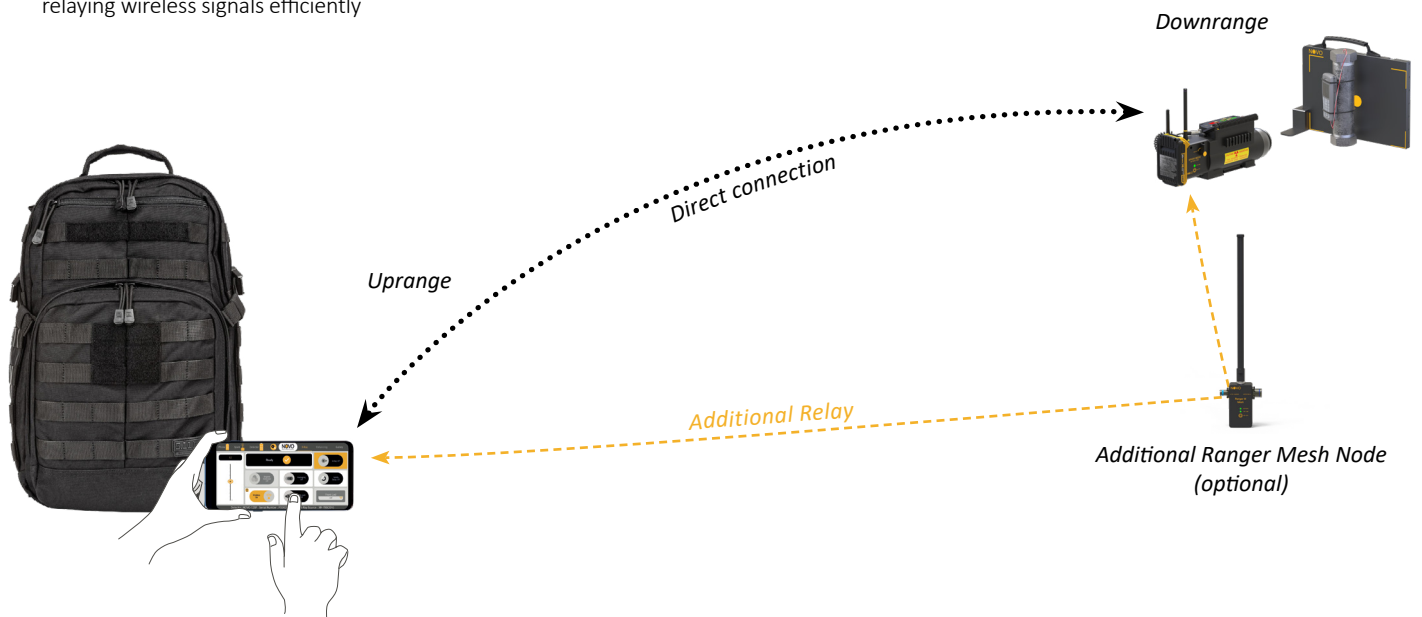




# NOVO Wireless Mesh Technology

Unique technology providing unmatched wireless performance:

- Strong signal stability in crowded RF environments, especially ideal for urban scenarios
- Up to 0.31 miles (500m) LOS between Nodes
- Multiple Nodes allow for working “around corners”, obstacles and subterranean operations
- Each wireless unit becomes a relay Node, automatically connecting and relaying wireless signals efficiently



## Components

### Detector

- Lightest in the market
- Unmatched image quality

Detector Model	NOVO 12SF	
Steel Penetration *	3.5" (90mm)	
Dead Space	0.12" (3mm) from bottom & side	
Detector Weight (including battery)	2.2 lbs. (1kg)	
Detector Drop Test	40" (100cm)	
Detector Load Proof	440 lbs. (200kg)	
Detector Imaging Area	6.75" x 10.1" (17.2cm x 25.8cm)	
Detector Size	7.7" x 11.1" (19.5cm x 28.2cm)	
Active Area (Imaging Area / Detector Size)	80% Active Area	
Detector Thickness	0.6" (15mm)	
Bit Depth	16 bit latest generation	NOVO 12SF 2.2 lbs. (1kg)
Connector	Magnetic Dual Direction Connector	



\* Tested with Golden XRS-3 at ~10" (25cm)

# Components

## Controllers

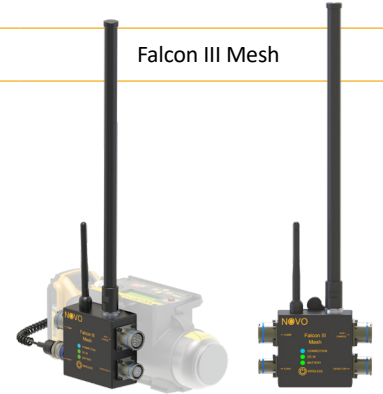
Spark Mesh Battery Free



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 0.31 miles (500m) Line of Sight	Up to 0.24 miles (400m) Line of Sight	Up to 0.6 miles (1000m) Line of Sight
AC Connection	<b>X</b>	<b>X</b>	Unlimited operation with AC (POE)
Connectors	DeWalt 20V mount	MIL-DTL 38999 connectors	MIL-DTL 38999 connectors
Golden Generators Supported	DeWalt 20V	All	All
Quick Connection to Generator	✓	✓	✓
Weatherproof	✓	✓	✓
LED Indications	✓	✓	✓
Supports Golden On/Off & Battery Status Info	✓	✓	✓
Robots Integration	<b>X</b>	<b>X</b>	Integration module for robots with quick connection

\* Tested with Golden XR150

## Tablets (Most popular)



Samsung Galaxy S

NOVO Bright S

Panasonic Toughpad™ FZ-G2

Screen Size	6.1"	10.1"	10.1"
Screen Resolution	2340 x 1080	1920 x 1200	1920 x 1200
Screen Brightness (NIT)	980	1500 (!) Super Brightness	1000
Touch Screen	✓	✓	✓
Operating System	Android	Windows 10	Windows 10
Battery Operation Time at 800 NIT	10+ hours	6+ hours	5+ hours

\*Additional tablets and laptops supported

# Components

## 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. (2.7kg)	10.7 lbs. (4.8kg)	11.8 lbs. (5.3kg)	18.3 lbs. (8.3kg)
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

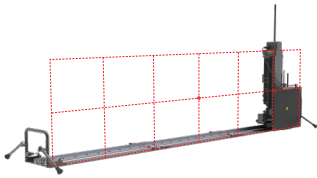
# Accessories



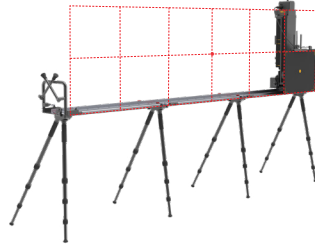
## Supporting NOVO Mesh Technology

### Folding Slider L

Ideal for screening large objects

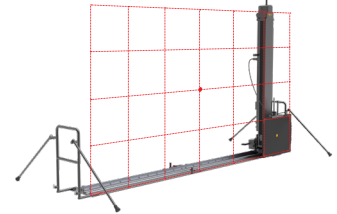


Elevated Mode



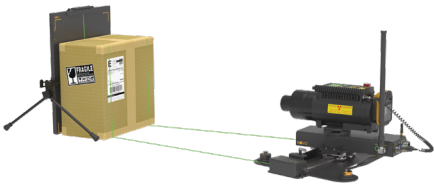
### Folding Slider XXL

Super sized, ideal for screening XXL objects



### 3D Arc

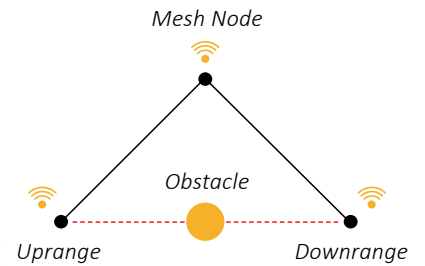
3D automated imaging with exact X, Y, Z measurements



### Additional Ranger Mesh Node



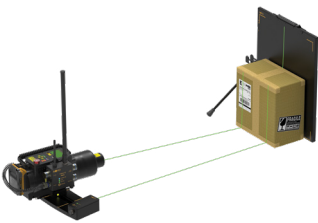
Multiple Nodes allow for working "around corners", obstacles and subterranean operations.



## Additional Accessories

### 3D Arc Lite

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



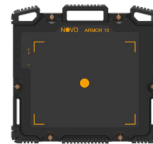
### Extension Cables

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



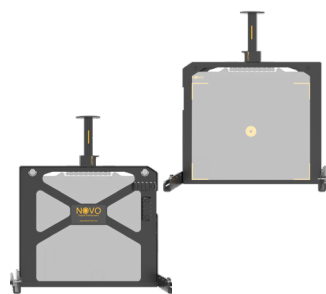
### Robot C-Arm

Detector and X-Ray Holder



### Robot Detector Frame

Lightweight, shock absorbing



Compatible with the XTK® Software

For detailed information, please review the [EOD & Special Forces Accessories](#) and [Robot Accessories](#) brochures.