



XIS-7858DVS

TECHNICAL SPECIFICATIONS

Contents

PHYSICAL SPECIFICATIONS

Physical Dimensions
Conveyor System
Environmental Conditions

ELECTRICAL SPECIFICATIONS

Power Requirements
X-Ray Generator
Detection System

INTERFACE SPECIFICATIONS

Onboard PC
Advanced Operator Control Panel
Monitors

IMAGING TECHNOLOGY

Performance Characteristics
Image Manipulation Options
Additional Functions

HEALTH AND SAFETY

Applicable Health and Safety Regulations
Safety Features

OPTIONAL SOFTWARE / HARDWARE

Software
Hardware



Figure 1: XIS-7858DVS Dimensions

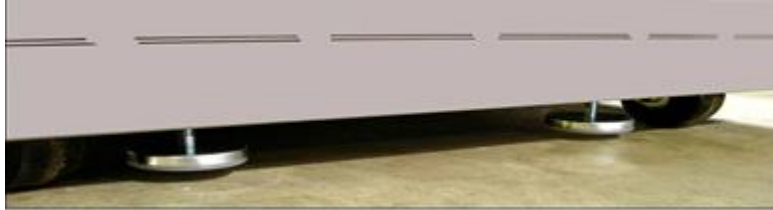
Physical Specifications

PHYSICAL DIMENSIONS

- Unit Dimensions (L x W x H): 259.7.0 cm x 134.6 cm x 147.3 cm
- Tunnel Opening (W x H): 77.7 cm x 57.9 cm



- Net Weight: 998 kg
- Shipping Weight: 1157 kg
- Heavy Duty Roller Caster (Wheels) for ease of movement and leveling feet.



CONVEYOR SYSTEM

- Speed: 23 cm/s in either direction (forward or reverse)
- Conveyor Type: Seamless low maintenance belt
- Load Capacity: 165 kg evenly distributed load
- Conveyor Height: 73.0 cm from floor level

ENVIRONMENTAL CONDITIONS

- Operating Temperature: 0°C to +40°C
- Storage Temperature: -20°C to +60°C
- Humidity: 0 to 95% (non-condensing)

Electrical Specifications

POWER REQUIREMENTS

- Power Requirements for 220VAC \pm 10%, 50/60 Hz, 15 Amp Max.

X-RAY GENERATOR

- Dual X-ray generators are rated at 180 kV each (operating at 165 kV).
- Detachable side-shooter generator.
- Dual X-ray tubes operate at 1.2 mA.
- Type: Monobloc.
- Both x-ray generators are covered by lead as an insulated material that prevents radiation leakage.
- The X-ray generators are rated for 100% duty cycle operation.
- The X-ray beam directions are diagonally upward and horizontally sideward.
- The x-ray tube uses a purified dielectric mineral oil bath with convection flow (polar dipoles) assisted by electric field from x-ray tube. All mineral oil is safely sealed and sequestered inside the x-ray generator. There are No any external mineral oil exposure hazards (Non-toxic oil).
- An X-ray controller protects each of the X-ray generators from abnormal over-voltage and over-current operation.

DETECTION SYSTEM

- System utilizes a dual energy stacked array X-ray detector assembly consisting of 3,200 high energy and low energy X-ray detectors.
- The X-ray Imaging System (XIS) measures and compares the transmission of *high energy* (high frequency) and *low energy* (low frequency) X-rays through the imaged items. From this comparison, the XIS is able to determine the approximate material composition of the imaged items.
- **Geometric Correction:** Detector assembly is *L-Shaped*. If left unchecked, the displayed image would present a skewed object image due to the size of the object and the variable distance from the X-ray source. As the diagram below shows, the closer the object is to the X-ray source, the more compressed the image becomes.

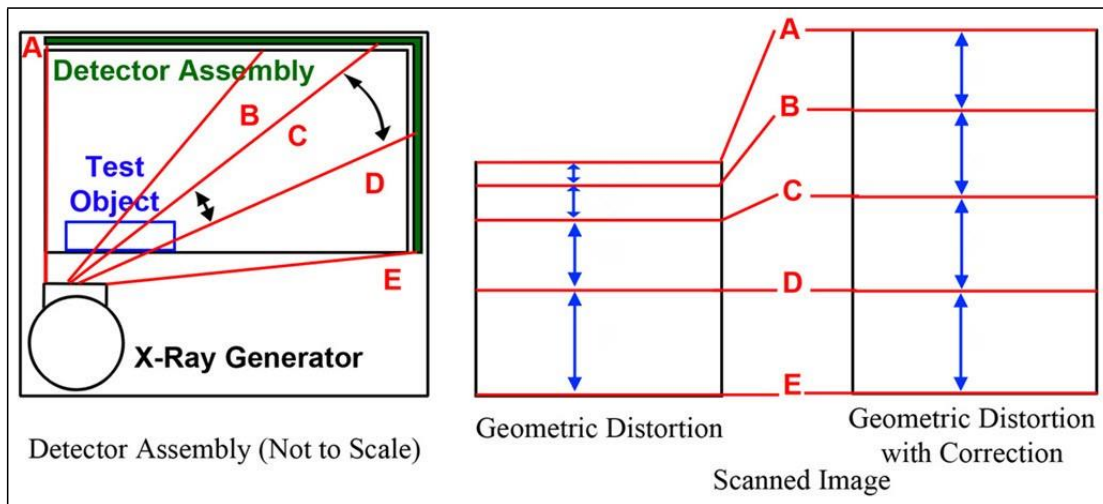


Figure 2: Detector Assembly and Geometric Distortion

The PC in the XIS automatically performs geometric correction to prevent the image from appearing skewed. As seen below, the image on the left without the geometric correction is distorted, while the image on the right shows the test case with the proper aspect ratio.

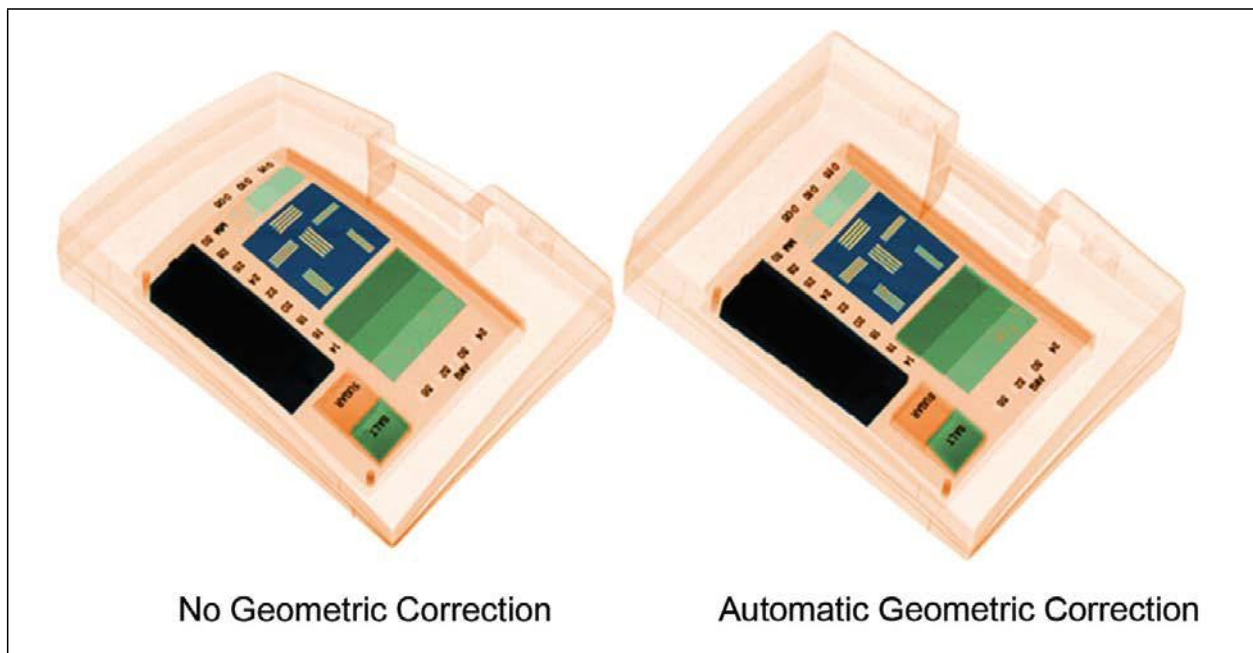


Figure 3: Geometric Correction Comparison

- X-ray detector assembly uses scintillating crystals and high-gain electronic amplifiers.
- The X-ray detector scans and displays the entire image without any corner cutoffs.
- The object which is intended to be scanned passes through a single passage from the x-ray tunnel.

Interface Specifications

ONBOARD PC

- Processor: Intel® Core i5, 3.4GHz
- Memory: 8 GB RAM
- Storage: 1 TB HDD, 256 GB SSD
- Video Card: 2 GB Video Card
- Platform: Windows® 10 OS
- USB Ports: Two USB 2.0 ports with optional external USB ports in the main frame
- Ethernet: LAN / WAN Network ready

ADVANCED OPERATOR CONTROL PANEL

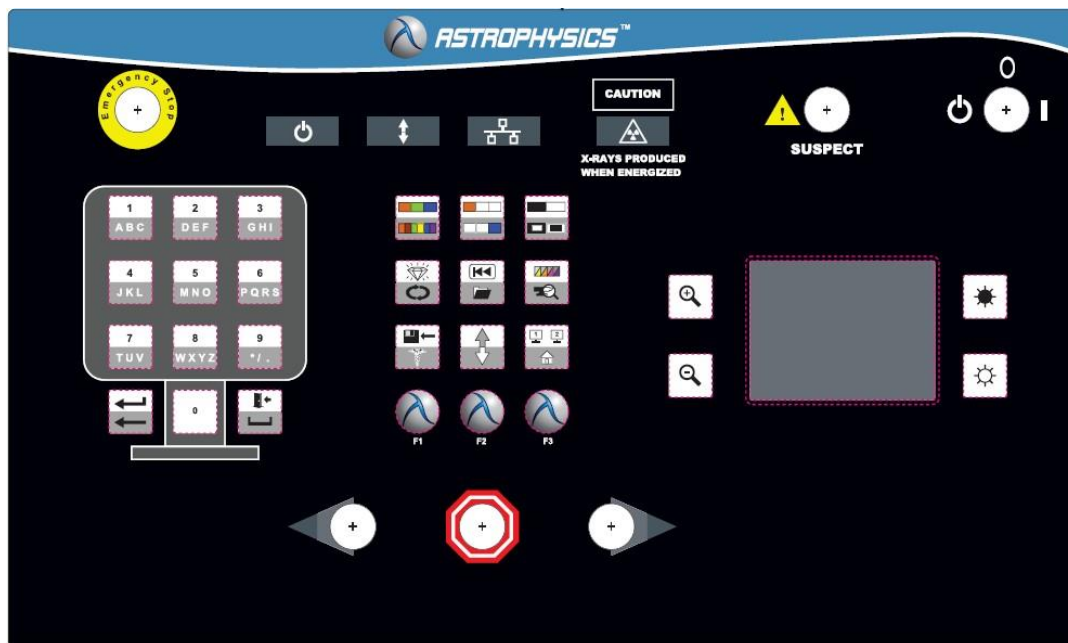


Figure 4: AOC Panel

- Ergonomic, icon-based design equipped with touch pad mouse and multiple buttons dedicated to different image manipulation options. Three programmable function buttons for image processing.
- Key switch to enable operation of control panel.
- Lights displaying the status of the machine and a speaker which can be used for audible alarms.
- Three programmable function buttons for image processing.



MONITORS

- Dual 21.5" LCD color monitors with image resolution with optional Dual 24" LCD color monitors with image resolution of 1920 x 1200 pixels.
- Monitor One displays color imaging, enhanced organic material separation imaging, enhanced inorganic material separation imaging, B&W (black on white) imaging, reverse B&W (white on black) imaging, and pseudo color imaging **for perspective 1.**
- Monitor Two displays color imaging, enhanced organic material separation imaging, enhanced inorganic material separation imaging, B&W (black on white) imaging, reverse B&W (white on black) imaging, and pseudo color imaging **for perspective 2.**

Imaging Technology

PERFORMANCE CHARACTERISTICS

- Wire Resolution (As tested on Astrophysics Test Piece): 40 AWG typical
38 AWG standard
- Steel Penetration (As tested on Astrophysics Inc. Test Piece): 39 mm typical
37 mm standard
- Spatial Resolution: 1.0 mm horizontal
1.3 mm vertical
- Film Safety: Guaranteed up to ISO 1600 (33DIN)
- **Organic/Inorganic Material Discrimination:** The system is capable of discriminating between organic and inorganic materials as measured by the ASTM F792-08 Test Piece - Test #5 & #7.
- **Organic Differentiation:** The system is capable of classifying organic material masked by 0.48 mm of steel as measured by the ASTM F792-08 Test Piece - Test #9.

IMAGE MANIPULATION OPTIONS

- The images below demonstrate the XIS image manipulation features. The images contain the following items for reference:

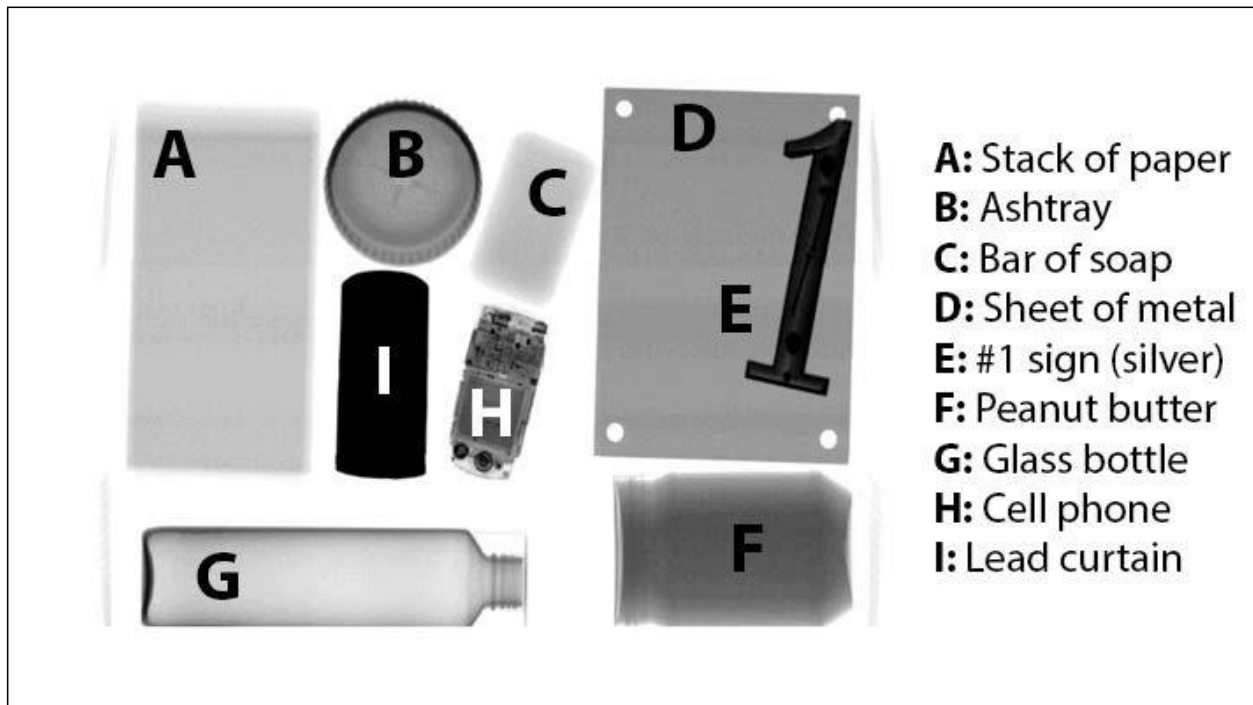


Figure 5: Black and White Image with Captions

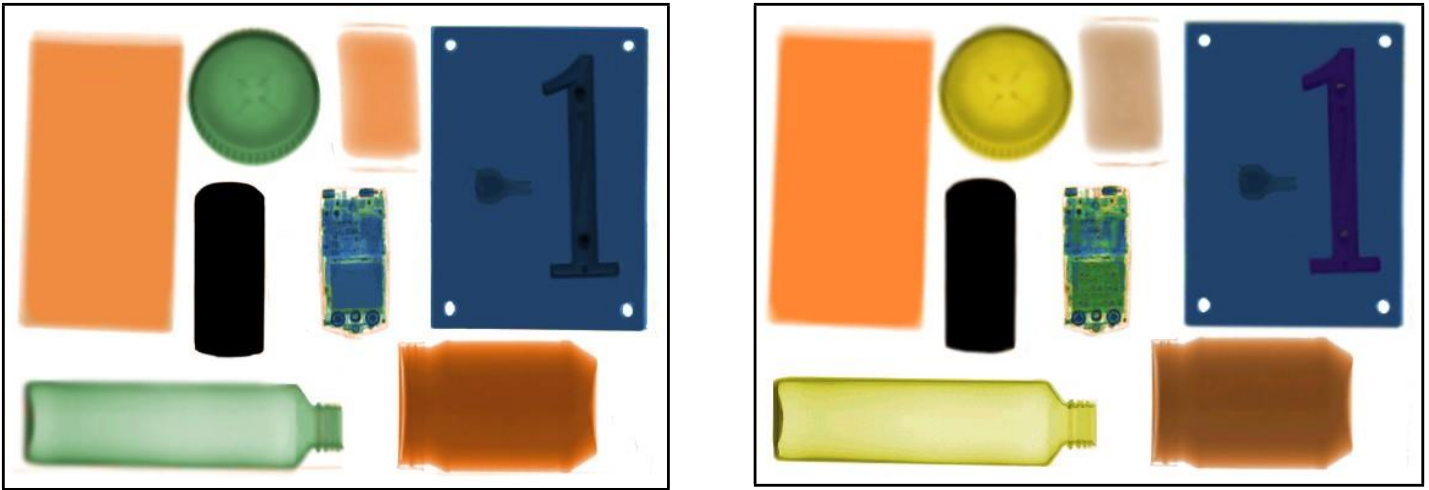


Figure 6: 3 Color (left) vs. 6 Color (right) Imaging Software

- **6 Color Atomic Display:** The default display option utilizes atomic number analysis and assigns colors based on their respective densities. Also, the **8 color Atomic Display** is available as an option.

Z-Number	Material Type	3-Color	6-Color	Examples	Possible Threats
0-8	Organic	Orange	Brown	Wood, Oil	C-4, TNT, Semtex
8-10	Low Inorganic	Orange	Orange	Paper, Alcohol	Cocaine, Heroin
10-12	High Inorganic	Green	Yellow	Glass	Propellants
12-17	Light Metals	Green	Green	Aluminum, Silicon	Gunpowder, Trigger Devices
17-29	Heavy Metals	Blue	Blue	Iron, Steel	Guns, Bullets, Knives
29+	Dense Metals	Blue	Violet	Gold, Silver	High-Value Contraband
-	Impenetrable	Black	Black	Lead	Shielding for Above Threats

Figure 7: 6 Color Atomic Table

- **Black and White:** Provides a standard grey scale display of the image.

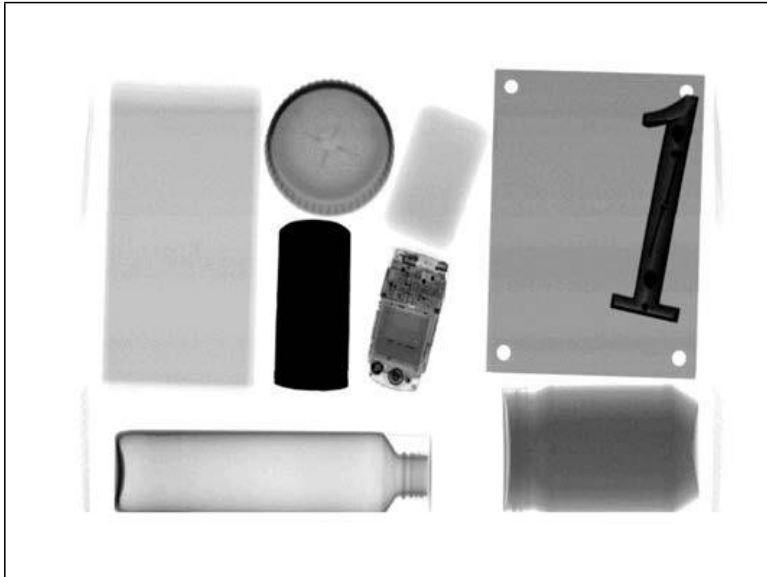


Figure 8: Black and White

- **Reverse Black and White:** Provides a reverse grey scale display of the image.

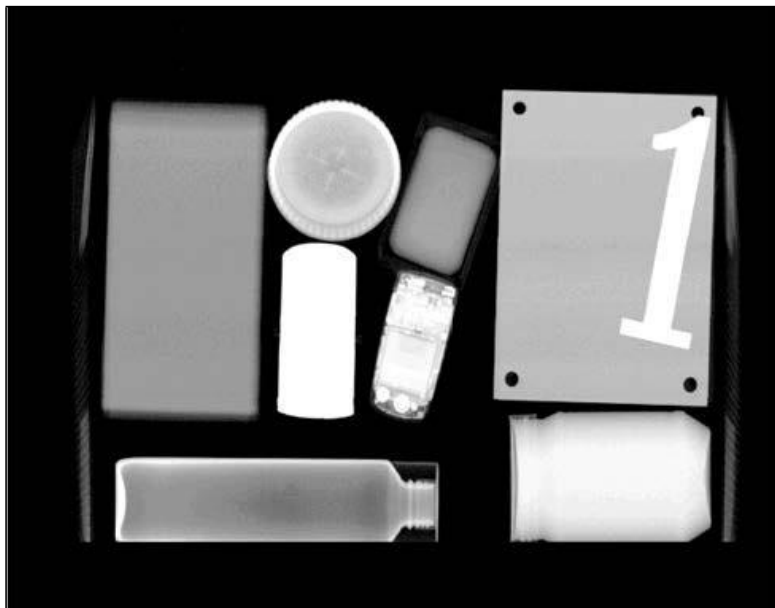


Figure 9: Reverse Black and White

- **Organic Emphasis:** Emphasizes the organic portions of the image by highlighting the organic areas in orange and displaying the rest of the image in grey.

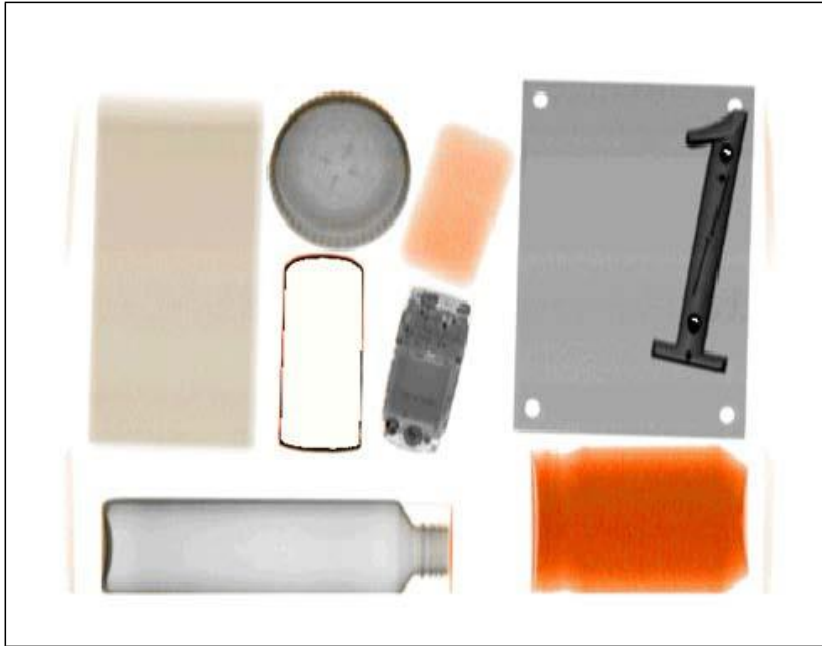


Figure 10: Organic Emphasis

- **Inorganic Emphasis:** Emphasizes the inorganic portions of the image by highlighting all of the inorganic areas in blue and displaying the rest of the image in grey.

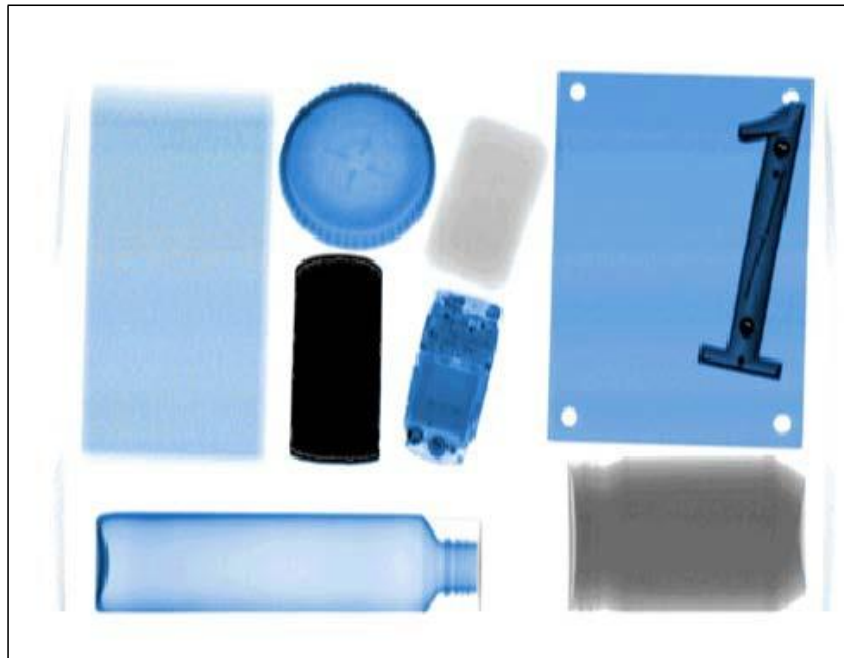


Figure 11: Inorganic Emphasis

- **Pseudo Color:** Applies multiple color palettes to produce unique images. The operator may scroll through available color options using the contrast button on the control panel.

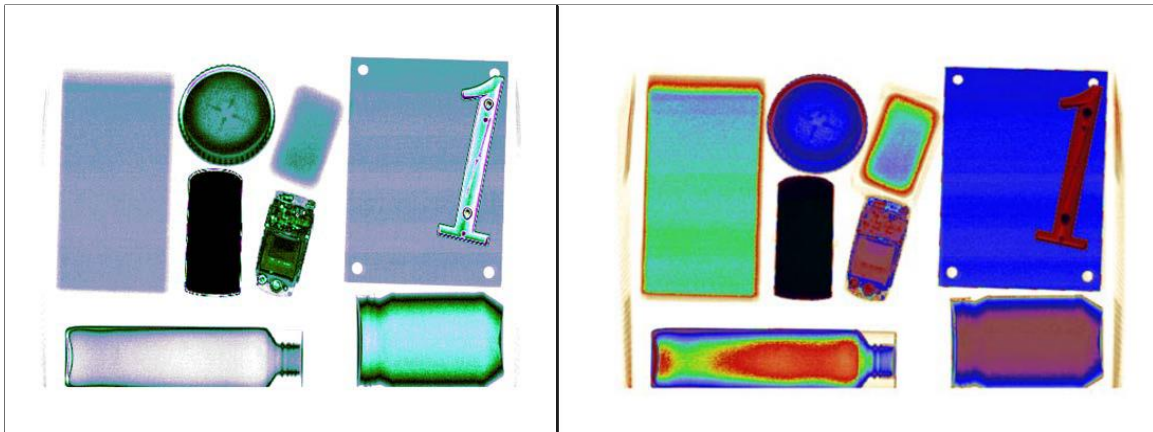


Figure 12: Pseudo Color

- **Picture Perfect:** Automatically analyzes and normalizes an image so all areas of the scanned image are visible to the operator. An image containing multiple, layered objects becomes more clear for operators to identify. This feature can be utilized in both color and black and white modes.

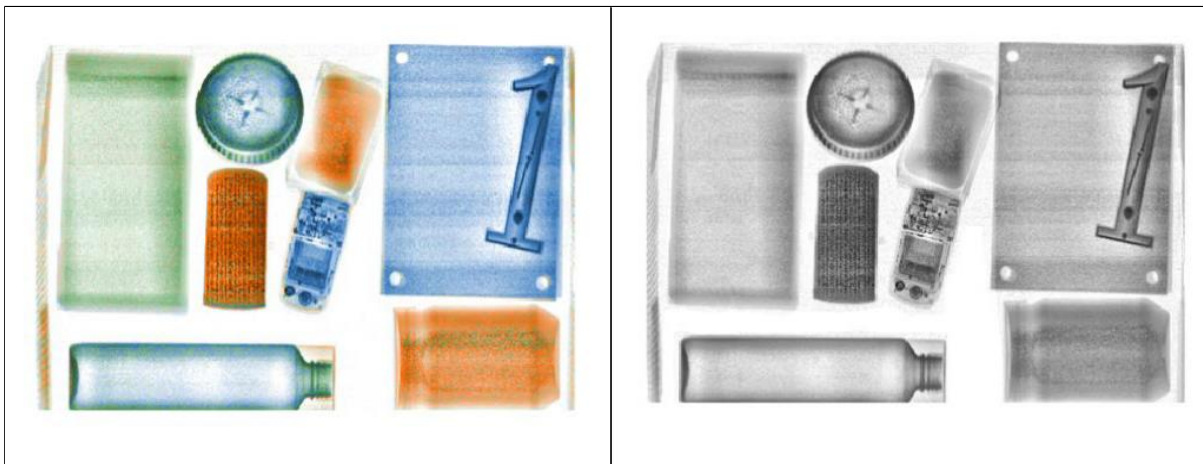


Figure 13: Picture Perfect

- **Edge Enhancement:** Enhances the outline and shape of each individual item in the screened image so operators have an easier time assessing threats.

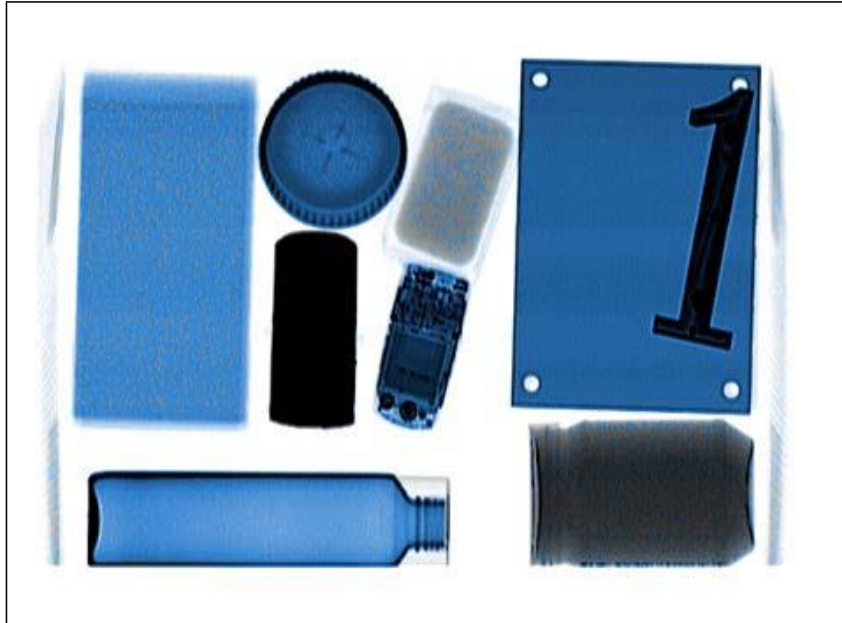


Figure 14: Edge Enhancement

- **Hi-Penetration:** Increases the penetration level to maximum for immediate clarification of dense objects.

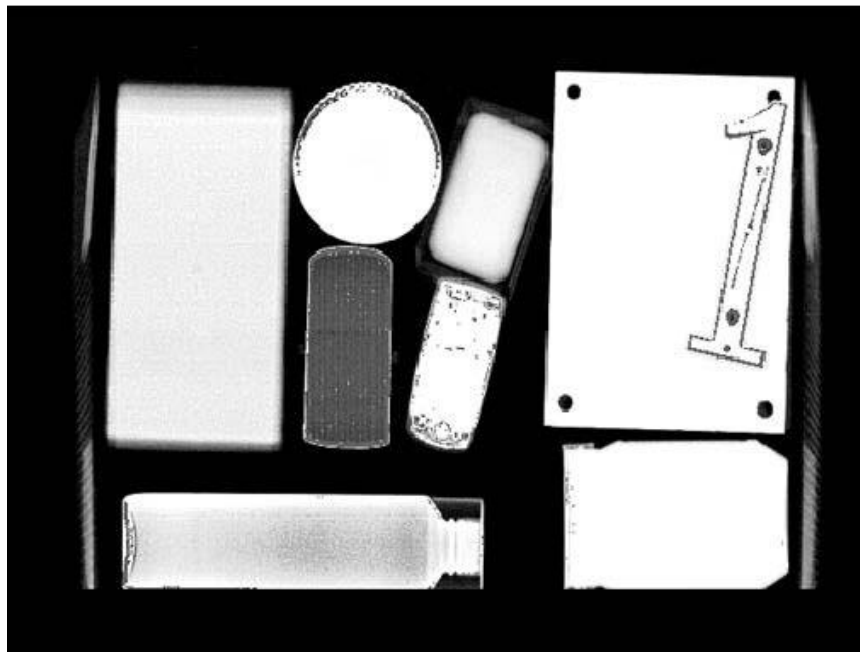


Figure 15: Hi-Penetration

- **Enhanced Imaging™:** Distinguishing threatening vs. non-threatening objects with minimal downtime is a challenge operators face when screening complex bags. Astrophysics' Enhanced Imaging™ (EI) software provides a powerful approach to this obstacle by facilitating higher image quality that not only creates greater visibility, but enables faster throughput. The major advantage to this software from the operator's perspective is that EI works while images are scrolling. This is especially important in high-throughput environments like airport passenger terminals, where machines run constantly for extended periods of time. This software enhances the outline and shape of each individual item in the screened image so operators have an easier time assessing threats.

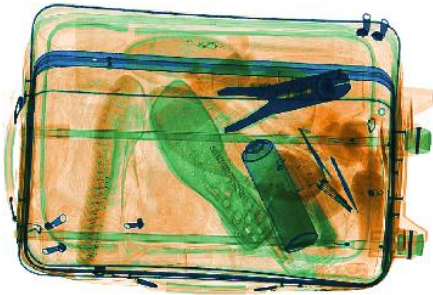


Figure 16: Normal Scan



Figure 17: EI Mode Enabled

EI Mode Features:

- EI Mode can be used while the machine is in motion, which increases throughput, and can easily scan long items.
- EI Mode can be used with all standard imaging modes (3-Color, 6-Color, Organic, Inorganic, Black/White, Black/White Reverse).
- EI Mode is toggled using the standard AOCF and can be rapidly switched on/off without noticeable delay.
- EI Mode mixes histogram equalization and normal scanning coloration, this can be configured for various imaging applications.
- EI Mode is paired with a feature that minimizes the unused white space in traditional displays. The machine is configured so that the largest possible image fills the screen in the default view, without further zooming



- **Contrast:** Operators can adjust the contrast (lighten or darken) for improved image assessment.
- **Real Time Image Manipulation:** All image manipulation occurs in real time and online.
- **Zoom:** Astrophysics software features both Continuous Zoom and 9 Quadrant Zoom. With Continuous Zoom, operators can zoom in up to 64x. In contrast, 9 Quadrant Zoom divides the screen into 9 sections, where each number on the AOCF keypad corresponds to a location of the quadrant. This function permits operators to quickly zoom in on individual areas of the screen for rapid threat identification.

ADDITIONAL FUNCTIONS

- **Atomic Number Selection:** When operators select Atomic Number and use the touchpad mouse to drag select an area on a scanned image, the XIS System will display the atomic number for that region. This option permits operators to accurately identify material groups and assess threat objects. The Atomic Number displayed will be accurate to within 0.2 counts.
- **Automatic Centering:** The XIS System automatically centers all scanned images regardless of their location during the screening process. The centering function ensures that there are no corner cutoffs or image clipping.
- **Automatic Image Archive:** The XIS System automatically archives the last 150,000 images scanned. When the capacity is reached, the system will start deleting the oldest images to allow storage for the newest images. Additionally, the software will always ensure an available storage space of 10 GB upon startup. *Note: image archiving may vary depending on hard drive and XIS tunnel size.*



Figure 18: XIS Interface Task Bar

- **Baggage Counter:** The XIS Interface Task Bar includes two baggage counters where one can be reset.
- **Continuous Scanning:** Allows operators to bypass the photo-sensors located at the ends of the tunnel and enable the X-ray generator to activate as soon as the conveyor belt starts moving. This function allows operators to scan low density organics or very long objects without image distortion and cutoff.
- **Date/Time Display:** The XIS interface screen features a date / time display.
- **Image Annotation:** Allows operators to draw a frame around a suspect area of a scanned image and enter three alphanumeric letters for reference. Operators can then save the image for later review, or transmit the image to a Secondary Review Station.
- **Image Processing:** The XIS System performs continuous automatic image optimization (adjusting for contrast and gamma), as well as image enhancements (geometric distortion correction) to produce an accurate and sharp image. The XIS System utilizes 14-bit image digitization while processing 24-bit real time image processing to accomplish this.
- **Image Review:** The XIS System permits operators to review the last 100 images scanned in the XIS System by selecting a scanned image and using the AOCF buttons to move forward or backward through the stored images.

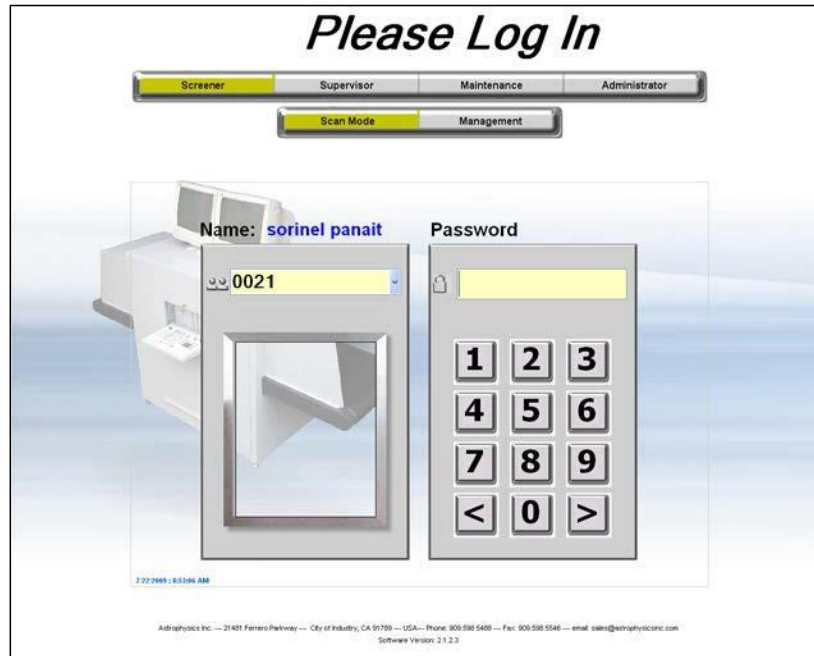


Figure 19: XIS System Login Screen

- **Tiered User Access:** The XIS System interface features a Login for operators and Administrators with unique programmable passwords allowing different levels of accessibility.
- **Operating Mode Display:** The XIS Scanning Screen displays a task bar indicating the image manipulation mode the operator is currently in.
- **Print:** The XIS System features a print function that allows operators to print the current image on the screen at the push of a button. The XIS System does not include a printer, but is compatible with most printers via USB connection. Customers may also request a specific printer for their XIS System.
- **Save Image (RGB):** Operators can manually save multiple images to a different folder on the XIS System. This permits operators to select images for later review on a separate PC.



Health and Safety

APPLICABLE HEALTH AND SAFETY REGULATIONS

- USA FDA for cabinet X-ray Systems (Federal Standard 21-CFR 1020.40)
- Health and Safety at Work Act 1974 - Section 6, amended by the Consumer Protection Act 1987
- U.S. Federal Aviation Administration Standards "Use of X-ray Systems" (Federal Standards 14 CFR 108.17 and 14 CFR 129.26)

SAFETY FEATURES

- All XIS Systems are protected by a minimum of two (2) lead curtain layers on both the entry and exit portions of the inspection tunnel. The lead curtains prevent radiation from escaping the X-ray tunnel.
- External radiation leakage of less than 0.1mR/Hr (1 μ sv/hr) as measured at 5 cm from the outer panels.
- Radiation dose for any inspected object inside the tunnel does not exceed 2 μ Sv (0.2 mR).
- In the case of an electrical overload, the system circuit breaker automatically disconnects power from the main AC input.
- Interlock switches are located on exterior system access panels. When any of these exterior access panels are opened or removed, the interlock switches automatically disable the X-ray generator and conveyor belt.
- *Power-ON* and *X-ray ON* indicator lights are located at both ends of the X-ray inspection tunnel and on the Operator Control Panel.
- Four "Emergency Stop" buttons are placed on each side of the X-ray machine, and one additional "Emergency Stop" button is located on the Operator Control Panel.
- Prominent labels warn users to not insert any part of their bodies into the tunnel when the X-ray generator is activated.
- CE – Labeling: 2014/35/EU (Low Voltage Directive), 2014/30/EU (EC Directive), 2006/42/EC (Machinery Directive).



CERTIFICATIONS:

- TSA Air Cargo Screening Technology qualified x-ray system.
- ISO 9001:2015
- ISO 14001:2015

Optional Software / Hardware

SOFTWARE

- **Operator Training Program (OTP):** The Operator Training Program enhances the detection skills and XIS knowledge of operators. The XIS System includes a complimentary operator training program with a small pre-scanned image library containing various normal and threat images. In addition, a full library of images is available as an optional upgrade. This software can be activated on the XIS system or any standard laptop or PC for training flexibility. The Operator Training Program is interactive, self-paced instruction that covers X-ray screening fundamentals, a step-by-step walkthrough of Astrophysics software and advanced features, as well as detailed training reports and records management.
- **Localized Language Support:** Astrophysics offers multiple languages that can be set as the default operator interface language. These include Arabic, English, French, Italian, Japanese and Spanish; additional languages may be available upon request.
- **Threat Image Projection Software (TIP):** The Astrophysics TIP (Threat Image Projection) system operates as an adjunct to the regular x-ray operating system. When the Astrophysics TIP system is turned ON, threat images (i.e. discrete scanned images of guns, knives, and bombs) are periodically and randomly blended into the scanned images that are being displayed on the video screen, without the operator's knowledge.

One of TIP's purposes is to test operators' ability to rapidly recognize and acknowledge fictitious threat projections. If the operator correctly acknowledges the TIP threat, a congratulatory "HIT" screen message is displayed. If the operator fails to recognize a TIP, the system highlights the TIP on the screen and warns the operator with a "MISS" message.

Conversely, if an operator mistakenly reacts to a non-existent TIP, the system displays a false alarm message.

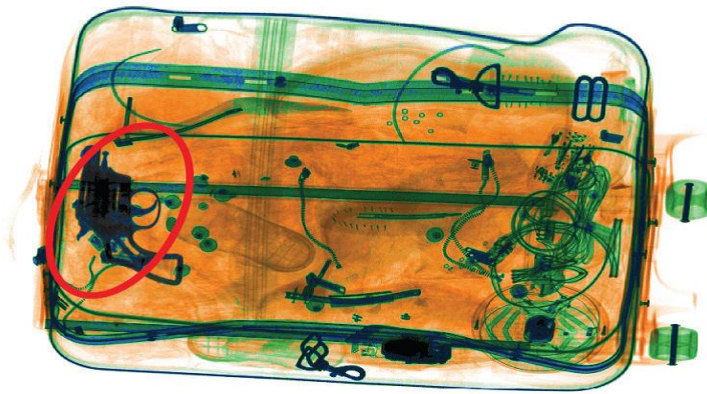
The TIP system scores and summarizes the performance of each operator. The results are available to be viewed and/or downloaded.

TIP also acts as a training tool. A typical security screener rarely sees images of actual threats. The TIP system exposes the operator to a variety of different threats, helping prepare the operator for the eventuality of a genuine threat and training the operator to be able to recognize such threats.

There are four broad categories of TIP tests:

- Guns
- Knives
- Explosives, including Bombs and IED (Improvised Explosive Devices)
- Other/Miscellaneous

TIP is a valuable detection tool for operators and administrators. The software has a large library with a range of threat objects and operates by periodically inserting a threat object into a scanned image. When a threat object is detected, operators push the "Suspect" button on the AOCPS to signify they recognize the threat. If the operator fails to identify a threat, the system will pause and the threat object will flash on the screen to notify the operator of the missed threat. TIP exposes operators to various threat objects and further practice in threat identification. Moreover, TIP enables administrators to evaluate the threat detection capabilities of operators and ensure they are screening effectively. The TIP software may be enabled or disabled as desired from the administrator menu so as not to disrupt the standard screening process.



Miss
You have not correctly identified a fictional threat
Press the STOP button to remove the fictional threat; however, check the bag to ensure no real threats are present

Figure 20: Threat Image Projection

- **Density Alert:** Density Alert draws an operator’s attention to potential threats by drawing a yellow ellipse around materials that are too dense for x-rays to penetrate. In regular imaging modes, these objects appear black on screen. Density Alert can be configured to sound an alarm and/or stop the conveyor belt when an impenetrable threat is detected.

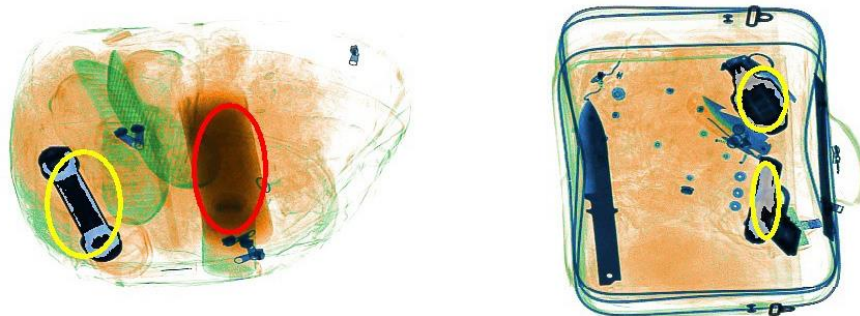


Figure 21: Density Alert

- The XIS System is equipped with a self-diagnostic system and display which permits operators to view the following information
 - Internal Power Supplies
 - Environmental Temperature
 - X-ray Generator Power
 - Power Key
 - Interlock Switch
 - Emergency Buttons
 - System Power On / Elapsed Time
 - Operator Time
 - Total Power On Time
 - Diode Map Out
- Additionally, the Real-Time Diagnostics Display also features a message log so the system can notify the operator of any faults.

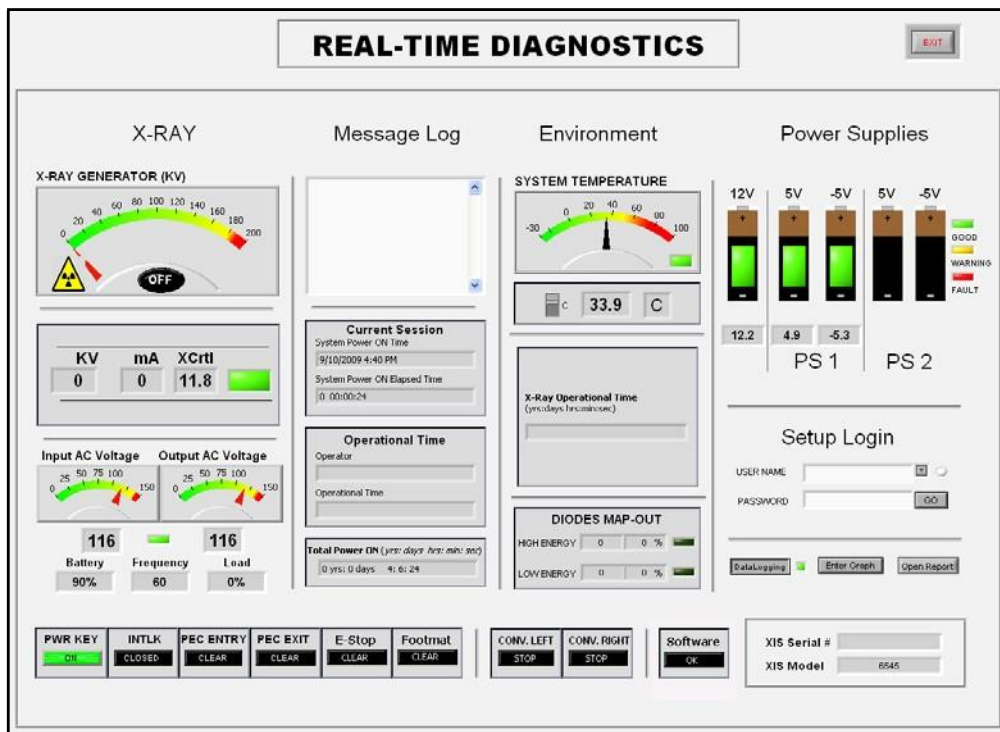


Figure 22: Real Time Continuous Diagnostics Display

- **Internet Call Center (ICC):** Astrophysics is the only company in the industry to offer such a comprehensive and efficient approach to customer service. The ICC features direct video conferencing, remote system connectivity, and facilitates fast service support and expedited parts ordering. The development of the ICC demonstrates Astrophysics' ongoing commitment to improve our response time and quality of our customer service.



- **Screener Assist (SA) With Liquid Discrimination:**

The detection technology is sophisticated and performs extremely well in meeting clients' security needs. To complement this technology and meet even more of the requirements of clients and front-line X-ray screeners, Astrophysics Inc has developed a remarkable software package called Screener Assist.

X-ray screeners have the challenging task of spotting potential threat objects in crowded bags and containers in a relatively small amount of time. Screener Assist uses sophisticated algorithms and multi-dimensional filters to spot and clearly highlight those potential threats on the screeners' monitors.

Screener Assist draws **RED** ellipses around areas that possess Z-number (atomic number) and mass density characteristics similar to those of common explosives and narcotics. **YELLOW** ellipses are drawn around dense areas of low x-ray penetration. **PURPLE** ellipses are drawn around bottles (placed on clear trays for scanning) containing flammable liquids.

Screener Assist is hard-coded into the X-ray machine's software and therefore requires no user adjustment.

The figure below shows examples of these ellipses, drawn around suspect items in a scanned bag as shown on a dual-monitor system, color on the left, black and white on the right.

In addition to explosives, Screener Assist can detect and highlight narcotic.

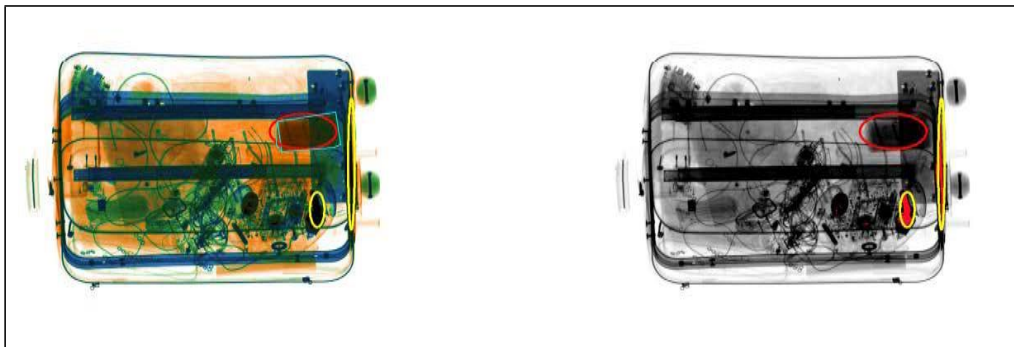


Figure 23: Screener Assist

- **Artificial Intelligence (AI):**

Detection Technology for Auto-Detection of Guns, Gun Parts, Bullets, Knives, Liquid Containers, Cell Phones, Lithium Batteries, etc. Introducing Astrophysics AI - the first fully-integrated artificial intelligence (AI) software. This AI software makes cutting-edge, automated threat recognition available for checkpoint screening at government facilities, schools, sports arenas, and other high-security sites. Also, it can be customized to meet with the customer's security needs such as the auto-detection of Laptops, Tablets, and USB Drives.

This proprietary visual software identifies dangerous objects within scanned images, even if they are rotated, vary in size or are partially obscured. Once a threat is identified the software highlights its location in a box, and alerts screening personnel to conduct a physical inspection.

Astrophysics AI's deep-learning algorithm effectively models the synapses of the human brain. This allows it to analyze images, extract objects' characteristics, and then create models that help it identify that entire class of objects going forward (e.g. guns, knives). The AI's threat detection continuously improves as it analyzes more and more images, resulting in an ever-expanding catalogue of threats it can readily identify.

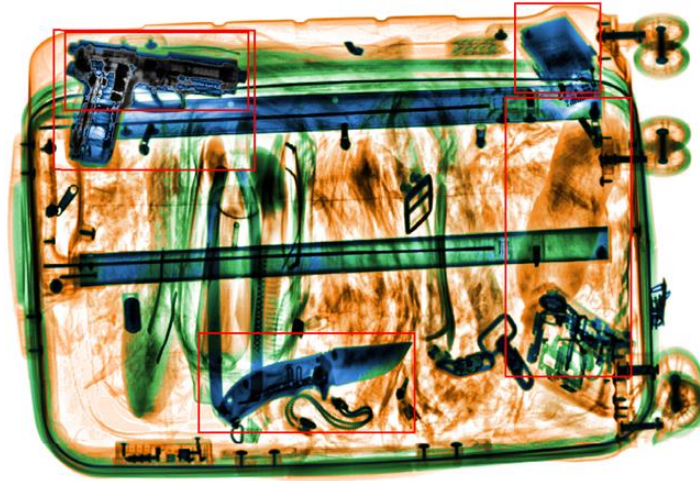


Figure 24: Artificial Intelligence (AI)



Figure 25: Artificial Intelligence (AI)



- **8 Color Atomic Display:**

Astrophysics 8-color Imaging is a breakthrough in the x-ray security industry and marks a significant step forward in threat discrimination and material identification. The introduction of 8-color, rather than the conventional 3-color palette allows operators to more efficiently recognize objects and isolate security threats. As a result, 8-color Imaging not only increases precision screening, but also greatly improves throughput.

The commonly used 3-color Imaging was established over 20 years ago and has a limited color coding that makes it difficult to discriminate between similar materials. 3-color Imaging simply does not provide the operator with enough information.

In contrast, 8-color Imaging utilizes extended color categorizing through **Atomic Z-Number Measurement**. Each screened object appears in one of the 8-colors based upon a specific range of atomic numbers.

8-color distinguishes between objects that only utilizing 3-color cannot, dramatically improving an operator's material identification. 8-color provides the operator with more information in order to decipher between threat and non-threat items, therefore the operator is able to interpret the x-ray image quicker and isolate threats with precision. This increases both throughput and detection accuracy.

Astrophysics, Inc.'s exclusive 8-color Imaging is an optional feature on all Astrophysics x-ray inspection systems, with industry leading penetration and software.

Z-NUMBER	MATERIAL TYPE	3-COLOR	8-COLOR	EXAMPLES	POSSIBLE THREATS
0-7	Low Organic	Orange	Brown	Oil	Cocaine, Fentanyl
7-8.5	Organic	Orange	Rust	Sugar, Water	C4, TNT
8.5-10	High Organic	Orange	Orange	Paper	Dynamite
10-13	Low Inorganic	Green	Yellow	Glass	Gunpowder, Propellants
13-17	High Inorganic	Green	Green	Aluminum, Silicon, Salt	Triggering Devices
17-21	Light Metals	Blue	Cyan	Bone, Composites	Dense Triggering Devices
21-29	Metals	Blue	Blue	Iron, Steel, Copper	Guns, Bullets, Knives
29+	Dense Metals	Blue	Violet	Gold, Silver	High Value Contraband
-	Impenetrable	Black	Black	Lead	Shielding for Above Threats

Figure 26: 8 Color Atomic Display

HARDWARE

- Climate Variable Kit: Astrophysics has various kits that can be added-on to make the system more efficient or operational within the climate it is deployed.
 - Tropical Kit: The Tropical Kit add-on mounts additional fans and desiccants within the XIS System so the unit remains unaffected in areas with high precipitation and humidity.
 - Polar Kit: The Polar Kit add-on mounts a heating pad on the generator in order to keep the XIS System within the optimal operational temperature in areas of extreme cold.
- Constant Voltage Stabilizer: The constant voltage stabilizer is an external device that serves as a buffer between the localized power source and the XIS System. The stabilizer protects the XIS System by compensating for unpredictable energy spikes and abrupt drops in power.
- Custom Paint: Customers may specify a particular paint scheme or additional artwork to fit in with the aesthetic of system placement.
- Extended Roller Beds: The XIS System may be supplemented with extended roller beds for longer clearance and larger objects. It can be 0.5 m increments, 1.0 m (0.5 m increments x 2), 1.5 m (0.5 m increments x 3), 2.0 m (0.5 m increments x 4), etc.



Figure 27: Entry Extension Roller Bed



Figure 28: Exit Extension Roller Bed

- Footmat: The footmat is an additional safety interlock system to ensure that the operator is present at the designated location during XIS system operation. Unless the operator places his or her foot on the mat, the system will not operate.
- Radiation Meter: Customers may choose from multiple radiation meters to perform on-site checks for possible radiation leakage as an additional safety measure.



Figure 29: Radiation Meter

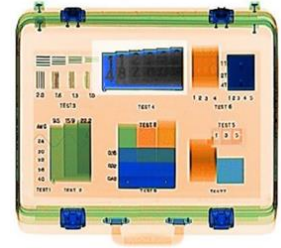
- **Test Kits:** Customers may choose from multiple test pieces, including an ASTM, EW STP, Astrophysics Steel Step Wedge, and Astrophysics Wire Resolution test cases, to perform on-site checks for consistency and reliability of units after repeated scans. The test kits serve as a baseline for which the performance of multiple units may be evaluated.



Figure 30: Exposed Wire Standard Test Piece (EW STP)



Figure 31: ASTM F792-08 Step Wedge (ASTM)



- **Workstations:** Astrophysics offers a variety of workstations, including the Remote Operator Workstation, Remote Workstation with 5 m cable, Secondary Review Workstation, Supervisor Workstation, Astrophysics Management System (AMS), and Remote Archive Viewing Workstation. Remote Workstations can be added to any Astrophysics System for added screening security and efficiency. For more information about workstations, please contact your Astrophysics Sales Representative.



Figure 32: Remote Operator Workstation (Comes by default with XIS-7858DVS)



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