



TECHNICAL SPECIFICATIONS

I. INTRODUCTION

- A. The purpose of this Invitation for Bid (IFB) is to purchase concealed weapons detectors and high speed automated checkpoint x-ray systems from a qualified and experienced vendor, who is also able to provide installation service, technical support, software maintenance, and equipment maintenance for offered equipment.

II. BACKGROUND

- A. The Tarrant County Sheriff's Office requires one (1) dual lane concealed weapons detector, one (1) single lane concealed weapons detectors, and one (1) high speed automated checkpoint x-ray systems.
- B. The equipment is being installed at a location in Tarrant County.
- C. These units are replacing older technology machines.
- D. Tarrant County intends to make one immediate purchase of one (1) dual lane concealed weapons detector, and one (1) high speed automated checkpoint x-ray systems to be delivered at Tarrant County Tim Curry Criminal Justice Center.
- E. Tarrant County intends to make one future purchase of one (1) single lane concealed weapons detector, and one (1) high speed automated checkpoint x-ray systems to be delivered at Tarrant County Family Law Center.

III. EQUIPMENT REQUIREMENTS: CONCEALED WEAPONS DETECTORS AND HIGH SPEED AUTOMATED CHECKPOINT X-RAY SYSTEMS

- A. Concealed Weapons Detectors - Walk between detection system designed to increase foot traffic through checkpoints.
 - 1. Capable of passing through up to 2000 people per hour per lane.
 - 2. Two and three towers with wide lanes between, capable of easily passing wheelchairs and other similar mobility assistance devices.
 - a. Minimum lane width of 40 inches at floor level.
 - b. Maximum mat height of $\frac{3}{4}$ inches from floor.
 - 3. Capable of being easily moved without requiring specialized tools or extensive manpower.
 - a. Must be able to easily set up and take down, or moved by two people.
 - b. Capable of self-calibration after moves and not require technician to recalibrate.
 - 4. High sensitivity to detect small threat items inside pockets, bags, briefcases, backpacks, or other containers holding multiple items.



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- a. Must be able to detect firearms and other threat items such as edged weapons.
 - b. Must be able to detect small knives and edged weapons with blades 2 inches at a minimum.
 - c. AI search capability that can detect and discriminate between threat items as well as non-threat items, to include, but are not limited to, keys, phones, watches, belt buckles, etc.
5. Capable of being operated via A/C and battery power.
 - a. Removable and rechargeable battery packs to allow continued operation in event of power outage.
 - b. Must be able to operate on A/C power with battery installed.
 - c. Strongly prefer capability of towers keeping battery charged while operating under A/C power.
 - d. External battery charger must be capable of charging multiple batteries simultaneously.
6. Baggage Scanner Integration
 - a. Ability to integrate with a stand alone baggage scanner.
 - b. Baggage scanner must operate on same interface as walk through scanners.
7. Monitoring system
 - a. A handheld, portable tablet that provides immediate image review of people and items traveling through system.
 - i. Tablet capable of operating 8 plus hours on fully charged battery.
 - ii. Prefer removeable battery with external charger capable of simultaneously charging multiple tablet batteries.
 - iii. Tablet must have floor stand or mount that allows hands free operation.
 - b. Tablet can review walkthrough or baggage scanner imaging.
 - c. Tablet must be on an independent closed network that does not require connection to Tarrant County's network.
8. Reporting abilities
 - a. A handheld, portable tablet that provides immediate image review to accurately pinpoint the location of a threat on a person or within the items listed above.



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- b. Capability to stream live footage remotely from a central location, with all recordings stored on a server for a minimum of 45 days to ensure retrieval for court purposes in the event of enforcement action.
 - i. Ability for users to initiate a remote monitoring request from the device, enabling a live watch session.
 - ii. Ability for users to initiate a remote assistance request from tablet.
 - iii. Bi-directional communication between checkpoint and system users, including the capability for supervision to communicate through the checkpoint device.
- B. High Speed Automated Checkpoint X-Ray Systems - Vendors must provide X-Ray systems that include the following specifications at a minimum:
 - 1. Autonomous AI based search capability that can detect and discriminate between threat items as well as nonthreat items (keys, phones, watches, belt buckles, etc.).
 - 2. High throughput minimizing delays associated with baggage scanning.
 - 3. Capable of alerting operators of threat items.
 - a. Visual indicators on machine itself.
 - b. Alerts through the tablet showing bag with possible threat items and X-ray imagery displaying threat item(s).
 - 4. Must integrate with walk through Concealed Weapons Detector System.
 - 5. Must operate on same tablet interface as walk through Concealed Weapons Detector System.
 - 6. Must operate on same wireless network as walk through Concealed Weapon Detector System. Must be on an independent closed network that does not require connection to Tarrant County's network.
 - 7. Tunnel shrouds or similar devices mounted on each Tunnel Exit Opening capable of preventing public side access to bags identified for secondary inspection.
 - 8. X-ray Resolution/Penetration of 38 American Wire Gauge Steel standard.
 - 9. Storage capacity of 20,000 images.
 - 10. Concealed weapons detection ability.



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11. Explosives scan ability.
12. Roller Tables – Vendors must provide two (2) roller tables, one (1) for infeed and one (1) for outfeed that conform to the following specifications at a minimum:
 - a. Infeed roller table - Minimum 2 feet in length
 - b. Outfeed roller table – Minimum 3 feet in length, as to extend the recovery area for baggage that has passed screening.
 - c. Seamlessly integrates into High Speed Automated Checkpoint X-Ray System
 - d. Constructed of steel
 - e. Capable of supporting a minimum of 300 pounds

IV. DELIVERY

- A. All delivery/freight/tariff/travel/fuel/material/service call costs to be included in the unit pricing.
- B. Delivery to a location in Tarrant County.

V. INSTALLATION

- A. Vendors must install Concealed Weapons Detectors and High Speed Automated Checkpoint X-Ray Systems at requested location(s).
- B. Vendor installed Concealed Weapons Detectors and High Speed Automated Checkpoint X-Ray Systems must be fully operational at the conclusion of installation.
- C. Vendors must install Concealed Weapons Detectors and High Speed Automated Checkpoint X-Ray Systems to the full satisfaction of Tarrant County, and must return and complete installation services until Tarrant County is fully satisfied.
- D. Vendors must remove all debris (e.g. packing material, excess parts) from the Concealed Weapons Detectors and High Speed Automated Checkpoint X-Ray Systems installation site at the conclusion of the installation.

VI. TRAINING

- A. Vendor must be able to provide training on system operation on-site at a Tarrant County Facility.
 1. Train-the-trainer training.
 - a. Include copies of any vendor written training material.
 2. Minimum of 10 employees/field training deputies trained.



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VII. MAINTENANCE, VENDOR MUST SUPPLY ANNUAL MAINTENANCE FOR CONCEALED WEAPONS DETECTORS AND HIGH SPEED AUTOMATED CHECKPOINT X-RAY SYSTEMS THAT INCLUDE THE FOLLOWING SPECIFICATIONS AT A MINIMUM:

- A. Twenty-four-hours-a-day, seven-days-a-week emergency repair services included in annual price.
- B. Technician is expected to respond by phone within 24 business hours.
- C. Technician is expected to be on site to perform repairs within one business day.
- D. All repair parts included in annual price.
- E. All related freight expenses included in annual price.
- F. All service labor included in annual price.
- G. All travel, lodging, air-fare, and per diem expenses included in annual price.
- H. One complete annual preventative maintenance inspection (per manufacturer guidelines) included in annual price.
- I. One annual radiation safety survey and preparation of performance report per x-ray system included in annual price.

VIII. SOFTWARE SUBSCRIPTION AND TECHNICAL SUPPORT, VENDOR MUST SUPPLY ANNUAL SOFTWARE SUBSCRIPTION AND TECHNICAL SUPPORT FOR CONCEALED WEAPONS DETECTORS AND HIGH SPEED AUTOMATED CHECKPOINT X-RAY SYSTEMS THAT INCLUDE THE FOLLOWING SPECIFICATIONS AT A MINIMUM:

- A. Technical support phone number must be available twenty-four-hours-a-day, seven-days-a-week for emergency service included in annual price.
- B. Technician is expected to respond by phone within 24 business hours.
- C. Technician is expected to be on site to perform repairs within one business day.
- D. All repair parts included in annual price.
- E. All related freight expenses included in annual price.
- F. All service labor included in annual price.
- G. All travel, lodging, air-fare, and per diem expenses included in annual price.
- H. One complete annual preventative maintenance inspection (per manufacturer guidelines) included in annual price.
- I. One annual radiation safety survey and preparation of performance report per x-ray system included in annual price.



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IX. DEMONSTRATIONS

- A. Demonstrations may be requested in order to confirm product compliance. The exact product offered for this RFI must be available by the vendor for inspection at requested vendor demonstrations.
- B. Demonstrations will take place on-site at a Tarrant County Facility during normal business hours and will be scheduled if needed to determine product compliance.
- C. Demonstrations will be conducted at no cost to Tarrant County.

X. INVOICING

- A. Payment for ordering, delivery and installation of all products will be made in accordance with the Tarrant County Purchasing Department's regular payment schedule. Tarrant County is not required to pay deposits.