NOVO
Digital Radiography

The Leaders in Portable X-Ray Systems

Shadow III System

M

NOVO Mesh System -
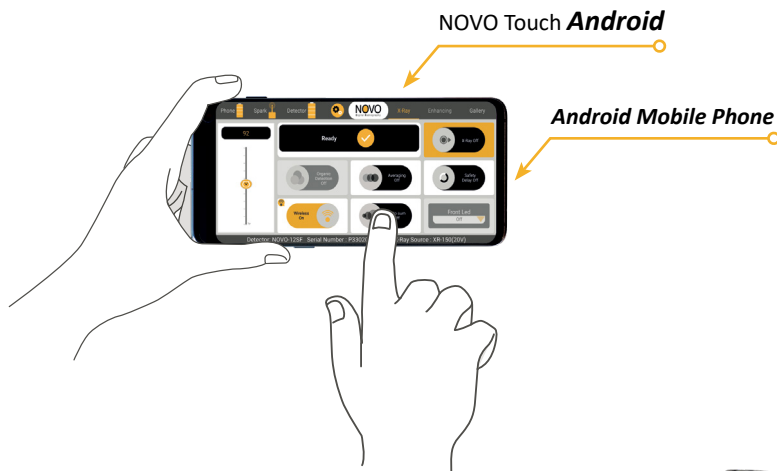## Unmatched Wireless Performance

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
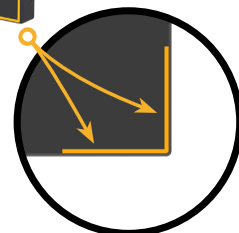- Compatible with Android XTK

www.NOVO-DR.com · info@novo-dr.com

System Overview

NOVO Touch *Android*

Android Mobile Phone

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

NOVO 12SF Detector

Detector Stand for 12SF

Golden XR150 X-Ray Generator

Spark Mesh Battery Free

Imaging just 0.12" (3mm) from bottom & side
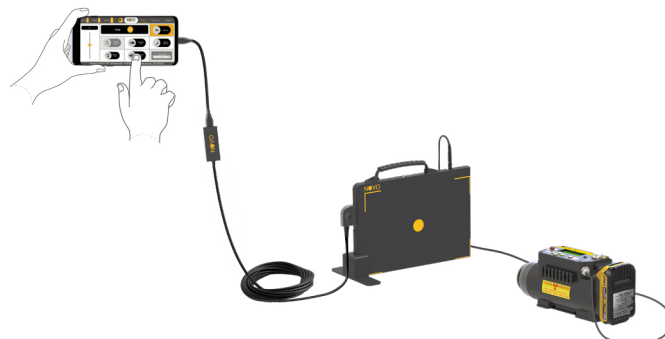
Shadow Backpack

System Operations

Android / Windows - Wireless & Wired Operation

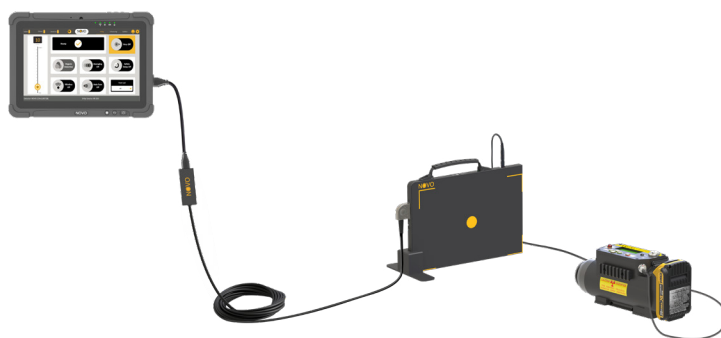**Android Wireless Setup**

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!)
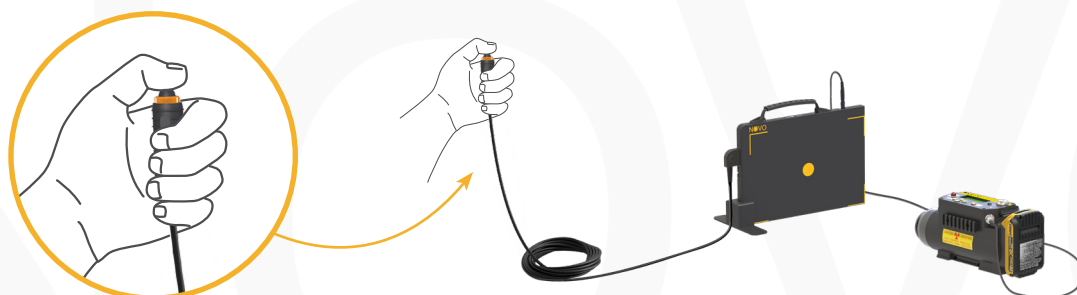
AED activated by 1 pulse behind*:

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

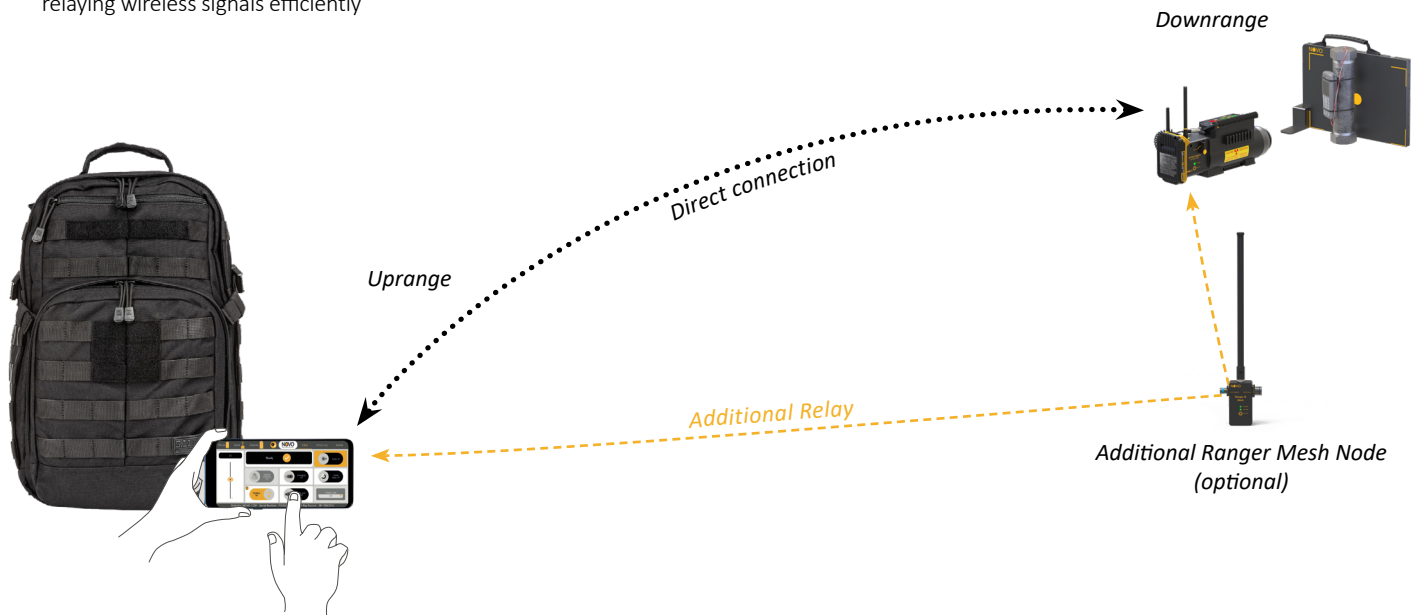(No Mobile Phone/Tablet/System Controller Required)

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

Downrange

Direct connection

Uprange

Additional Relay

Additional Ranger Mesh Node (optional)

Components

Detector

- Lightest in the market
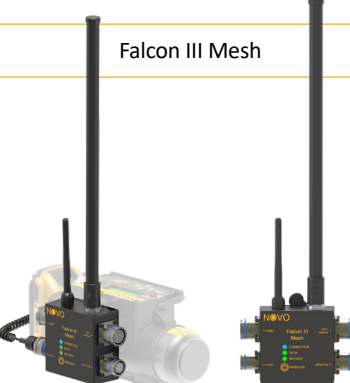- Unmatched image quality

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
Connector	Magnetic Dual Direction Connector

NOVO 12SF 2.2 lbs. (1kg)

* 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	X	X	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	X	X	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

XRS-4

XRS-3

XR200

XR150

LiteX

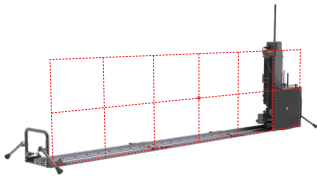|	Litex	XR150	XR200	XRS-3	XRS-4
KVP	120	150	150	270	370
Weight	5.6 lbs.(2.5kg)	5.9 lbs. (2.7kg)	10.7 lbs. (4.8kg)	11.8 lbs. (5.3kg)	18.3 lbs. (8.3kg)
Size	11.7" x 3.2" x 4.7" (29.9cm x 8.2cm x 12cm)	10.4'' x 3.5'' x 4.7'' (26.6cm x 9cm x 12.1cm)	10.7" x 4.3" x 5.8" (27.2cm x 10.8cm x 14.8cm)	14.2" x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

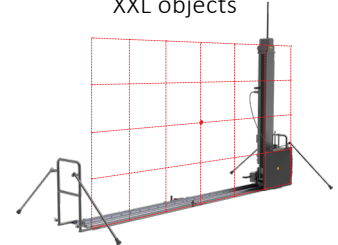### Folding Slider L

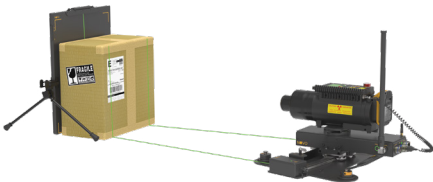Ideal for screening large objects

Elevated Mode

Folding Slider XXL

Super sized, ideal for screening XXL objects
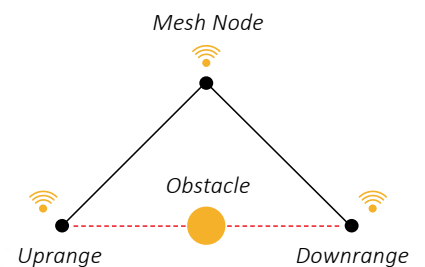
3D Arc

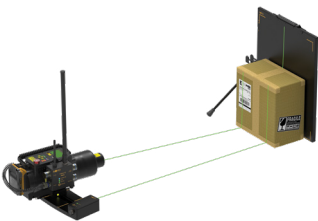3D automated imaging with exact X, Y, Z measurements

Additional Ranger Mesh Node

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

Mesh Node

Obstacle

Uprange

Downrange

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

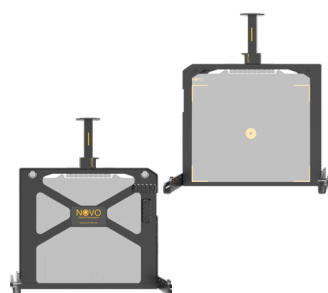### Lookout

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.