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Header 3

List View

General Information | Contact | Default Values | Discount | Document Information

Procurement Folder: 517319

SO Doc Code: CRFQ

Procurement Type: Central Contract - Fixed Amt

SO Dept: 0506

Vendor ID: VS0000017770

SO Doc ID: CME1900000002

Legal Name: Advanced Detection Solutions, LLC

Published Date: 12/12/18

Alias/DBA: ADS

Close Date: 12/28/18

Total Bid: \$458,000.00

Close Time: 13:30

Response Date: 12/24/2018

Status: Closed

Response Time: 13:13

Solicitation Description: Forensic Critical Imaging System

Total of Header Attachments: 3

Total of All Attachments: 3



Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

**State of West Virginia
 Solicitation Response**

Proc Folder : 517319
Solicitation Description : Forensic Critical Imaging System
Proc Type : Central Contract - Fixed Amt

Date issued	Solicitation Closes	Solicitation Response	Version
	2018-12-28 13:30:00	SR 0506 ESR12211800000003012	1

VENDOR
VS0000017770 Advanced Detection Solutions, LLC ADS

Solicitation Number: CRFQ 0506 CME1900000002

Total Bid : \$458,000.00 **Response Date:** 2018-12-24 **Response Time:** 13:13:17

Comments:

FOR INFORMATION CONTACT THE BUYER
 April E Battle
 (304) 558-0067
 april.e.battle@wv.gov

Signature on File	FEIN #	DATE
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All offers subject to all terms and conditions contained in this solicitation

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	Forensic Critical Imaging System	1.00000	EA	\$350,000.000000	\$350,000.00

Comm Code	Manufacturer	Specification	Model #
42261900			

Extended Description : Forensic Critical Imaging System

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
2	Smart Trolley/Gurney	1.00000	EA	\$0.000000	\$0.00

Comm Code	Manufacturer	Specification	Model #
42261900			

Extended Description : Smart Trolley/Gurney

Comments: Trolley price is included in imaging system price

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
3	System Console	1.00000	EA	\$0.000000	\$0.00

Comm Code	Manufacturer	Specification	Model #
42261900			

Extended Description : System Console

Comments: System console price is included in imaging system price

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
4	Radiation Leakage	1.00000	EA	\$32,000.000000	\$32,000.00

Comm Code	Manufacturer	Specification	Model #
42261900			

Extended Description : Radiation Leakage

Comments: Protective cabin to allow installation in any room. No radiology room required. Also allows to place the imaging system inside a trailer for disaster response

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
5	Training	1.00000	EA	\$0.000000	\$0.00

Comm Code	Manufacturer	Specification	Model #
86132101			

Extended Description : Training

Comments: Training price is included with imaging system price

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
6	One Year Support and Maintenance	1.00000	YR	\$0.000000	\$0.00

Comm Code	Manufacturer	Specification	Model #
81101706			

Extended Description : One Year Support and Maintenance

Comments: Included in imaging system price

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
7	Optional Renewal Year 1 - One Year Support and Maintenance	1.00000	YR	\$24,000.000000	\$24,000.00

Comm Code	Manufacturer	Specification	Model #
81101706			

Extended Description : Optional Renewal Year 1 - One Year Support and Maintenance

Comments: Warranty is valid as of day of renewal

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
8	Optional Renewal Year 2 - One Year Support and Maintenance	1.00000	YR	\$24,000.000000	\$24,000.00

Comm Code	Manufacturer	Specification	Model #
81101706			

Extended Description :	Optional Renewal Year 2 - One Year Support and Maintenance
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Comments: Warranty is valid as of day of renewal

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
9	Optional Renewal Year 3 - One Year Support and Maintenance	1.00000	YR	\$28,000.000000	\$28,000.00

Comm Code	Manufacturer	Specification	Model #
81101706			

Extended Description :	Optional Renewal Year 3 - One Year Support and Maintenance
-------------------------------	--

Comments: Warranty is valid as of day of renewal

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
10	Shipping/Delivery/Setup	1.00000	EA	\$0.000000	\$0.00

Comm Code	Manufacturer	Specification	Model #
78121603			

Extended Description :	Shipping/Delivery/Setup
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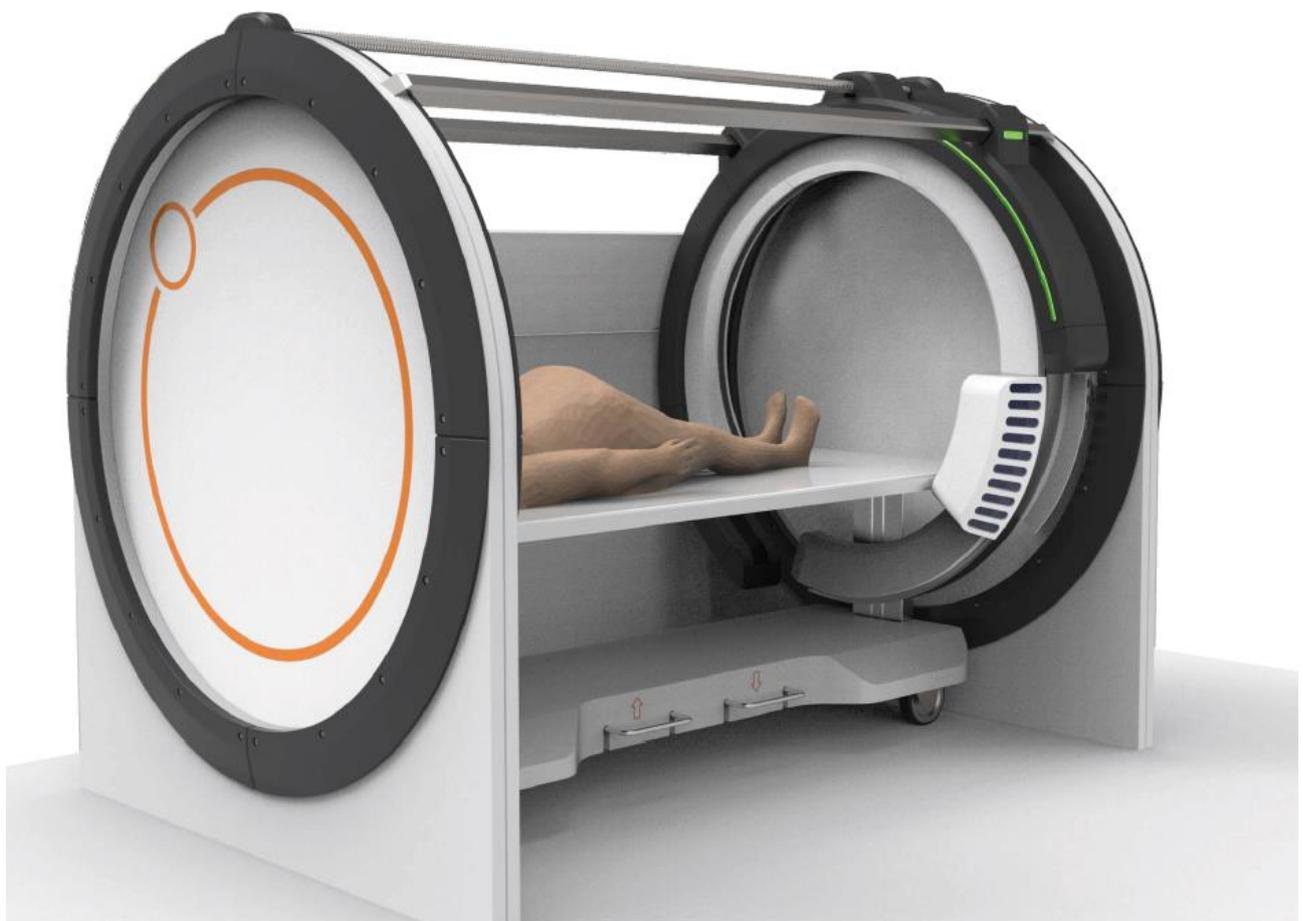
Comments: Shipping, delivery, setup price included in imaging system price

BROCHURE

FOBOS™

Forensic Body Scanner

Document index: 02NDT29/10/18EN



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1. INTENDED USE

FOBOS™ (Forensic Body Scanner) is a stationary diagnostic digital radiology forensic system. The system is designed to acquire whole-body digital X-Ray images of bone structures and soft tissues. The system allows to capture of both AP and lateral scans.

FOBOS™ is a task-oriented system designed to be used in morgues and forensic centers.

WARNING! FOBOS is not to be used on living humans or animals.

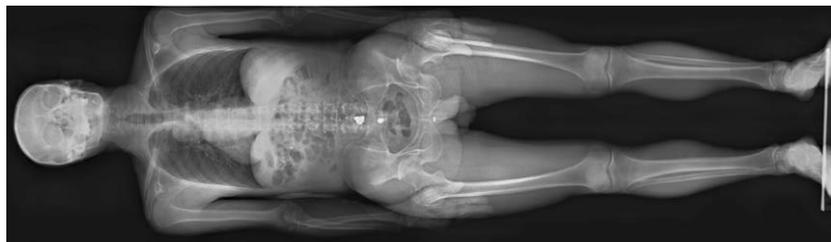


Figure 1. Sample of Acquired Full-body Image

FOBOS™ is helpful for determining: Bone and joint injuries; Presence and location of foreign objects inside the body; Location and dissemination of pneumothorax; Fluid presence in the chest cavity; Indirect features to find out the approximate age of the whole corpse or its parts (for dismembered ones); Indirect features to establish the identity of the unknown corpses; Presence of metal particles from gunshot wounds; Inlet and outlets of gunshot damages to bones; Newborn maturity and live-born fact establishment; Air embolism presence; Lesion differentiation by special-purpose bullets; The timing of the tubular bone injury.

2. GENERAL VIEW



Figure 2. System general view

3. KEY FEATURES AND ADVANTAGES

Automatic acquisition of full-body overview images.	The System's design allows for automatic full-body images without moving or touching the body.
Motorized drives	Automatic moving parts allows for effective image capture thereby increasing the productivity and reliability of the scan.
Version with X-Ray protection shield (the option)	Radiation protection cabin allows the system to be safely used in any location/room.
Function «Smart filters» Function of local contrast provides	<p>“Smart Filters” allows for improved visualization of the body, thus creating conditions for more reliable detection of injuries and anomalies.</p> <p>The filters provide:</p> <ul style="list-style-type: none"> • Reduce noise from X-Ray images; • Automatic contrast adjustments of X-Ray images.
Oblique views	FOBOS™ can create AP scan (0°) and Lateral scan (90°).
X-ray image of high quality	Limit resolution of the image is 2,5 line pairs per mm.
High penetration capability	Critical components of the system (X-Ray generator and detector) provide create research the big bodies (up to 250 kg). Penetration possibility by Al – min.300 mm, and by H ₂ O - 800 mm;
Low maintenance costs	<p>Due to advanced technology, the maintenance cost is significantly reduced. Critical components such as digital X-Ray detector and X-Ray generator used in the System have a high level of reliability, which minimizes system's downtime:</p> <ul style="list-style-type: none"> • Detectors without scintillator are not subject to the effect of degradation • X-Ray source can operate in 24/7 mode for more than 8000 hours without any service • The adjustable table provides an additional advantage for loading bodies from carts.

4. PRINCIPLE OF OPERATION

FOBOS works on a principle of a scanning system. Scanning is performed by moving a fan-shaped X-Ray beam along the body (see Figure 3).

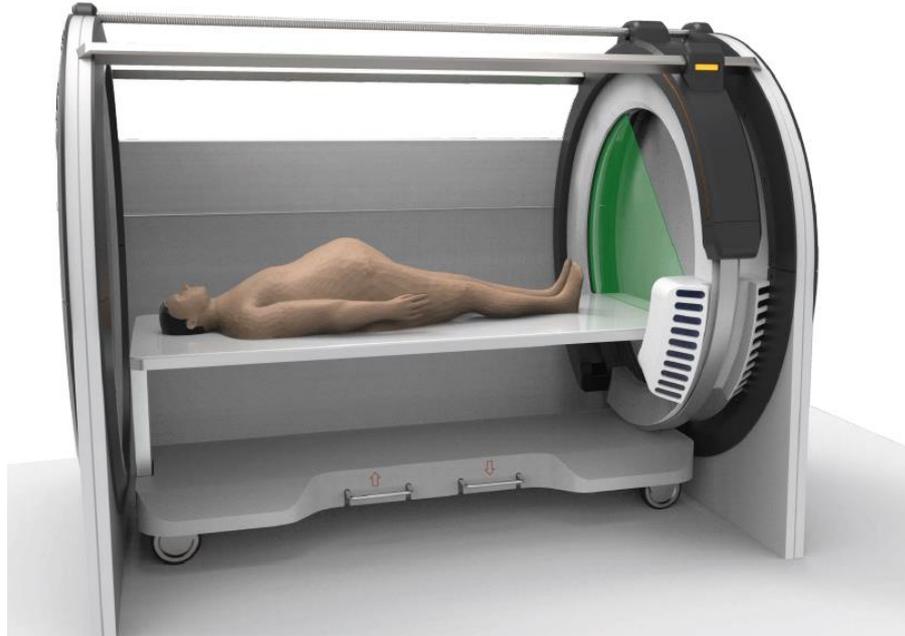
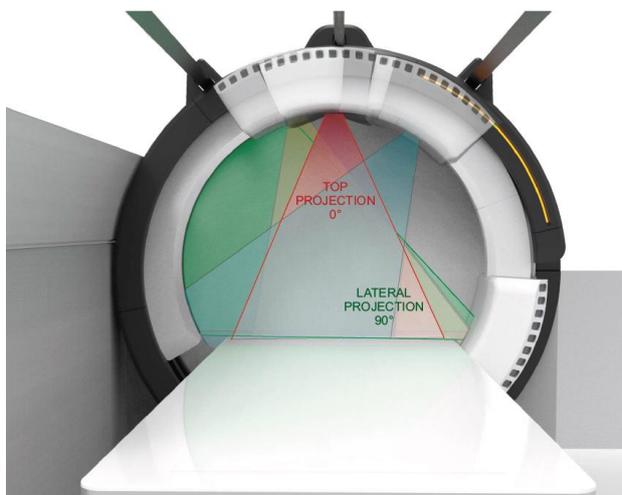


Figure 3. Scanning principle

When scanning is activated the x-ray source and detectors move (from head to toe) along the full length of the body

The special «density smoothing» digital image algorithms allows the acquisition of high diagnostic quality images, where both bone structure and soft tissues are well defined (on the image) and which greatly simplifies their interpretation.



To obtain oblique views the design of FOBOS™ makes it possible to acquire images of the body at AP and lateral scans. The System is equipped with a motorized system to rotate the X-Ray tube relative to longitudinal axis of the body (see Figure 4). Control, movement control and indication of the rotation angle is carried out on the operator control console (hereinafter as AWS). The acquisition principle of full-body large-size images is similar to the one used for obtaining the frontal views.

Figure 4. Lateral and oblique View Acquisition Principle

5. SYSTEM DESCRIPTION

5.1 X-Ray detector and image quality

The use of direct photon counting detectors with TDS technology (registration of radiation photons in accumulation regime) allow to:

- Remove background noise to help improv image quality;
- Take absolutely linear dependency of the signal level on the intensity of X-Ray radiation.

More detailed technical specification of the detector is given in section 7.5

Image quality:

- Penetration possibility by Al – min.300 mm, and by H₂O 800 mm;
- Contrast sensitivity – min. 1,2 %;
- Limit resolution – min. 2,5 line per mm.

5.2 X-Ray source

Unlike traditional systems where low resources tubes are used, FOBOS™ uses X-ray tube type glass. X-ray tube do not have any rotating parts. This makes it possible to significantly increase the reliability of the system as a whole and extend the life of the tube.

The X-Ray tube can works on high anode voltage (200 kV) that provides high penetrating power in the study of large bodies (up to 250 kg).

More detailed the technical specification is described in section 7.4

5.3 X-Ray Cart

The cart is designed for great stability and longevity. The x-ray table surface is made of solid translucent material to reduce radiation scatter and extend the life of the x-ray tubes. The cart can be used for transporting bodies, (up to 550 lbs.), from storage place to FOBOS™.

The table height can be raised and lowered to allow for easy body transfer between two carts.

More detailed technical specification is given in sections 7.2, 7.3

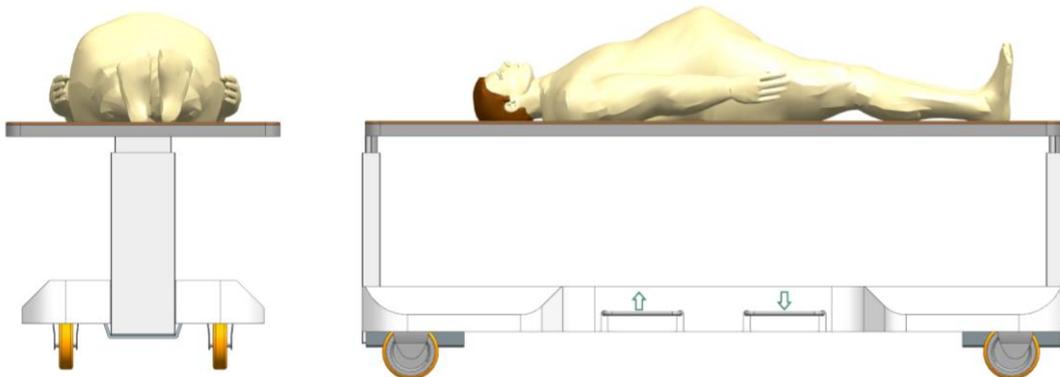


Figure 5. Cart

5.4 Acquisition Workstation (Operator's AWS)

Operator's AWS controls various system's operation such as: acquiring X-Ray images, reviewing proper image capture and forwarding images to Forensic's AWS (Analysis workstation).

Operator's AWS is based on PC operating under both the Windows 10 operating system and a set of special programs.

To provide stable PC operation, an interruptible power supply unit is provided along with Operator's AWS (further referred to as UPS).

Specialized software, specific to the Operator's AWS, provides the following functionalities:

- Registration of body vital information, (name, height, weight, DOB, Case number, etc.);
- Entering information about the operator;
- Setting the required exposure parameters;
- Displaying the relevant message upon X-Rays generating;
- Controlling the drives of the X-Ray detector motion mechanism and X-Ray tube assembly rotation mechanism;
- Forming an X-Ray image based on the data, obtained from the X-Ray detector;
- Saving X-Ray images to a designated file;
- Viewing X-Ray images;
- Using the settings functions: zooming, brightness/contrast, black/white color inversion, etc., when viewing the X-Ray images;
- Printing X-Ray images;
- Sending X-Ray images and information about patient to information storage sources (archive), PACS.

More detailed technical specifications are described in section 7.6.



Figure 6. View of software (section of research)

5.5 Analysis Workstation (Forensics's AWS)

Forensics's AWS is used for viewing and analyzing captured X-Ray images, for printing, for saving to the archive, and for generating reports on the studies performed.

Forensics's AWS is based, on a PC with Windows 10 operating system, and on a special program for performance study.

To provide a stable PC operation, a UPS is provided along with the AWS.

To obtain printed copies of X-Ray images, the Forensics's AWS is equipped with a printer.

An advanced software, with the following functionalities, allows for viewing and processing of digital X-Ray images:

- Receipt of X-Ray images;
- Viewing of any number of X-Ray images of the body simultaneously and controlling their location on the screen;
- Applying gamma-correction, brightness/contrast adjustment, zooming, color inversion and more when viewing X-Ray images of whole body and/or of body parts/sections;
- Applying text and graphic marks; highlighting area of interest of different forms on the images (point locator);
- Automatic calculation of statistic and geometric features of highlighted elements of X-Ray images: i.e. optical density, signal intensity (value in the point, average value, deviation from the average), closed figure area, line length, angle values;
- Generating and saving the study report (forensic report);
- Printing the study results and information about the body and pathologist.

More detailed the technical specification is described in section 7.7.

6. OPTIONS

6.1 X-Ray protective cabin

The FOBOS™ system has inherent protection from X-Rays. X-Ray protective cabin is designed to protect personnel from X-Rays. Due to this feature, the System is possible to be installed in any room/location.

The cabin is compliant with USFDA, Center for Devices and Radiation Health Standards for Cabinet X-ray Systems (21-CFR 1020.40).



Figure 7. X-Ray protective cabin (General Layouts)

6.2 Medical printer

6.2.1 AGFA Laser Imager

Designation	AGFA DRYSTAR AXYS
Film type	Blue Base Direct Thermal Media DRYSTAR DT2 B, 25 x 43 cm (9,84 x 16,93 in)
Formats	8 x 10, 10 x 12, 11 x 14, 14 x 14, 14x17 in
Capacity	14x17 in — 75 films per hour (48 sec. per 1 film) <ul style="list-style-type: none"> • 8 x 10 in - 3,828 x 4,958 pixels. 130 films per hour. 65 seconds – time for acquisition of the first image (8 x 10 in) • 10 x 12 in - 4,892 x 5,810 pixels
Resolution at printing	<ul style="list-style-type: none"> • Geometric: 508 dots per inch • Contrast resolution – 14 bit.

6.2.2 SONY Hybrid Graphic Medical Printer

Designation	SONY UP991AD
Film type	Paper / Thermal Print Media UPT-210BL (blue base)
Formats	187 x 138 / 249 x 188 mm (7,36 x 5,43 / 9,80 x 188 in)
Resolution at printing	Geometric: 325 dots per inch

6.3 Additional monitor

6.3.1 LG Monitor

Mark and model	LG 75SK8100
Size of screen	75 inch
Image quality	3840x2160 (4K UHD)

6.3.2 Samsung Monitor

Mark and model	Samsung UE75NU7172U
Size of screen	75 inch
Image quality	3840x2160 4K UHD

6.3.3 Medical 2MP Monochrome LCD Monitor

Mark and model	JVC MS25i2
Resolution (native)	1200 x 1600 (2 Megapixel)
Size of screen	21.3" (54.1 cm)
Display Area	324 mm x 432 mm
DICOM calibration	+

7. TECHNICAL INFORMATION

7.1 FOBOS overall dimensions

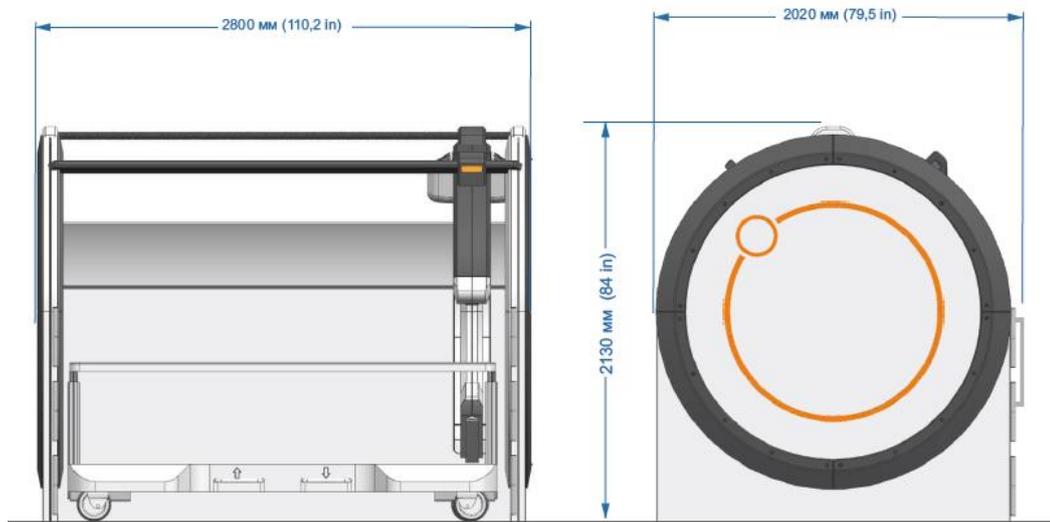


Figure 7. FOBOS general dimensions

- Width	2200 mm (79,5 in)
- Height	2130 mm (84 in)
- Length	Less than 2800 mm (110,2 in)
Weight	Less than 1800 Kg (3968,3 lbs)

7.2 Positioning system unit

X-Ray generator and detector unit drive system (longitudinal)	Automatic electric drive
X-Ray generator and detector unit drive system (round the body)	Automatic electric drive
Image table unit drive system (vertical)	Automatic electric drive
Scanning time:	
- AP scan	Less than 1 min
- Lateral scans	Less than 1 min

7.3 Radiographic table unit

Overall dimensions	
- Length	2320 ± 5 mm (91,3 ± 0,20 in)
- Width	940 ± 5 mm (37 ± 0,20 in)
- Height	800 ÷ 900 ± 5 mm (31,5 ÷ 35,4 ± 0,20 in)
Effective radiographic table area dimensions	
- Length	2100 ± 3 mm (82,68 ± 0,12 in)
- Width	870 ± 5 mm (34,25 ± 0,20 in)
Radiographic table height, maintenance position (body loading/unloading)	800 - 900 mm (31,50 - 35,43 in)
Body weight	Up to 250 kg (551,16 lbs)

7.4 X-Ray generator unit

Focal spot size	0,8 mm as per IEC60336
X-Ray Tube Type	Glass
X-Ray beam form	Fan beam: 90° x 10°
Voltage range	from 80 to 200 kV
Nominal power	500 W
Radiation beam direction	From top downward and diagonally for oblique views
Type of cooling system	Air

7.5 X-Ray detector unit

Detector type	Photon counting line detector
Pixel size	100 μm
MTF	80 % @ 2 lp/mm, 45 % @ 5lp/mm

7.6 Operator's AWS

Processor	Intel Core
Storage device	No more than 320 Gb
RAM	No more than 4 Gb
Monitor	No less than 19" LED
UPS to protect	No more than 650 VA
DVD-RW	SATA
Operating system	Windows 10
DICOM version	3.0
Storage device	No more than 320 Gb

7.7 Forensic's AWS

Processor	Intel Core
Storage device	1 TB
Monitor	No less than 19" LED
RAM	No more than 4 GB
UPS to protect	No more than 1000VA
DVD-RW	SATA
Operating system	Windows 10
Printer	Laser, A4

7.8 Requirements to power supply

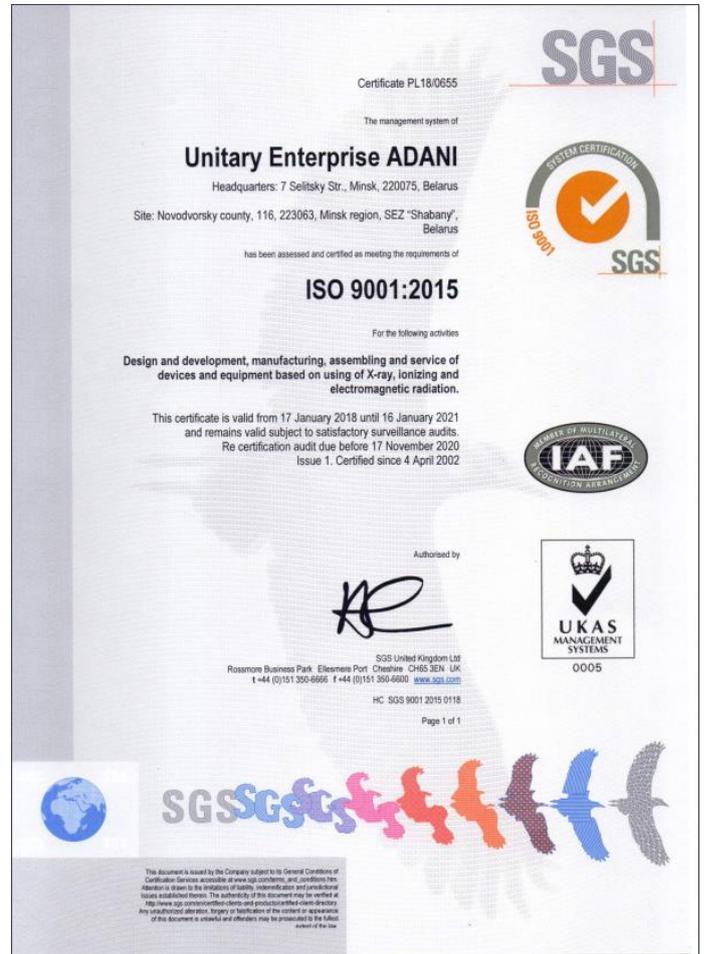
Mains, type	1-phase, earth and neutral connected and protective earthing
Voltage	110VAC ± 10%
Frequency	50 / 60 Hz
Required power	Less than 1 kW
Mains type	One-Phase

7.9 Environmental requirements

Operation:	
- Temperature range	0° to + 40 °C (32° to 104°F)
- Atmospheric pressure	84,0 to 106,7 kPa (630-800 mm Hg)
- Max. Relative humidity (at + 20 °C)	Up to 90%, non condensing
Transportation:	
- Temperature range	-20° to +50 °C (-4° to 122°F)
Storage:	
- Temperature range	-10° to +50 °C (14° to 122°F)
- Max. Relative humidity (at + 35 °C)	Up to 98%, non condensing

8. CERTIFICATES

8.1 ISO 9001:2015 Certified



9. ADDITIONAL DATA

9.1 Warranty conditions

Warranty term is 13 (thirteen) months from the delivery date.

9.2 Engineer training course

Training of operators and service specialists is carried out in agreement with the customer.

* With continual development of our products ADANI reserves the right to make changes to the design and specifications at any time and without notice

10. DISTRIBUTION

10.1 Exclusive distributor for North America (USA, Canada and Mexico):



ADVANCED DETECTION SOLUTIONS

Advanced Detection Solutions, LLC (ADS)

2900 Bristol St., Suite G-205

Costa Mesa, CA 92626, USA

T: +1-949-500-6298

E: info@detection-solutions.com

W: www.detection-solutions.com

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

CONSTRUCTION CONTRACTS: Under W. Va. Code § 5-22-1(i), the contracting public entity shall not award a construction contract to any bidder that is known to be in default on any monetary obligation owed to the state or a political subdivision of the state, including, but not limited to, obligations related to payroll taxes, property taxes, sales and use taxes, fire service fees, or other fines or fees.

ALL CONTRACTS: Under W. Va. Code §5A-3-10a, no contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

EXCEPTION: The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. Code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Employer default" means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

"Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §61-5-3) that: (1) for construction contracts, the vendor is not in default on any monetary obligation owed to the state or a political subdivision of the state, and (2) for all other contracts, that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

WITNESS THE FOLLOWING SIGNATURE:

Vendor's Name: CHRISTIAN B. CHAHINE

Authorized Signature: [Signature] Date: 12/24/2018

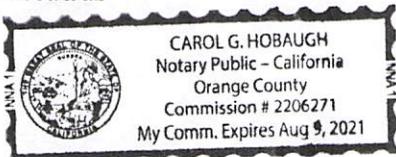
State of CALIFORNIA

County of ORANGE, to-wit:

Taken, subscribed, and sworn to before me this 24 day of DECEMBER, 2018.

My Commission expires August 9, 2021, 2021.

AFFIX SEAL HERE



NOTARY PUBLIC Carol G. Hobough

Request for quotation
CRFQ 0506 CME1900000002
Forensic-Critical Imaging System

FROM: Advanced Detection Solutions, LLC
REF: Specifications – FOBOS™ whole-body forensic x-ray system
DATE: December 24, 2019

3. Qualifications

- 3.1 – Meet
- 3.2 – Meet
- 3.3 – Meet

4. Mandatory Requirements

Per 4.1 – Please note that FOBOS™ meets or exceeds the mandatory requirements listed as follows:

4.1.1 Forensic specific Critical Imaging system

- 4.1.1.1 – Meet
- 4.1.1.2 – Meet
- 4.1.1.3 – Meet
- 4.1.1.4 – Meet
- 4.1.1.5 – Meet
 - * “Smart filters” allows for improved visualization of the body, thus creating conditions for more reliable detection of injuries and anomalies.
 - * Contrast resolution: 14 bits
 - * Fundamental pixel size: 100 micrometer
 - * X-ray image of high quality – limit resolution of the image is 2.5 line pairs per mm
- 4.1.1.6 – Meet
 - * Linear scanning: 40 mm/s coupled with our “smart filters” and advanced detectors allows for ultrahigh quality image capture from very large bodies to infant sizes
- 4.1.1.7 – OK

4.1.2 Smart Trolley/Gurney

- 4.1.2.1 – Meet
- 4.1.2.2 – Meet – Dimensions of Trolley/Gurney: 2320 mm x 940 mm x 800 / 900 mm adjustable (L x W x H)
- 4.1.2.3 – Standard table maximum capacity: 550 lbs. / Special table maximum capacity: 660 lbs.
- 4.1.2.4 – Meet

4.1.3 System Console

- 4.1.3.1 – Meet
- 4.1.3.2 – Meet
- 4.1.3.3 – Meet
- 4.1.3.4 – Meet

4.1.4 Radiation Leakage

* We are offering our FOBOS™ X-ray protective cabin version, designed to protect personnel from x-rays – and with easy access to body / trolley

* Protective cabin allows to have the system installed in any room/location (i.e. no radiology room is required) – can also be placed inside a trailer for disaster response (Mobile system)

* The cabin is compliant with USFDA, Center for Devices and Radiation Health Standards for Cabinet X-ray Systems (21-CFR 1020.40) – Typical radiation leakage is less than 0.1mr/hr. (Leakage less than 0.5mr/hr. permitted by the Federal Standard).

4.1.5 Training

4.1.5.1 – Comply

4.1.5.2 – Comply

4.1.5.3 – Comply

4.1.5.4 – Comply

4.1.5.5 – Comply

4.1.5.6 – Comply

4.1.6 Warranty

4.1.6.1 – Comply

4.1.6.2 – Comply

4.1.6.3 – Comply