MEDICAL MATERIEL SET X-RAY, LOWCAP, DIAGNOSTIC PORTABLE

Support and Consumables Handbook

6545-01-529-3904
UA N334
LIN M73175

Semper Responsus

REVISED

January 2013

U.S. Army Medical Materiel Agency

The information contained in this manual was prepared by the

U.S. Army Medical Materiel Agency
Office of PM, Medical Devices
Acquisition Information Division
693 Neiman Street
Fort Detrick, MD 21702-5001

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Customer Relationship Management
301-619-1288/4301, DSN 343-1288/4301, or at:

USAMMACRM@amedd.army.mil

For additional equipment item information, visit the USAMMA Medical Equipment Literature section on the web at
<http://www.usamma.amedd.army.mil/med_equip_lit_cdroms.cfm>

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READER COMPUTED RADIOGRAPHY

TOC

DISTRIBUTOR: MINXRAY, INC.
MANUFACTURER: ICRCO
Manufacturer Model# VERTX
Distributor's PHONE: (847) 564-0323 FAX: (847) 564-9040
Manufacturer's PHONE: (310) 921-9559 FAX: (310) 921-2559
Distributor's Website: <http://www.minxray.com>
Manufacturer's Website: <http://www.icrcompany.com/>

Item Web Link:
<http://icrcompany.com/Computed-Radiography/vertx.html>

AAC 'L' ITEM NSN 6525-01-564-5639

UAs: 262A, 905C, N334

USAMMA POC: Customer Relations Management 301-619-1288/4301 - DSN 343-1288/4301
UNIT PRICE: $73,811.00

System Description: The VertX is the innovative, next generation, truly portable CR at only 59 pounds; it measures 33 by 20 by 6.7 inches (H x W x D). It is especially designed for military, mobile, ICU, OR, and all portable applications. It's patented design incorporates a True Flat Scan Path, an ultra precise scan mechanism, and protective cassettes to produce 300,000+ high resolution images per plate.

It accommodates 10- by 12-inch and 14- by 17-inch image plates. The engineering behind the VertX is second to none. It is designed to withstand any environmental conditions while producing superior quality images. Paired with Windows based QPC XSCAN32 software, this machine is by far the easiest CR to operate for all mobile computed radiography applications.

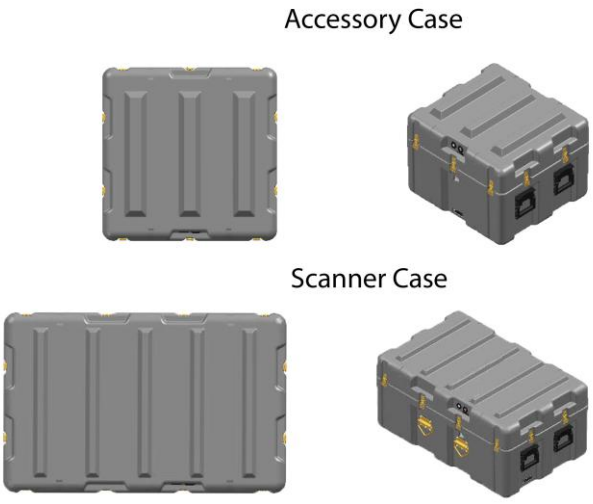
Features:
- True Flat Scan Path™
- Up to 90 plates per hour
- One moving part
- No rollers
- Artifact-free images
- Built-in QA software
- On-board diagnostics
- Superior cassette construction

READER COMPUTED RADIOGRAPHY
PART # VERTX
NSN 6525015645639

VERTX WITH MINX-RAY UNIT

MinX-Ray Unit Not Included

PANASONIC TOUGHBOOK WITH DVD RW
PART # CF-52
NSN 7010015392249



ACCESSORY & SCANNER CASES

READER COMPUTED RADIOGRAPHY
PHYSICAL & ENVIRONMENTAL SPECIFICATIONS

Item Dimensions	**Height (Inches)**	**34**
	Width (Inches)	**20**
	Length (Inches)	**9**
	Cube (Cubic Feet)	**3.5417**
	Weight	**59 lbs**
Ship Dimensions	**Height (Inches)**	**43**
	Width (Inches)	**28**
	Length (Inches)	**20**
	Cube (Cubic Feet)	**13.9352**
	Weight	
Storage Temp		**160 °F**
Operating Temp		**32 to 105 °F**
Storage Humidity		**15 to 95%**
Operating Humidity		**15 to 95%**
Amps		**3.5 max**
Watts		**1610 max**
Power Requirements	**100-240 VAC, 47-63 Hz**	
Notes	**Scan Cycle Time:** **72 plates per hour (14 by 17 cassettes)** **40 second access time (14 by 17 plate)** **50 second cycle 14 by 17 @ 200 micron scan resolution** **Bit Depth Resolution:** **16 bits/pixel source file** **65k shades of gray** **Computer Configuration:** **Pentium 4 Class** **40 GHD 1 Gb RAM (minimum)** **Windows XP or Vista** **USBII high speed interface** **1280 by 1024 monitor setting** **700 to 1 contrast ratio (minimum)**	

READER COMPUTED RADIOGRAPHY
ACCESSORIES & CONSUMABLES - STARTUP

NSN	Notes	Nomenclature	MFR PN iCRco	DIST PN MinXRay, Inc.	QTY	UI	Unit Price	Total Price	Shelf Life Mon.
6525015645639		Reader Computed Radiography	DSC-VTX-G00-H00		1	EA	$73,811.00	$73,811.00	N/A
6130015928093		Power Supply Uninterruptible	900-0125		1	EA	Incl w/NSN 5639	Incl w/NSN 5639	N/A
6525015749493		Cap Grid Computed Radiography 14 X 17	RENIA GRID CAP 14X17	Renia Grid Cap 14 X 17	1	EA	Incl w/NSN 5639	Incl w/NSN 5639	N/A
6525015749619		Cap Grid Computed Radiography 10 X 12	RENIA GRID CAP 10X12	Renia Grid Cap 10 X 12	1	EA	Incl w/NSN 5639	Incl w/NSN 5639	N/A
6525015749909		Cassette Computed Radiography 10X12	500-0002-09	iCRco 10X12 CASS	4	EA	Incl w/NSN 5639	Incl w/NSN 5639	N/A
6525015750039		Cassette Computed Radiography 14 X 17	500-0002-08	iCRco 14X17 CASS	4	EA	Incl w/NSN 5639	Incl w/NSN 5639	N/A
6525015929307		Conversion Mounting Suspension Kit VertX	50094-01	Suspension Kit	1	EA	Incl w/NSN 5639	Incl w/NSN 5639	N/A
6525015929416		Monitor, High Resolution FIMI 2MP	900-0140-03	Monitor Ampro 2MP	1	EA	Incl w/NSN 5639	Incl w/NSN 5639	N/A
6525015929473		Test Tool Computed Radiography	EZCR/DR DIN	EZCR/DR DIN	1	EA	Incl w/NSN 5639	Incl w/NSN 5639	N/A
6525015998096		Switch Computed Radiography Reader 5-Port Networking	5 PORT SWITCH	5 Port Switch	1	EA	Incl w/NSN 5639	Incl w/NSN 5639	N/A
6525016009717		Vertx Scanner Case	VRTX SCANNER CASE	Vertx Scanner Case	1	EA	Incl w/NSN 5639	Incl w/NSN 5639	N/A
6525016010809		Case Monitor Computed Radiography	VRTX ACC CASE 2	Vrtx Acc Case 2	1	EA	Incl w/NSN 5639	Incl w/NSN 5639	N/A
6525016010810		Case Accessory Reader VertX Laptop	VRTX ACC CASE	Vrtx Acc Case	1	EA	Incl w/NSN 5639	Incl w/NSN 5639	N/A
6525016011615		Stand Computed Raiography Reader 21x11x1	500-0206-01	Vertx Base Stand	1	EA	Incl w/NSN 5639	Incl w/NSN 5639	N/A
6525016011623		VertX CR 500-0176-01	500-0176-01	iCRco SCANNER	1	EA	Incl w/NSN 5639	Incl w/NSN 5639	N/A
7010016011384		Computer System Digital Laptop Dell 6400 Non-Touchscreen	900-0134-10		2	EA	Incl w/NSN 5639	Incl w/NSN 5639	N/A
NSN Not Required		Cat5E Patch Cable 100'	100’ Cat5E PATCH	Cat5E Cable 100	1	EA	Incl w/NSN 5639	Incl w/NSN 5639	N/A
NSN Not Required		Cat5E Patch Snag 15'	15’ CatE PATCH	Cat5E Cable 15	1	EA	Incl w/NSN 5639	Incl w/NSN 5639	N/A
NSN Not Required		Envelopes for CD's - 100's	ENVELOPES CD	CD Sleeves	4	100/PG	Incl w/NSN 5639	Incl w/NSN 5639	N/A
NSN Not Required		External Hard Drive 160GB	160GB HD	External HD 160GB	1	EA	Incl w/NSN 5639	Incl w/NSN 5639	N/A

ACCESSORIES & CONSUMABLES - STARTUP

NSN	Notes	Nomenclature	MFR PN iCRco	DIST PN MinXRay, Inc.	QTY	UI	Unit Price	Total Price	Shelf Life Mon.
NSN Not Required		Formatted CD's	CD FORMATTED	CD Formatted 100	4	100/PG	Incl w/NSN 5639	Incl w/NSN 5639	N/A
NSN Not Required		Patient CD/DVD Software Module	500-0112-06		1	EA	Incl w/NSN 5639	Incl w/NSN 5639	N/A
NSN Not Required		Power Cord, VertX	001-0500-01		1	EA	Incl w/NSN 5639	Incl w/NSN 5639	N/A
NSN Not Required		QPX Xscan32 Viewing License	500-0112-02		1	EA	Incl w/NSN 5639	Incl w/NSN 5639	N/A
NSN Not Required		USB External Video Module	USB EXT VID MOD	VSB-EXT	1	EA	Incl w/NSN 5639	Incl w/NSN 5639	N/A
NSN Not Required		Xscan CR Scan & Review Software	500-0112-28	iCRco Vertx Software	1	EA	Incl w/NSN 5639	Incl w/NSN 5639	N/A

READER COMPUTED RADIOGRAPHY
ACCESSORIES & CONSUMABLES - RESUPPLY

NSN	Notes	Nomenclature	MFR PN iCRco	DIST PN MinXRay, Inc.	QTY	UI	Unit Price	Total Price	Shelf Life Mon.
6130015928093		Power Supply Uninterruptible	900-0125		1	EA	$400.00	$400.00	N/A
6525015749493		Cap Grid Computed Radiography 14 X 17	RENIA GRID CAP 14X17	Renia Grid Cap 14 X 17	1	EA	$1,100.00	$1,100.00	N/A
6525015749619		Cap Grid Computed Radiography 10 X 12	RENIA GRID CAP 10X12	Renia Grid Cap 10 X 12	1	EA	$800.00	$800.00	N/A
6525015749909		Cassette Computed Radiography 10X12	500-0002-09	iCRco 10X12 CASS	1	EA	$1,046.50	$1,046.50	N/A
6525015750039		Cassette Computed Radiography 14 X 17	500-0002-08	iCRco 14X17 CASS	1	EA	$1,295.00	$1,295.00	N/A
6525015929307		Conversion Mounting Suspension Kit VertX	50094-01	Suspension Kit	1	EA	$1,495.00	$1,495.00	N/A
6525015929416		Monitor, High Resolution FIMI 2MP	900-0140-03	Monitor Ampro 2MP	1	EA	$898.00	$898.00	N/A
6525015929473		Test Tool Computed Radiography	EZCR/DR DIN	EZCR/DR DIN	1	EA	$935.66	$935.66	N/A
6525015998096		Switch Computed Radiography Reader 5-Port Networking	5 PORT SWITCH	5 Port Switch	1	EA	$75.00	$75.00	N/A
6525016009717		Vertx Scanner Case	VRTX SCANNER CASE	Vertx Scanner Case	1	EA	$1,260.00	$1,260.00	N/A
6525016010809		Case Monitor Computed Radiography	VRTX ACC CASE 2	Vrtx Acc Case 2	1	EA	$910.00	$910.00	N/A

ACCESSORIES & CONSUMABLES - RESUPPLY

NSN	Notes	Nomenclature	MFR PN iCRco	DIST PN MinXRay, Inc.	QTY	UI	Unit Price	Total Price	Shelf Life Mon.
6525016010810		Case Accessory Reader VertX Laptop	VRTX ACC CASE	Vrtx Acc Case	1	EA	$910.00	$910.00	N/A
6525016011615		Stand Computed Raiography Reader 21x11x1	500-0206-01	Vertx Base Stand	1	EA	$500.00	$500.00	N/A
6525016011623		VertX CR 500-0176-01	500-0176-01	iCRco SCANNER	1	EA	$25,515.00	$25,515.00	N/A
7010016011384		Computer System Digital Laptop Dell 6400 Non-Touchscreen	900-0134-10		1	EA	$0.00	$0.00	N/A
NSN Not Required		Cat5E Patch Cable 100'	100’ Cat5E PATCH	Cat5E Cable 100	1	EA	$96.00	$96.00	N/A
NSN Not Required		Cat5E Patch Snag 15'	15’ CatE PATCH	Cat5E Cable 15	1	EA	$28.00	$28.00	N/A
NSN Not Required		Envelopes for CD's - 100's	ENVELOPES CD	CD Sleeves	1	EA	$28.00	$28.00	N/A
NSN Not Required		External Hard Drive 160GB	160GB HD	External HD 160GB	1	EA	$180.00	$180.00	N/A
NSN Not Required		Formatted CD's	CD FORMATTED	CD Formatted 100	1	100/PG	$44.56	$44.56	N/A
NSN Not Required		Patient CD/DVD Software Module	500-0112-06		1	EA	$1,746.50	$1,746.50	N/A
NSN Not Required		Power Cord, VertX	001-0500-01		1	EA	$28.00	$28.00	N/A
NSN Not Required		QPX Xscan32 Viewing License	500-0112-02		1	EA	$1,365.00	$1,365.00	N/A
NSN Not Required		USB External Video Module	USB EXT VID MOD	VSB-EXT	1	EA	$258.00	$258.00	N/A
NSN Not Required		Xscan CR Scan & Review Software	500-0112-28	iCRco Vertx Software	1	EA	$2,765.00	$2,765.00	N/A

READER COMPUTED RADIOGRAPHY
ITEM TABLES

VertX Parts List

NSN	Part Number	Nomenclature	Qty	U/I
6525015744791	500-0162-01	Scan Head Assembly	1	EA
6525015744176	100-0749-01	Scan Head Base	1	EA
6525015744178	500-0193-01	Bezel Assembly	2	EA
6525015744184	100-0772-01	PMT Cover	2	EA
6525015744802	900-0030	Motor Controller	1	EA
6525015744808	100-0330-04	PMT Gasket	1	EA
6525015744811	040-0031-0001	Galvo Signal, Cable Harness	1	EA
6525015744837	900-0041-01	Power Module, VertX	1	EA
6525015744841	100-0691-05	Lead Screw to Pillow Block Angle	1	EA
6525015744844	100-0977-02	Machined Bezel Angle Mount	1	EA
6525015744847	900-0029	Eraser Power Supply	1	EA
6525015744850	500-0161-01	Long Mirror Assembly (complete)	1	EA
6525015744853	900-0192-01	Cambridge Galvo & Controller	1	EA
6525015744856	100-0769-04	Galvo Side Cover	1	EA
6525015744860	100-0676-01	Electronics Plate	1	EA
6525015744862	100-0774-03	Return Mirror Side cover	1	EA
6525015745569	900-0028	Quad Power Supply	2	EA
6525015747136	040-0006-0005	Power Harness	1	EA
6525015745421	100-0873-01	Angle Extrusion Stiffener	1	EA
6525015745433	016-7026-0000	Motor Controller Data Cable	1	EA
6525015745475	500-0034-02	Power Distribution Board	1	EA
6525015745480	040-0028-0001	Main Scan Head Output Harness	2	EA
6525015745489	500-0181-02	Back Brush Assembly	1	KT
6525015745500	040-0027-0001	LED Power Status, Cable Harness	1	EA
6525015745509	500-0189-01	Motor Assembly	1	EA
6525015745515	900-0061-02	Fan Filter Cover Assembly, 60 x 60	10	KT
6525015745561	500-0052-01	Eraser Board	1	EA
6525015750047	900-0168-04	1m USB Cable	4	EA
6525015749158	040-0013-0001	Reed Switch, Cable Harness	2	EA
6525015747144	100-0952-01	USB Adapter Mount	1	EA
6525015747251	900-0061-01	Fan, 60 x 60	10	KT
6525015747162	040-0014-0011	LED Harness	2	EA
6525015747563	500-0158-01	Turning Mirror Assembly	2	EA
6525015747169	040-0030-0001	Jitter Signal, Cable Harness	1	EA
6525015747582	100-0975-01	Bezel Edge Molding	2	EA
6525015747208	900-0060-02	Brush kit	1	KT
6525015747712	100-0976-01	Bezel Overlay	2	EA
6525015747219	900-0078-04	3/8" Caterpillar Brush	1	EA
6525015749180	040-0029-001	Laser Power Cable	2	EA
6525015750001	500-0159-01	Small Stationary Mirror Assembly	2	EA
6525015749981	100-0824-03	Anti Jitter Bracket	3	EA
6525015750019	900-0236-03	Velcro Cable Baffle	1	EA
6525015747275	900-0168-01	USB Cable - USB A to USB B-Mini	2	EA
6525015750053	500-0188-01	Bearing Mount Assembly	1	EA
6525015750111	900-0061-03	Fan Filter, 60 x 60	1	KT
6525015752943	500-0190-01	Push Rod Assembly	1	EA
6525015750144	100-0802-02	Return Mirror	2	EA
6525015749114	500-0114-01	USB Board	2	EA
6525015750182	500-0045-01	LED Status PCBA	2	EA
6525015749740	100-0877-03	USB Light Gasket	2	EA
6525015750673	100-0877-01	Foam Gasket, Dust Cover Assembly	1	EA
6525015750680	100-0807-01	Adjustable Mirror Base	2	EA

VertX Parts List

NSN	Part Number	Nomenclature	Qty	U/I
6525015750688	500-0051-01	Anti Jitter Board	1	EA
6525015750742	100-0974-01	Bezel Blocks	2	EA
6525015748659	100-0804-02	3mm Small Mirror	2	EA
6525015749725	100-0682-03	Magnet Switch Bracket	1	EA
6525015748663	900-0258-01	Caterpillar Brush Light Seal	2	EA
6525015750752	900-0062-02	Reed Switch	1	EA
6525015749329	900-0283-01	Power Module Fuse	1	EA

X-RAY APPARATUS LOW CAPACITY PORTABLE

TOC

MANUFACTURER: MINXRAY, INC.
Manufacturer Model# MINXRAY HF 120/60H POWER PLUS
Manufacturer's PHONE: (847) 564-0323 FAX: (847) 564-9040
Manufacturer's Website: <http://www.minxray.com>

Item Web Link:
<http://www.minxray.com/military_film_compare.html>

AAC 'L' ITEM NSN 6525-01-523-1989

UAs: 262A, 905C, N334

USAMMA POC: Customer Relations Management 301-619-1288/4301 - DSN 343-1288/4301
UNIT PRICE: $21,657.60

System Description: The Minxray portable medical x ray system package is a new standard for field deployable and battlefield portable diagnostic radiography. This system consists of the Model HF120/60HPPWV PowerPlus high frequency portable x ray unit, the Model XGSMKIVLW gas spring portable mobile stand with 16-inch wheels, and the Model HF100HSTC Hardigg mil spec system transport case.

Features:

- The HF120/60HPPWV PowerPlus produces 40-120 kVDC and over 200 mAs. This unique High Burst design enables output between 60-20 mA, even when used with 120 VAC input. This x-ray unit can be used worldwide with any voltage input between 100 and 260 VAC, 50/60 Hz.
- The XGSMKIVLW stand offers a unique design that converts within seconds between its folded, two-shelled transport mode and a fully functional x ray stand. The x ray unit can be easily positioned for any view with both ambulatory and non-ambulatory patients.
- The entire x ray system (x ray unit and stand) weighs 96.5 lbs (43.8 kg) and is compatible with digital and analog imaging media.
- The MinXray's unit features wave-rectified, high-frequency electronic platforms and possesses the highest power-to-weight ratios available.
- This unit also features fivememory stations to store and easily recall frequently used exposure techniques.
- This system has the ability to switch between mAs and actual exposure time. The collimator can be rotated by the technician so that any shot can be properly oriented.
- The most power available in a portable x ray unit.

GAS SPRING MOBILE STAND WITH 16 INCH WHEELS
PART # XGSMKIVLW
NSN 6525015231989

HIGH FREQUENCY X RAY UNIT
PART # HF120/60HPPWV

RADIOGRAPHIC IMAGE

HARDIGG MILITARY SPEC SYSTEM TRANSPORT CASE
PART # HF100HSTC
NSN 6525015235953

X-RAY APPARATUS LOW CAPACITY PORTABLE
PHYSICAL & ENVIRONMENTAL SPECIFICATIONS

Item Dimensions	**Height (Inches)**	**9.5**
	Width (Inches)	**8.8**
	Length (Inches)	**16**
	Cube (Cubic Feet)	**0.7741**
	Weight	**96.5 lbs**
Ship Dimensions	**Height (Inches)**	**33**
	Width (Inches)	**27**
	Length (Inches)	**61**
	Cube (Cubic Feet)	**31.4531**
	Weight	**221.5 lbs**
Storage Temp		
Operating Temp		
Storage Humidity		
Operating Humidity		
Amps		
Watts		**2,280 @ 120V, 2070 @230V**
Power Requirements	**Line Voltage: 100-260 VAC, 50/80 Hz**	
Notes	**X Ray Tube: Superior SXR-130-15-1.2** **Focal Point: 1.2 mm** **Anode Heat Storage: 65 KHU** **Total Filtration incl. Collimator: 3.2 mm Al equivalent** **Frequency: 80 kHz** **Line Voltage: 100-260 VAC, 50/80 Hz** **Fuse Rating: 30 A** **Electrical Consumption: 19 A @ 120 V; 9 A @ 230 V** **Maximum Consumption: 3.5 kVa ± 10%**	

X-RAY APPARATUS LOW CAPACITY PORTABLE
ACCESSORIES & CONSUMABLES - STARTUP

NSN	Notes	Nomenclature	MFR PN MinXRay, Inc.	DIST PN	QTY	UI	Unit Price	Total Price	Shelf Life Mon.
6525015231989		X-Ray Apparatus Low Capacity Portable	MINXRAY HF 120/60H POWER PLUS		1	EA	$21,657.60	$21,657.60	N/A
6150015287146	See Additional Note Below	Cable Assembly Special Purpose Electrical 20' (No Plug)	SJT-14/3 HG		2	EA	Incl w/NSN 1989	Incl w/NSN 1989	N/A
6525015235950		Gas Spring Portable Mobile Stand w/16" Wheels	XGSMKIV LW		1	EA	Incl w/NSN 1989	Incl w/NSN 1989	N/A
6525015235953		Mil Spec Hardigg Sys Transport Case	HF100HSTC		1	EA	Incl w/NSN 1989	Incl w/NSN 1989	N/A
6525015242977		Exposure Cord (25' Coiled)	279-295		1	EA	Incl w/NSN 1989	Incl w/NSN 1989	N/A

X-RAY APPARATUS LOW CAPACITY PORTABLE
ACCESSORIES & CONSUMABLES - RESUPPLY

NSN	Notes	Nomenclature	MFR PN MinXRay, Inc.	DIST PN	QTY	UI	Unit Price	Total Price	Shelf Life Mon.
6150015287146	See Additional Note Below	Cable Assembly Special Purpose Electrical 20' (No Plug)	SJT-14/3 HG		1	EA	$19.27	$19.27	N/A
6525015235950		Gas Spring Portable Mobile Stand w/16" Wheels	XGSMKIV LW		1	EA	$2,921.10	$2,921.10	N/A
6525015235953		Mil Spec Hardigg Sys Transport Case	HF100HSTC		1	EA	$2,250.00	$2,250.00	N/A
6525015242977		Exposure Cord (25' Coiled)	279-295		1	EA	$23.53	$23.53	N/A

X-RAY APPARATUS LOW CAPACITY PORTABLE
ADDITIONAL NOTE:

Start-up quantity or unit of issue is different from Resupply quantity/unit of issue.