

PROUDLY SUPPLYING THE **NDT** INDUSTRY FOR OVER **40 YEARS**



DISCOVERY III SYSTEM

TOP OF THE LINE SYSTEM IN RUGGED PELICAN CASE

JME
ADVANCED INSPECTION SYSTEMS

IN ASSOCIATION WITH

NOVO
Digital Radiography

+44 (0)1502 500969

JME Ltd. Electron House, Old Nelson Street
Lowestoft, Suffolk NR32 1EQ UNITED KINGDOM

www.jme.co.uk



jme-advanced-inspection-systems



/JMElimited

System Overview



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



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

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



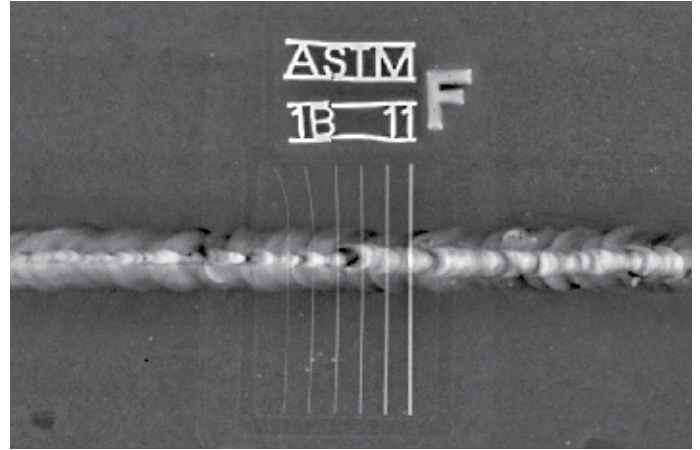
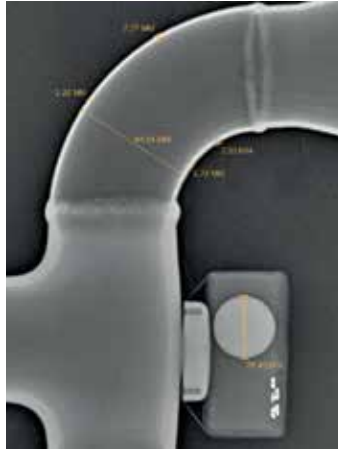
NOVO Touch Pro Software

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 and Automatic Image Stitching
- Averaging (Frame Integration)
- Image Statistics
- 1600% Zoom
- Annotations - Text, highlight, arrows, etc. and many more...



Wall Thickness Measurements



Weld Quality Examination

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 and Communication Hub III

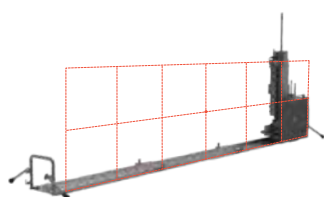
- Provides both power and data communication
- MIL-STD 38999 Connectors
- USB 3.0 Fast Data Ports – USB C, USB A
- HDMI Connection



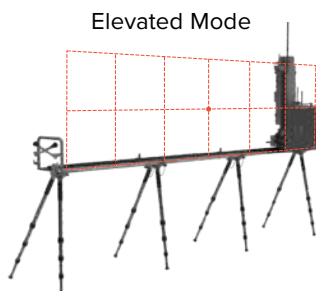


Folding Slider L

Ideal for screening large objects

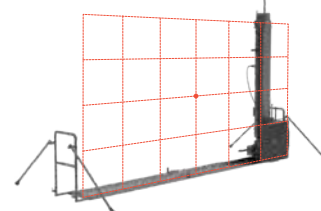


Elevated Mode



Folding Slider XXL

Super sized, ideal for screening XXL objects



3D Arc Mesh

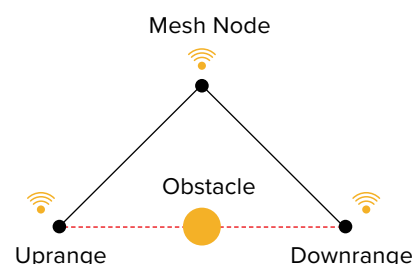
3D automated imaging with exact X, Y, Z measurements



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



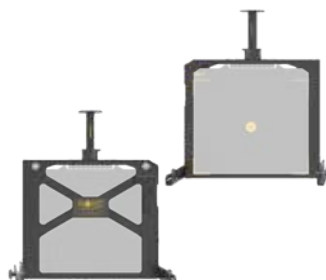
Wireless X-Ray

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



Robot Detector Frame

Lightweight, shock absorbing





JOSHUA LEECH
GLOBAL SALES MANAGER

EMAIL: joshua@jme.co.uk

MOBILE: +44 (0)7554 017445

PHONE: +44 (0)1502 500969



JAMES DENTON
REGIONAL SALES MANAGER
AMERICAS and AFRICA

EMAIL: james@jme.co.uk

MOBILE: +44 (0)7775 507553

PHONE: +44 (0)1502 500969



BRIAN PATTERSON
REGIONAL SALES MANAGER
MENA, ASIA and OCEANIA

EMAIL: brian@jme.co.uk

MOBILE: +44 (0)7741 311613

PHONE: +44 (0)1502 500969



MARK HUGGINS
REGIONAL SALES MANAGER
UK and EUROPE

EMAIL: mark.huggins@jme.co.uk

MOBILE: +44 (0)7585 610095

PHONE: +44 (0)1502 500969



PHILIP WHITE
SALES SUPPORT

EMAIL: philip@jme.co.uk

MOBILE: +44 (0)7584 242865

PHONE: +44 (0)1502 500969



