



James E. White  
Chief of Police

D.P.D. 568 (rev. 06/21)

# INTER-OFFICE MEMORANDUM PROFESSIONAL DEVELOPMENT BUREAU

Date: July 17, 2024

To: Chief of Police James E. White, (Through Channels)

Subject: **SUBMISSION OF SPECIFICATION REPORT – NOVO DIGITAL RADIOGRAPHY TECHNOLOGY**

From: Deputy Chief Mark Bliss, Professional Development Bureau

Attached for your review and approval is the Specification Report for the NOVO Digital Radiography Technology. This report is to comply with the Community Input Over Government Surveillance (CIOGS) Ordinance. The Specification Report has been reviewed and approved by Director Robert Millender, of the Department of Innovation and Technology (Dolt) and Director Stephen Lamoreaux of Crime Data Analytics. This report needs approval from the Chief of Police and the Board of Police Commissioners before submission for a public hearing on the matter.

**MARK BLISS**  
Deputy Chief  
Professional Development Bureau

- ... report – NOVO Digital Radiography Technology
- 2. Manual Directive 102.2 - Bias-Based Policing
  - 3. Manual Directive 101.11 - Record Retention Schedule
  - 4. Manual Directive 101.12 – Data Sharing, Retention and Dissemination
  - 5. Portable X-Ray System Sheet

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## Specification Report – NOVO Digital Radiography Expansion

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**Sec. 17-5-453: NOVO Digital Radiography Technology - Expansion Specification Reports.**

- (a) The Police Department certifies that the information contained in this document reflects the complete and accurate proposed use of the surveillance technology.
- (b) This report has been approved by the Chief of Police and received the approval of the Board of Police Commissioners on \_\_\_\_\_.

(1) **Description:** Information describing the surveillance technology and its capabilities.

- The Detroit Police Department (DPD) seeks an upgrade for the X-Ray technology, NOVO Digital Radiography, to assist in sensitive investigations. This technology produces digital x-ray images of suspicious packages, allowing the operator to view the contents.
- The upgrade will allow for the current system to be a more portable product and improve the current range of communication amongst the components. The current system uses the Genie digital view enhancement system which allows for better and clear images of the contents of the package. Pairing the Genie system with the Mesh system, allows for a greater distance between Bomb Technician and suspicious packages.

(2) **Purpose:** Any specific purpose the surveillance technology is intended to advance:

- The purpose of the Add-ons to the NOVO Digital Radiography provides the ability to image a suspicious package. The Mesh System will allow for a larger range to exist between package and bomb technician. Therefore, the products work preventatively to ensure the safety of the Detroit Police Department Bomb Squad and expand the safety of citizens.

(3) **Deployment:** If the surveillance technology will not be uniformly deployed or targeted throughout the City, what factors will be used to determine where the technology is deployed or targeted.

- The Detroit Police Department will deploy the x-ray machine when there is a situation as described above, to keep the community, its residents, and first responders safe. Additionally, the x-ray technology can be used at large events as a layer of security.

(4) **Fiscal Impact:** The fiscal impact of the surveillance technology.

- The cost of the upgrade of the x-ray system is \$58,733.50, covered, in full, by Homeland Security funds at no cost to the City of Detroit. This is a one-time fixed cost for the upgrade and there are no additional costs.

(5) **Civil Rights / Liberties Impacts:** An assessment identifying with specificity;

(a) **Any potential adverse impacts the surveillance technology, if deployed, might have on civil liberties and civil rights; and**

- X-Ray technology does not intrude upon any constitutionally protected areas as it involves examining suspicious packages.
- Misuse of the x-ray technology or any information collected is strictly prohibited.

(b) **What specific, affirmative measures will be implemented to safeguard the public from the potential adverse impacts identified in this section.**

- The Police Department will strictly enforce its policies pertaining to the use of this x-ray technology and any information obtained from the technology.

(6) **Authorized use:** A complete description of the purpose and intended uses of the surveillance technology, including any uses that will be expressly prohibited.

The purpose and intended uses of the proposed technology includes:

- Preventing bomb detonation through increased detection; and
- Other legitimate law enforcement purposes.

The following uses of the technology are expressly prohibited:

- Traffic enforcement;
- Enforcement of civil laws, including immigration laws; or
- Use of the video technology for purposes other than legitimate law enforcement activities.

(7) **Data Collection:**

(a) **What types of surveillance data will be collected, captured, recorded, intercepted, or retained by the surveillance technology;**

- The NOVO Digital Radiography expansion captures images of suspicious packages.

(b) **What surveillance data may be inadvertently collected during the authorized uses of the surveillance technology, and what measures will be taken to minimize the inadvertent collection of data; and**

- After careful consideration, the DPD cannot determine any instance or situation where legally protected information may be collected from the proposed technology.

(c) **How inadvertently collected surveillance data will be expeditiously identified and deleted.**

- After careful consideration, the DPD cannot determine any instance or situation where legally protected information may be collected from the proposed technology.
- In the event protected information is collected through the misuse of the technology, the Police Department will cause for its deletion as soon as feasible.
- Upon identifying that protected information has been collected through the misuse of technology, DPD will report the following to the Board of Police Commissioners within 15 days of its discovery:

- i. Type of information collected;
- ii. Date range of the collection;
- iii. Extent of impact (i.e., how many person's information was collected);
- iv. DPD members who had access to the information; and
- v. Date and method of destruction, once it has been destroyed.

(8) **Data Protection:** What safeguards will be used to protect surveillance data from unauthorized access, including encryption and access control mechanisms.

- The Detroit Police Department will comply with the State of Michigan Criminal Justice Information System (CJIS) regulations and other applicable standards and policy to protect data.

Security safeguards will cover any type of medium (printed or electronic) or technology (e.g. physical servers, virtual machines, and mobile devices) used in a work-related Department activity.

- (9) **Data Retention:** Insofar as the privacy of the public can be severely compromised by the long-term storage of mass surveillance data, what rules and procedures will govern the retention of surveillance data, including those governing:

*(a) The limited time period, if any, surveillance data will be retained. Such information shall include a statement explaining why the designated retention period is no greater than that which is absolutely necessary to achieve the specific purpose(s) enumerated in the Surveillance Technology Specification Report;*

- The DPD will adhere to its Data Retention Policy (101.12), which matches the requirements set forth in the corresponding state statute.

*(b) The specific conditions that must be met to retain surveillance data beyond the retention period identified pursuant to Subsection (b)(9)(a) of this section; and*

- Data will not be retained beyond the retention period except where such information constitutes evidence of a crime related to an open case or a close case where prosecution and / or appeals remain pending.

*(c) The process utilized to regularly delete surveillance data after the retention period stated in Subsection (b)(9)(a) of this section has elapsed and the auditing procedures that will be implemented to ensure data is not improperly retained.*

- The Police Departments policies and procedures requires for the retention of images for up to 3 years. If the image is linked to a misdemeanor, the retention extends to 7 years and felony extends to 20 years. Recordings that contain evidence of incidents are retained until the case is solved, closed, and litigation ends.

- (10) **Surveillance Data Sharing:** If a City department is seeking authorization to share access to surveillance technology or surveillance data with any other governmental agencies, departments, bureaus, divisions, or units, or non-governmental persons or entities in the absence of a judicial warrant or other legal mandate, it shall detail:

*(a) Which governmental agencies, departments, bureaus, divisions, or units, or non-governmental persons or entities will be approved for:*

- Surveillance technology sharing to the governmental agency, department, bureau, division, or unit, or non-governmental person or entity, and*
- Surveillance technology sharing from the governmental agency, department, bureau, division, or unit, or non-governmental person or entity, and*
- Surveillance data sharing to the governmental agency, department, bureau, division, or unit, or non-governmental person or entity;*

*(b) Where applicable, the type of information of surveillance data that may be disclosed to the governmental agency, department, bureau, division, or unit, or non-governmental person or entity; and*

(c) *Where applicable, any safeguards or restrictions that will be imposed on the surveillance technology or data receiving governmental agency, department, bureau, division, or unit, or non-governmental person or entity regarding the use or dissemination of the provided surveillance technology or data;*

- DPD has a Data Sharing Policy (101.12) that sets forth the standard the Department must follow when sharing data.
- DPD will also comply with any constitutional applicable law and Criminal Justice Information System (CJIS) policies.

(11) ***Demands for Access to Surveillance Data:*** What legal standard must be met by government entities or third parties seeking or demanding access to surveillance data.

- The Police Department will only share information with government entities or third parties in accordance with a duly authorized data sharing agreement. Under no circumstances is a member of the Police Department authorized to share information for the purpose of assessing immigration status or enforcing immigrations laws.

(12) ***Auditing and Oversight:*** What mechanisms will be implemented to ensure the Surveillance Technology Specification Report is followed, including what independent persons or entities will be given oversight authority, if and how regular audits will be conducted, and in the case of the Police Department, also how the Board of Police Commissioners will be involved in the auditing and oversight process.

- The Detroit Police Department will include the NOVO Digital Radiography use in the annual Surveillance Technology and Surveillance Use Reports.

(13) ***Training:*** Would specialized training be required in connection with the use of the surveillance technology.

- All members will be vetted, CJIS cleared, and trained in all the technology that they are assigned to use related to x-ray technology. In addition, members are required to comply with Record Retention (101.11), Data Sharing (101.12), Bias-Based Policing (102.2) and all other policies as it relates to technology and standards of conduct.

(14) ***Complaints:*** What procedures will allow members of the public to register complaints or concerns, or submit questions about the deployment or use of a specific surveillance technology, and how the City department will ensure each question and complaint is responded to in a timely manner.

- The policies and procedures of the Detroit Police Department require that upon receiving notice of the desire to file a complaint, a member of the Department must involve a supervisor as soon as possible to receive the complaint. In addition, any citizen may lodge a complaint directly with the Office of the Chief Investigator. Questions regarding the technology may be directed to the Office of the Chief of Police.

The Leaders in Portable X-Ray Systems

## Tactical III System



**NOVO Mesh System -**  
Unmatched Wireless Performance



### Compact Backpack System for Tactical Missions

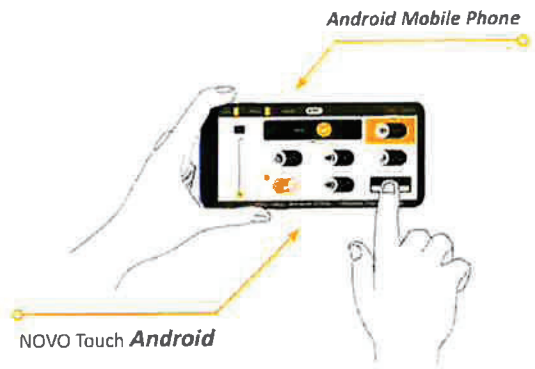
- 15WS Detector - only 3.5 lbs. (1.6kg) with battery
- Wired & wireless operation modes
- 10" 1500 NIT touch handheld tablet / Android phone
- MIL-DTL 38999 connectors
- Supports multi-tablet control & display
- 40m of Cable on a lightweight reel
- Operates with NOVO Touch Software
- Compatible with XTK

# System Overview

## Windows Option:



## Android Mobile Option:



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

The logo features a stylized bird or dragon-like creature in a circular frame. The text below it highlights the 'Improved Genie Algorithm' which 'pulls out minute details 4 times faster!'.



## Wired Operation:

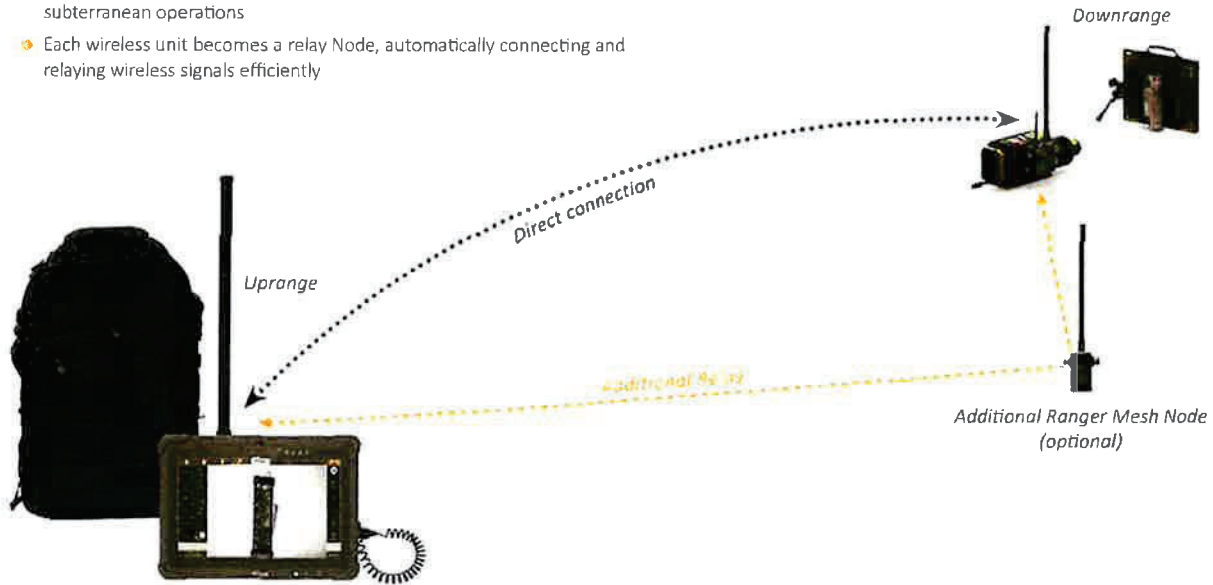




# NOVO Wireless Mesh Technology

Unique technology providing unmatched wireless performance:

- Strong signal stability in crowded RF environments, especially ideal for urban scenarios
- Up to 0.6 miles (1000m) LOS between Nodes, longer range when elevating on tripods - up to 1.8 miles (3km)
- 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 Options



NOVO 12SF  
2.2 lbs. (1kg)



NOVO 15WS  
3.5 lbs. (1.6kg)

Detector Model	NOVO 12SF	NOVO 15WS
Steel Penetration *	3.5" (90mm)	3.5" (90mm)
Detector Weight (Including Battery)	2.2 lbs. (1kg)	3.5 lbs. (1.6kg)
Detector Load Proof	440 lbs. (200kg)	660 lbs. (300kg)
Detector Imaging Area	6.75" x 10.1" (17.2cm x 25.8cm)	9.1" x 11.2" (23.1cm x 28.4cm)
Detector Size	7.7" x 11.1" (19.5cm x 28.2cm)	10.6" x 12.9" (26.9cm x 32.9cm)
Active Area (Imaging Area / Detector Size)	80% Active Area	74% Active Area
Detector Drop Test	40" (100cm)	40" (100cm)
Detector Thickness	0.6" (15mm)	0.6" (15.6mm)
Bit Depth	16 bit latest generation	16 bit latest generation
Connector	Magnetic Dual Direction Connector	Magnetic Dual Direction Connector

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



