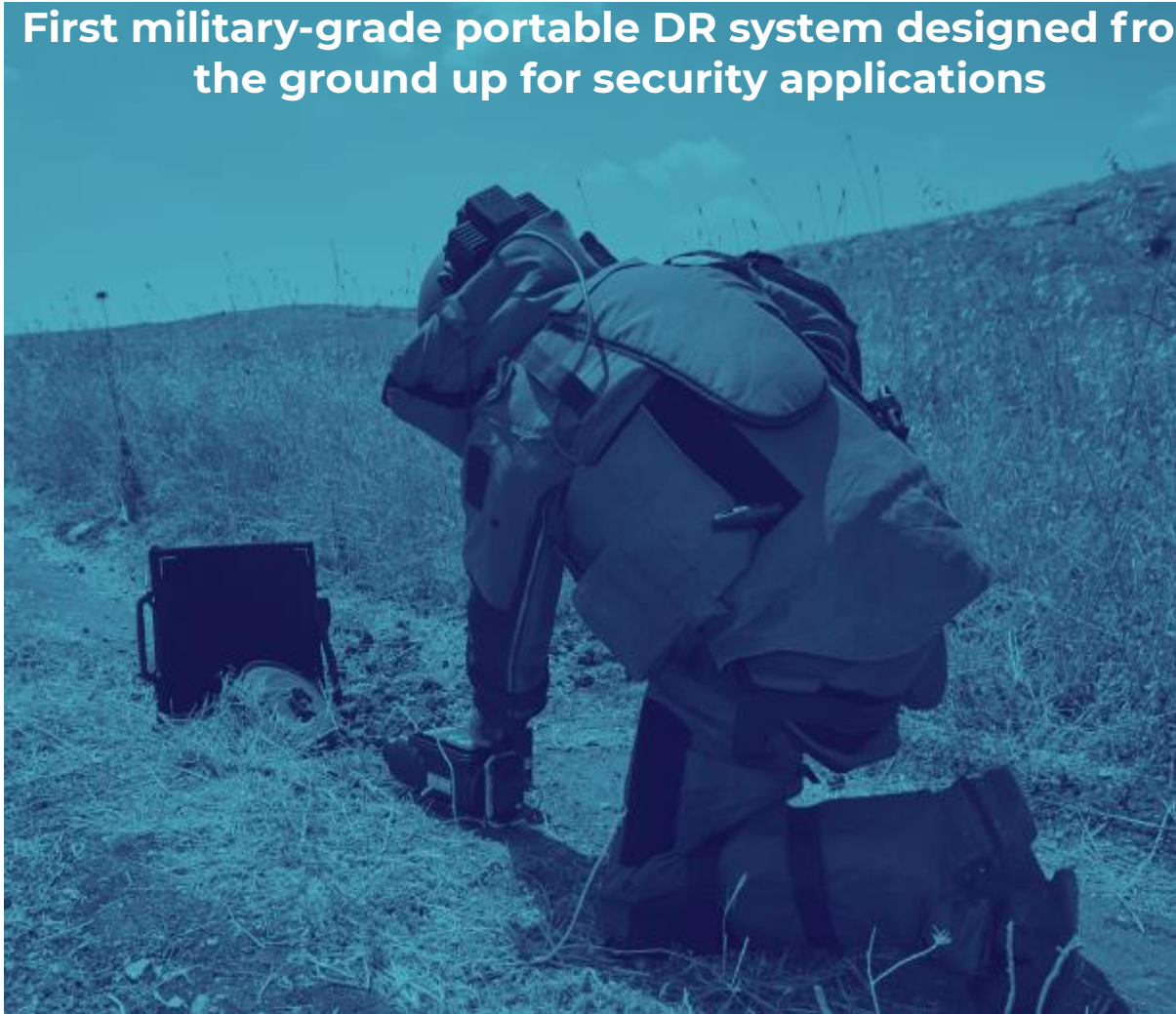


Technical Specifications: **-Guardian 17" System-**

First military-grade portable DR system designed from the ground up for security applications



About Vidisco

Vidisco provides innovative portable X-ray solutions for safe and accurate detection in demanding Security and Non-Destructive Testing (NDT) applications. Founded in 1988, Vidisco pioneered the digital X-ray industry and today, continues to lead in developing, manufacturing and supporting a wide array of solutions. Thousands of Vidisco systems are deployed by top military, security and industrial organizations in 75 countries worldwide. They deliver fast, high-quality imaging in the most challenging environments

Why Vidisco

The choice of global security and industry leaders

Many of the world's top military, security and industrial organizations depend on Vidisco solutions to protect their assets and most importantly, their people.

Extensive field experience

The Vidisco team comprises more than 50 seasoned military and professional experts and a worldwide service division, operates from our headquarters and service centers in the U.S., Europe and Asia

End-to-end quality

Our quality commitment starts with the smallest component and extends through the full customized solution to ensure the highest accuracy and reliability

Widest range of Security applications

Vidisco solutions address the broadest spectrum of Security applications across varied sectors.

CONTENT OFFER

OFFER INCLUDES		
CLASSIFICATION	ITEM	DESCRIPTION
Main System	X-ray generator	XRS-3
		X-ray generator battery
		X-ray generator rechargeable battery charger
	Digital imager	GUARDIAN 17 Digital Imager
		GUARDIAN 17 protective cover
		GUARDIAN 17 Digital Imager leg holder
		GUARDIAN 17 batteries
	Image controller	VEO Software
	Tablet (Win10 or higher)	Getach F110
	Wired operating device set	50m Cable reel
	Wireless operating device set	CAT +Combox
	Accessories	Tactical bag
Additional panel		GUARDIAN 17 Chaser Kit
large objects scanning accessory		Vidisco slider

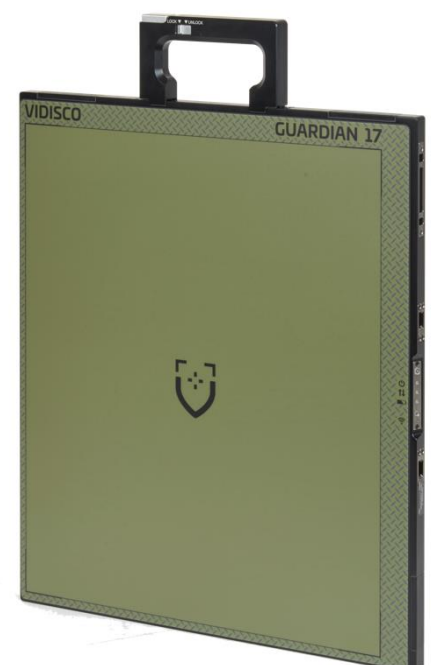


GUARDIAN 17 IMAGER (17"X14")

GUARDIAN 17 IMAGER	
TECHNICAL SPECIFICATION	REQUESTED REQUIREMENTS
Imaging area	358.4mm x 430.0mm
Weight, including battery	4.2 kg.
Panel thickness	17mm
Panel Dimensions	470mm x 400mm
Panel bottom dead space	8.0mm (bottom), 10mm (right edge)
Sensor type	active matrix (aSi)
A/D converter resolution	≥16 bit (65,536 levels of grey)
Pixel matrix	2560 x 3072 pixels
Imager technology	aSi matrix – no moving parts inside the Imager!
Image resolution	≥4 lp/mm
Acquisition/penetration capacity	Acquisition of a Pb target of small dimensions (2mm of lead) behind a ≤80mm thickness steel plate (distance between XRS3 source and panel at least 250mm)
Battery operation	8 hours (when image is acquired), 9 hours (standby)
Operative temperature range	From -20°C to +50°C
Operative relative humidity range	10 ~ 90 % (Non-condensing)
Distance panel/control unit via cable	50m standard (15 up to 900m)
Distance panel/control unit via wireless	50m/300m/1.6.mile Wi-Fi (2.4GHz & 5GHz)
Use energy range	40KV up to 450KV
Max. Exposure Time	≤180 sec
Warranty	2 years
Communication protocol	Cable data transfer: TCP-IP ETHERNET
Note	Ability to detect organic/inorganic materials
Additional features	Tripod Mount and Protective Cover
Pixel size	140 microns

Advantages

- ✔ Panel thickness: 17mm
- ✔ Dynamic range: 16bit
- ✔ Penetration: 80mm of steel
- ✔ Battery power: Up to 4 hours on one battery (additional battery)
- ✔ Integrated wireless
- ✔ IP 67 – Panel & Connectors
- ✔ Detachable handle on both sides
- ✔ compatible with: XR-150, XR-200, XRS-3



Getac F110

11.6" RUGGED TABLET –GETAC F110	
TECHNICAL SPECIFICATION	REQUESTED REQUIREMENTS
Processor	intel Core i7-1185G7 vPro Processor
RAM	32GB DDR4
HD	SSD 512GB
DURABILITY	MIL-STD-810G certified and IP66 certified Vibration & drop resistant
SCREEN	11.6" IPS TFT LCD FHD (1920X1080) 1000 nits LumiBond® display with Getac sunlight readable technology, Capacitive multi-touch screen
Communication Interface	Intel® -WiFi 6 AX201,802.11ax Bluetooth (v5.2)vii
Size	314 x 207 x 24.5 mm (12.4" x 8.15" x 0.98")
Weight	1.52 kg
Power	AC adapter (65W, 100-240VAC, 50 / 60Hz) Li-Ion smart battery (11.4V, 2160mAh) x 2
Working time on battery	up to 12 hours of battery life
Operation system	Windows 10 Pro x64

Advantages

- ✔ large Operative temperature.
- ✔ Lite weight- only 1.5kg
- ✔ Allow battery replacement
- ✔ Powerful- I7 processor
- ✔ Long working time
- ✔ Fully rugged



XRS-3 SOURCE

X-RAY SOURCE- XRS3	
TECHNICAL SPECIFICATION	REQUESTED REQUIREMENTS
Penetration capability	2mm of Pb behind a steel plate of at least 85mm (with a distance source/panel of at least 250mm)
Battery type	18v-20v Li-Ion Rechargeable battery
Source technology	Pulse generator ≤270KV
Battery charging time	≤1 hours
Operation time with battery	4000 pulses
Weight, including battery	5.3Kg (6.5 with spare battery and charger)
Size	14.2" (36.07cm) x 4.28" (10.87cm) x 5.83" (14.81cm)
Operative temperature range	From -20°C to +50°C or higher
Warrantee	≥1 years
Note	Possibility to detect organic/inorganic materials
Communication	wireless and wired

Advantages

- ✓ large Operative temperature.
- ✓ Lite weight- less than 5.5kg
- ✓ Fast battery replacement
- ✓ Powerful
- ✓ Long working time



CAT

CAT V2.1	
TECHNICAL SPECIFICATION	REQUESTED REQUIREMENTS
Weight	1.145 Kg
Size	17x14x8.2cm
Plugs	System cable plug X-ray plug Imager plug IP plug
Conectors type	Lemo K serie IP68 plugs
Wi-Fi	501m/1 mile line of sight <ul style="list-style-type: none"> - Frequency: 2.4GHz & 5GHz - Power: 0.05 up to 1 Watt - Speed: up to 150MB/s - 1-30 dbi - Protocol: Support for 802.11b/g/n Devices - Wi-Fi encryption wpa2
Cable	Power 24V 3A Charge down the line Data 100MB
Battery	6 hours
Tripod mount	Yes (Picatinny)
Antennas	Omni 7
Special feature	Attches to Golden's sources with picatinny

Advantages

- ✔ Long working time
- ✔ Supports wired and wireless work
- ✔ Allows connections to accessories



CABLE REEL 50m

50M CABLE	
TECHNICAL SPECIFICATION	REQUESTED REQUIREMENTS
Weight	Up to 2.9 kg
Size	Up to 23.5*11.5 cm
Length	50m
Connectors	Lemo IP68

Advantages

- ✔ Standalone reel.
- ✔ Lemo IP68
- ✔ Lite weight- less than 3kg



ComBox

COMBOX	
TECHNICAL SPECIFICATION	REQUESTED REQUIREMENTS
Weight	400gr
Size	18.5x9.4x2.6cm
Communication into display computer	1 USB3 connector
Communication into CAT	Ethernet Lemo K serie IP68
Wi-Fi	300m Line of sight 2.4Ghz & 5Ghz
Wireless X-Ray	300m Line of sight
AC conector	Chargers the system down the line
Antennas	Omni 7

Advantages

- ✔ Wired and wireless communication in one device.
- ✔ One input of USB3
- ✔ One output with IP68 connector for wired communication
- ✔ Charges the system down the line
- ✔ Wireless: 300m line of sight.



BACKPACK

BACKPACK	
TECHNICAL SPECIFICATION	REQUESTED REQUIREMENTS
Packaging	1 Backpack
Size	54*47*33 cm (l, w, d)
Weight	≤ 7Kg including foam
Protection	Including padding to protect the components contained
Temperature	-10 (-20°C optional) up to +50C°
Display computer	Tablet
Imager	43*36cm (17" * 14")/ 25*32cm (12" * 12")
Dual Energy	XRDE plus- Attached to Golden Engineering sources
Cable length	50m standard
X-Ray source	Dedicate compartment for Golden sources excluding XRS4

Advantages

- Contains a complete system
- Allows tactical carrying on the back

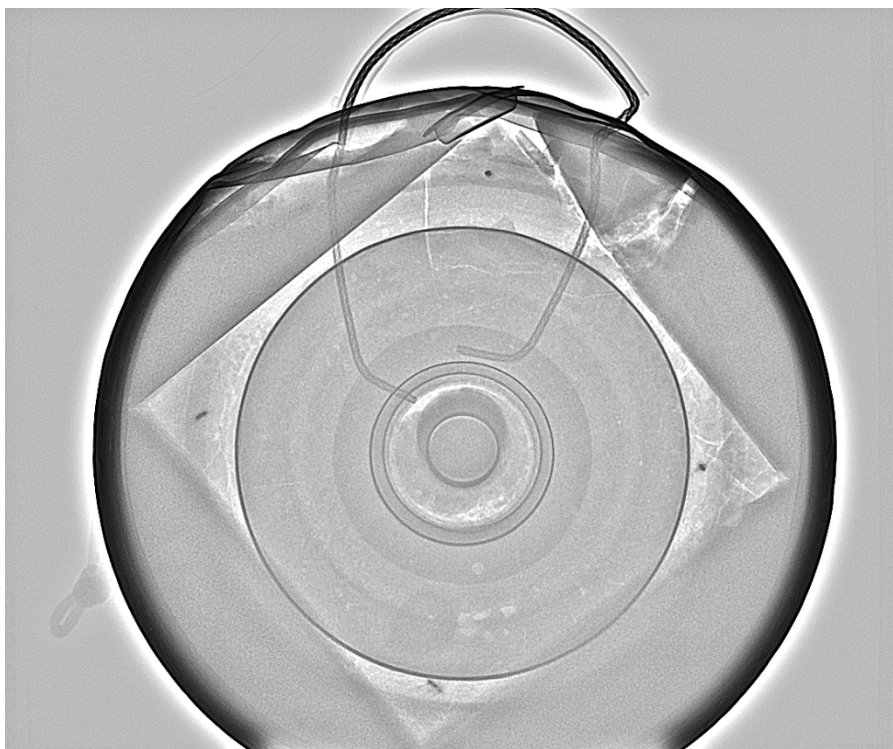
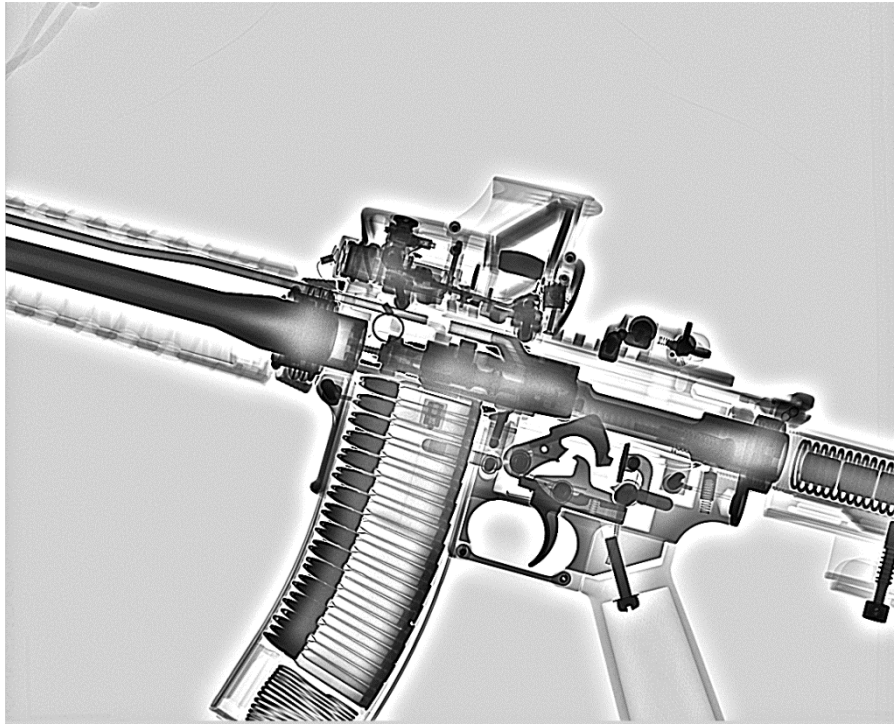


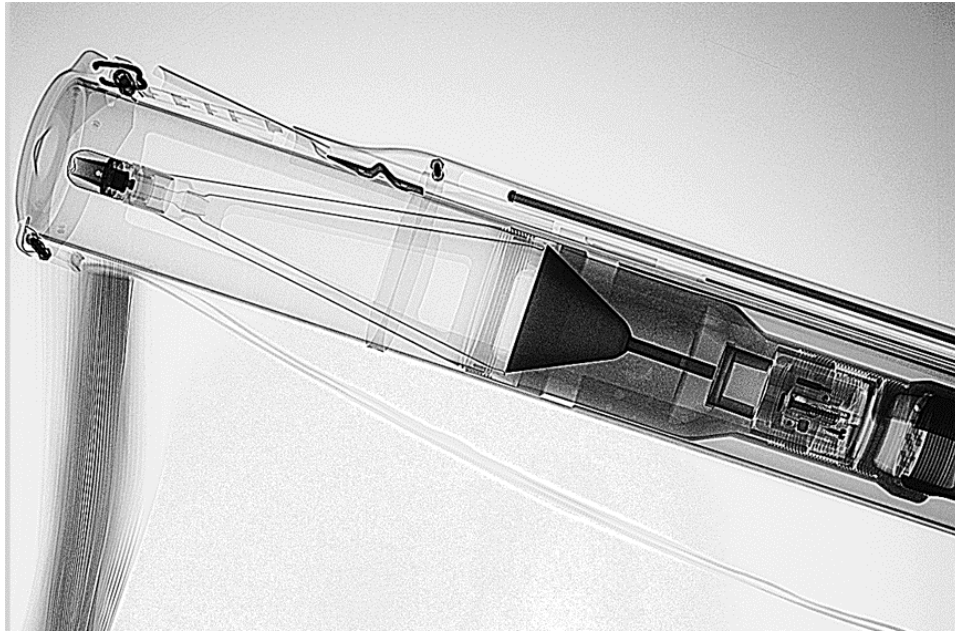
VEO Software:

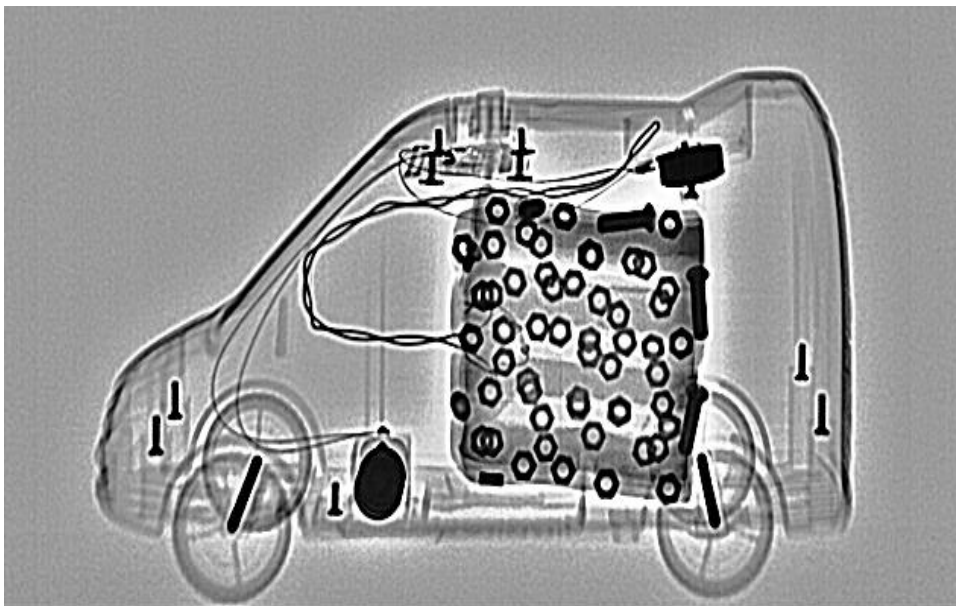
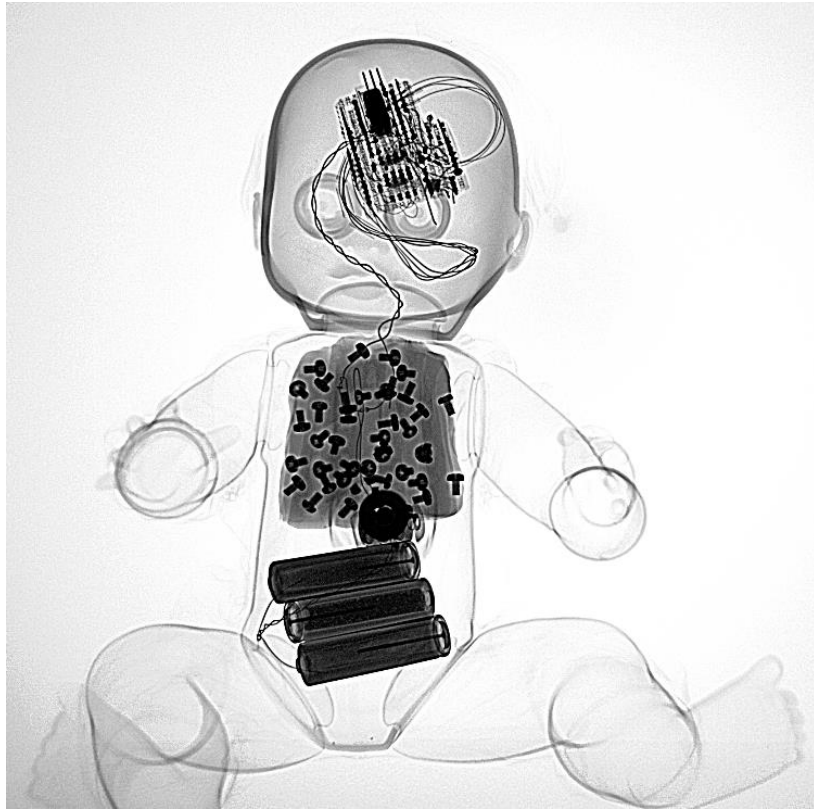
SOFTWARE SPECIFICATION	
TECHNICAL SPECIFICATION	REQUESTED REQUIREMENTS
Interface	Intuitive and user-friendly multi language
Images post-processing	<ul style="list-style-type: none"> • Applications to store, sort, analyze and export images in standard digital formats (JPEG, GIF, etc.) • Analysis tools: window leveling, histogram equalization, sharpen, polarity, average, median, edge enhancing, brightness, contrast, gain, gamma correction, pseudo color, rotation, pan, zoom, emboss, distance measurement, annotation, undo, redo, macro editor, show grid, show pixel value, adjust tool bars, ROI selection, protect image • File manager: save, save as, delete, export, import, print • Immediate overlapping of multiple images acquired with different exposure cycles • Possibility to create an image database – simple access/use
Software feature	<ul style="list-style-type: none"> • Stitching several images • Subtraction tool- Compare between to images • Calibration tool- Dark calibration and full calibration • Probe function- Identify organic material inside inorganic material • Summation- Accumulate several panel's exposures in one image • Overlay- Combine two images with different exposures time in to one image. • Averaging SNR reduction tool
Control	Possibility to settle the main parameters of the x-ray source (power and time)
Upgrade	Simple upgrade possibility
Sources integration	Full integration and operate from the software the following sources: CP120,CP160,XR150,XR200,XRS3,XRS4,Gem-X160
Max. Max. Exposure Time	≥180 sec



Example of pictures:







Safety and warranty:

Safety Instructions

This section contains important safety information that should be read before connecting or operating your Guardian system.



The safety precautions listed below are meant to complement your organization's current safety guidelines regarding operating X-ray Sources. Therefore, if there is any inconsistency between a particular safety instruction listed below and your organization's current practices and procedures, please clarify the issue with your supervisor before continuing.

When using this equipment, reduce the risk of fire, electrical shock, or personal injury by following these basic safety precautions:



Use only the cables provided with the system.



The Guardian system contains sensitive electronic devices and must be handled, transported, and stored with care. Operators of the Guardian system should ensure that the components are not exposed to extreme shock or vibration.



The standard system configuration is suitable for use at temperatures of -20° to 50°C (-4° to 122°F). Specialized accessories are available to enable use of the system at extreme temperatures.



Do not use cables with damaged connectors. Using a cable with a damaged connector can cause severe damage to the Guardian system, including burning-out critical components.



Avoid touching this product during an electrical storm. There is a remote risk of shock from lightning.



X-rays and X-ray Sources can cause bodily harm. Although the X-ray Source is not potentially dangerous until activated, never stand in its direct path.



Observe local safety regulations when operating any X-ray Source.



When an image is captured using the Guardian system the X-ray Source is activated one or more times. Consequently, all safety precautions that are adhered to during activation of the X-ray Source should be taken as long as the X-ray Source is powered on.

Static electricity can severely damage the electronic components of the Guardian system. When handling and installing the various hardware items, follow these procedures to avoid damage from electro-static discharge (ESD):



Handle all hardware items by their bulkhead or edges and avoid touching the components and the circuitry connectors.



When installing the components, equalize any static charge difference between your body and the components. This can be achieved either by wearing a grounding, anti-static wrist band or by frequently touching some metal item in the vicinity when handling the various metal components.



Refer to your X-ray Source guide for further safety precautions.

Warranty Example:



Vidisco Warranty

We hereby certify that the Vidisco products specified below, to which this certificate relates, have been inspected and tested in accordance with the conditions and requirements of the contract or purchase order; and unless otherwise noted, conform in all respects to the relevant specification.

Vidisco Ltd. warrants the Vidisco products purchased directly, or through an authorized representative, to be free of defects in materials and workmanship for a period of Twenty Four (24) months* from the date of this warranty indicated below.

This limited warranty covers all defects encountered in the normal usage of the Vidisco product, and does not apply in the following cases:

- a) Loss of or damage to the Vidisco product due to abuse, mishandling, improper packaging or shipping, alteration, accident, electrical current fluctuations, installation of any software that conflicts with, damages or limits the pre-installed Vidisco product software or the removal of any Vidisco software required modules, failure to follow operating, maintenance or environmental instructions prescribed by Vidisco in the user manual or services performed by someone other than a Vidisco authorized service provider. Without limit to the following items listed, water damage, sand/corrosion damage, battery leakage, dropping the Vidisco product, will be presumed to have resulted from misuse, abuse or failure to operate the Vidisco product as set forth in the operating instructions.
- b) Use of parts or supplies (other than those sold by Vidisco Ltd.) that cause damage to the Vidisco product or cause abnormally frequent service calls or service problems.
- c) If the Vidisco product has had its serial number or dating altered or removed.



To make a claim under this limited warranty, the customer must ship the entire unit (or the component believed to be defective) to Vidisco Ltd. in proper packaging, prepaid and in coordination with the Vidisco Ltd. Service Department.

Vidisco Ltd. assumes no liability for units or components shipped until they are actually in the custody and possession of Vidisco Ltd. Upon inspecting the defective unit and based on the sole discretion of Vidisco, provided that the defect is not the result of one of the above listed items, Vidisco Ltd. will repair or replace the defective component(s) with new or comparable rebuilt parts or exchange the said part for a refurbished part as determined by Vidisco Ltd. or an authorized Vidisco Ltd. service provider, under their sole discretion.