

DRX-COMPASS X-RAY SYSTEM

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DETECTORS

Name	Conversion Screen	Communication
Focus 35C	Deposited CsI (TI)	Wireless Only with Charging
Focus 43C	Deposited CsI (TI)	Wireless Only with Charging
Focus HD 35	Deposited CsI (TI)	Wireless Only with Charging
Focus HD 43	Deposited CsI (TI)	Wireless Only with Charging
DRX-Plus 3543C	Deposited CsI (TI)	Wireless/Tethered
DRX-Plus 4343C	Deposited CsI (TI)	Wireless/Tethered
DRX-Plus 2530C	Deposited CsI (TI)	Wireless (tabletop application only)
Lux 35	Deposited CsI (TI)	Wireless/Tethered

See individual detector component specifications for full details.

TUBE POSITIONING DEVICE

Model →	OTC-P (OVERHEAD TUBE CRANE)	TS-T (FLOOR MOUNT)
Type	<ul style="list-style-type: none"> • 5 axes of motion • Manual movement in all 5 axes of motion, • Motorized movement standard: Vertical • Motorized movement optional: Alpha Rotation / Longitude / Transverse • Motorized movements support auto tracking, auto centering. *All motion can be locked at any position (except Tube rotation around the vertical axis) 	<ul style="list-style-type: none"> • 6 axes of motion • Manual movement in all 6 axes of motion, • Motorized movement optional: Vertical / Alpha Rotation • Motorized movements support auto tracking, auto centering. • *All motion can be locked at any position
Range of movement	<ul style="list-style-type: none"> • Tube rotation around the horizontal axis relative to zero (collimator pointing down) is +175 degrees to -175 degrees • Tube rotation around the vertical axis relative to zero is + 170 degrees to - 155 degrees • Range of telescope (vertical travel) is 150 cm (59 in.) • Longitudinal rail: <ul style="list-style-type: none"> -- Length = Standard 4 m (13.1 ft), 1m (3.3 ft) extension rail option available -- Movement range: Standard 3.1 m (10.2 ft) (manual movement). • Transverse Bridge rail: <ul style="list-style-type: none"> -- Length = 3.2 m (10.5 ft) / 2.8 m (9.2 ft) -- Movement range: 2.2 m (7.2 ft) / 1.8 m (5.9 ft) (manual movement). 	<ul style="list-style-type: none"> • Tube rotation around the horizontal axis relative to zero (collimator pointing down) is +140 degrees to -140 degrees • Tube rotation around the vertical axis relative to zero is + 180 degrees to - 180 degrees • Vertical travel: 154 cm (60.6 in.) • Longitudinal travel: <ul style="list-style-type: none"> -- 10 ft. track: 242cm (95.4 in.) -- 12 ft. track: 303cm (119.5in.) • Transverse Travel: ± 120 mm (± 4.7in.) • Trunnion Mount: +45° to -20° tube rotation
Controls	<ul style="list-style-type: none"> • Single handle control and individual controls of longitudinal, transversal, vertical, and rotational directions; auto-centering and auto-tracking controls 	<ul style="list-style-type: none"> • Single handle control and individual controls of longitudinal, transversal, vertical, and rotational directions; auto-centering and auto-tracking controls

Model →	OTC-P (OVERHEAD TUBE CRANE)	TS-T (FLOOR MOUNT)
Display	<ul style="list-style-type: none"> Type: LCD touch-screen Size: 10.1 inch Resolution:1280 x 800 Color Depth:24 bit Display contents: SID, Tube Rotation Angle Mirror Screen of the Console Software and allow same operations as the console side software. 	<ul style="list-style-type: none"> Type: LCD touch-screen Size: 10.1 inch Resolution:1280 x 800 Color Depth:24 bit Display contents: SID, Tube Rotation Angle Mirror Screen of the Console Software and allow same operations as the console side software.
Weight	300 kg (661 lb)	318 kg (701 lb)
Optional Accessories	IR Remote	IR Remote, Table Bucky Tracker, Floor Rail SID Feedback
Auto Movements	<ul style="list-style-type: none"> Automatic Tracking of the Overhead Tube Assembly (X-ray beam axis) to follow the Table Bucky or Wall Stand Bucky position Automatic Centering and perpendicular alignment of the Overhead Tube Assembly (X-ray beam axis) to the Table Bucky or the Wall Stand Bucky position. (Fully Automated only) Automatic positioning in 3 pre-defined position (Fully Automated only) Accuracy: +/- 5 mm 	<ul style="list-style-type: none"> Automatic Tracking of the Tube Assembly (X-ray beam axis) to follow the Table Bucky or Wall Stand Bucky height Automatic Centering(Limited) and perpendicular alignment of the Tube Assembly (X-ray beam axis) to the Wall Stand Bucky or the Table Bucky position. (Limited, manual movement in transverse and longitudinal rail) Accuracy: +/- 5 mm
Anti-collision	<ul style="list-style-type: none"> Yes for motorized movements 	<ul style="list-style-type: none"> Yes for motorized movements

RADIOGRAPHIC X-RAY TUBES

Model →	Canon E7242X*	Canon E7252X	Canon E7254FX
Heat Units (Anode)	200,000	300,000	400,000
Heat Units (Housing)	1,250,000	1,250,000	1,339,000
Anode Size	3 inches	3 inches	4 inches
High Speed Rotation	No	Yes	Yes
Anode Speed	Minimum 3200 min ⁻¹ (60 Hz)	Minimum 9700 min ⁻¹ (180 Hz)	Minimum 9700 min ⁻¹ (180 Hz)
Nominal Input Energy (at 0.1s)	Small Focus: 18 kW Large Focus: 50 kW	Small Focus: 27 kW Large Focus: 75 kW	Small Focus: 40 kW Large Focus: 102 kW
Voltage Range	40 to 125 kV	40 to 150 kV	40 to 150 kV
Focal Spot (S/L)	0.6/1.5 mm	0.6/1.2 mm	0.6/1.2 mm
Target Angle	14 degrees	12 degrees	12 degrees
Tube cooling rate (Housing)	15 kHU / min	16 kHU / min	16 kHU / min
Tube cooling rate (Anode)	667 HU / s	667 HU / s	1664 HU / s
Inherent filtration	0.9 mm Al / 75 kV	0.9 mm Al / 75 kV	0.8 mm Al / 75 kV
Thermal Switch (Over load protection)	Yes	Yes	Yes

* Canon E7242X only be used Floor mount system

GENERATORS – THREE PHASE INPUT POWER

Dimensions:

CGF-*: Width 650 mm (25.6 in.), Depth 343 mm (13.5 in.), Height 618 mm (24.3 in.) / Stored Energy 650mm(25.6 in.),516mm(20.3 in.),995mm(39.2 in.)

CGN-*: Width 650 mm (25.6 in.), Depth 343 mm (13.5 in.), Height 428 mm (16.9in.)

Manufactured by: Carestream Health

	40 kW [†]	50 kW [†]	65 kW [†]	80 kW [†]
3Φ Input Power 380/400/480 VAC (±10%) 5 A, 50/60 Hz	N/A	Generator MODEL: CGF-80 or CGN-50 Momentary Power: 65 kVA (SW limitation for CGF-80) Frequency: ≥ 240 kHz <u>Performance:</u> mA: 10-630 (R'20 Steps) kVp: 40 – 150 (1 kV Step) 500 mA @ 100 kV 630 mA @ 60 kV mAs [±] : 0.1 – 630 (R'20 Steps) Exposure Time: 0.001 – 6.3 s (R'20 Steps) mA Accuracy: +/- (10 % +1) mA kVp Accuracy: +/- (5 % +1) kVp (5 ms after the beginning of the exposure) mAs Accuracy: +/- (10 % + 0.2) mAs Exposure Time Accuracy: +/- (10 % + 1.0) ms	Generator MODEL: CGF-80 or CGN-80 Momentary Power: 85 kVA (SW limitation for CGF-80 and CGN-80) Frequency: ≥ 240 kHz <u>Performance:</u> mA: 10-800 (R'20 Steps) kVp: 40 – 150 (1 kV Step) 630 mA @ 100 kV 800 mA @ 60 kV mAs [±] : 0.1 – 800 (R'20 Steps) Exposure Time: 0.001 – 6.3 s (R'20 Steps) mA Accuracy: +/- (10 % +1) mA kVp Accuracy: +/- (5 % +1) kVp (5 ms after the beginning of the exposure) mAs Accuracy: +/- (10 % + 0.2) mAs Exposure Time Accuracy: +/- (10 % + 1.0) ms	Generator MODEL: CGF-80 or CGN-80 Momentary Power: 105 kVA Frequency: ≥ 240 kHz <u>Performance:</u> mA: 10-1000 (R'20 Steps) kVp: 40 – 150 (1 kV Step) 800 mA @ 100 kV mAs [±] : 0.1 – 1000 (R'20 Steps) Exposure Time: 0.001 – 6.3 s (R'20 Steps) mA Accuracy: +/- (10 % +1) mA kVp Accuracy: +/- (5 % +1) kVp (5 ms after the beginning of the exposure) mAs Accuracy: +/- (10 % + 0.2) mAs Exposure Time Accuracy: +/- (10 % + 1.0) ms

<p>3Φ Input Power 208/220/240 VAC (+10% -5%) 5 A, 50/60 Hz</p>	<p>N/A</p>	<p><u>Generator MODEL: CGF-50-2</u> Momentary Power: 65 kVA Frequency: ≥ 240 kHz <u>Performance:</u> mA: 10-630 (R'20 Steps) kVp: 40 – 150 (1 kV Step) 500 mA @ 100 kV 630 mA @ 60 kV mAs†: 0.1 – 630 (R'20 Steps) Exposure Time: 0.001 – 6.3 s (R'20 Steps) mA Accuracy: +/- (10 % + 1) mA kVp Accuracy: +/- (5 % + 1) kVp (5 ms after the beginning of the exposure) mAs Accuracy: +/- (10 % + 0.2) mAs Exposure Time Accuracy: +/- (10 % + 1.0) ms</p>	<p>N/A</p>	<p>N/A</p>
<p>1Φ Input Power 200 to 260 VAC (+10% -5%) 2 A, 50/60 Hz</p>	<p><u>Generator MODEL: CGF-40-1</u> Momentary Power: 55 kVA Frequency: ≥ 240 kHz <u>Performance:</u> mA: 10-500 (R'20 Steps) kVp: 40 – 150 (1 kV Step) 500 mA @ 100 kV 630 mA @ 60 kV mAs†: 0.1 – 500 (R'20 Steps) Exposure Time: 0.001 – 6.3 s (R'20 Steps) mA Accuracy: +/- (10 % + 1) mA, if time < 100 ms +/- (5 % + 1) mA, if time ≥ 100 ms kVp Accuracy: +/- (5 % + 1) kVp (5 ms after the beginning of the exposure) mAs Accuracy: +/- (10 % + 0.2) mAs, if time < 100 ms +/- (5 % + 0.2) mAs, if time ≥ 100 ms</p>	<p>N/A</p>	<p>N/A</p>	<p>N/A</p>

	Exposure Time Accuracy: +/- (10 % + 1) ms, if time < 100 ms +/- (5 % + 1) ms, if time ≥ 100 ms			
SE “Stored Energy” Type 1Φ Input Power 100 to 130 VAC (±10%) 220 to 250 VAC (±10%) 2.5A, 50/60 Hz	N/A	Generator MODEL: CGF-50-SE Momentary Power: 1.6 kVA Frequency: ≥ 240 kHz Performance: mA: 10-630 (R'20 Steps) kVp: 40 – 150 (1 kV Step) 500 mA @ 100 kV 630 mA @ 60 kV mAs‡: 0.1 – 630 (R'20 Steps) Exposure Time: 0.001 – 6.3 s (R'20 Steps) mA Accuracy: +/- (10 % + 1) mA, if time < 100 ms +/- (5 % + 1) mA, if time ≥ 100 ms kVp Accuracy: +/- (5 % + 1) kVp +/- (2 % + 1) kVp between 70-85 kV (5 ms after the beginning of the exposure) mAs Accuracy: +/- (10 % + 0.2) mAs, if time < 100 ms +/- (5 % + 0.2) mAs, if time ≥ 100 ms Exposure Time Accuracy: +/- (10 % + 1) ms, if time < 100 ms +/- (5 % + 1) ms, if time ≥ 100 ms	N/A	N/A

‡ In AEC mode the mAs is limited to 500.

† Max kW output may be limited if the generator is paired with a low speed x-ray tube.

TABLES – FIXED POSITION

Model →	QT-750 →	QT-740
Type	Elevating, Four-way float top	Non-elevating, Four-way float top
Table Height	Raised 825 mm ± 5 mm Lowered 550 mm ± 5 mm	725 mm ± 5 mm
Table Weight	226.8 kg (500 lb)	158.5 kg (350 lb)
Max Patient Weight	295 kg (650 lb)	295 kg (650 lb)
Tabletop Size	Length x Width: 2200 x 900 ± 40 mm	Length x Width: 2200 x 900 ± 40 mm
Imaging Area	Length x Width: 1575 x 725 mm ± 25 mm	Length x Width: 1575 x 725 mm ± 25 mm
Tabletop Movement	Longitudinal 770 mm ± 5 % Transverse ± 152.5 mm ± 5 %	Longitudinal 770 mm ± 5 % Transverse ± 152.5 mm ± 5 %
Tabletop Material	Fiber Resin (phenolic)	Fiber Resin (phenolic)
Tabletop X-ray Density:	< 1.2 mm Al	< 1.2 mm Al
Receptor Longitudinal Travel	340 mm (13.4 in.)	340 mm (13.4 in.)
Motion Controls	Foot pedal UP and DOWN Foot pedal FLOAT (2X) Auto Center / Auto Tracking Button Option – control handles assembled on tabletop (2 types) *All motion can be locked at any position	Foot pedal FLOAT Auto Center / Auto Tracking Button Option – control handles assembled on tabletop (2 types) *All motion can be locked at any position
Grids <i>(see specs for Grids)</i>	One grid provided; additional grids optional: <ul style="list-style-type: none"> • 10:1, 44 lines per cm, center focus100cm, Interspace material: Aluminum • 10:1, 40 lines per cm, center focus100cm, Interspace material: Aluminum • 12:1, 44 lines per cm, center focus100cm, Interspace material: Aluminum 	One grid provided; additional grids optional: <ul style="list-style-type: none"> • 10:1, 44 lines per cm, center focus100cm, Interspace material: Aluminum • 10:1, 40 lines per cm, center focus100cm, Interspace material: Aluminum • 12:1, 44 lines per cm, center focus100cm, Interspace material: Aluminum

Model →	QT-750	QT-740
Bucky	<ul style="list-style-type: none"> • The grid is stationary • The grid is removable • Grid Present information provided to the console • Detector Present information provided to the console • Detector Orientation information provided to the console • Detector assembly moves out of table for extremity views without tabletop.* (* Grid remains in the table) • Support analog 	<ul style="list-style-type: none"> • The grid is stationary • The grid is removable • Grid Present information provided to the console • Detector Present information provided to the console • Detector Orientation information provided to the console • Detector assembly moves out of table for extremity views without tabletop.* (* Grid remains in the table) • Support analog
Tabletop-to-Detector Plane Distance	80 mm (3.2 in.)	80 mm (3.2 in.)
Optional Accessories	<ul style="list-style-type: none"> • AEC 3-cell ion chamber • Patient hand grips • Control handles • Compression strap • Lateral cassette holder 	<ul style="list-style-type: none"> • AEC 3-cell ion chamber • Patient hand grips • Control handles • Compression strap • Lateral cassette holder
Auto Tracking <i>X-ray tube tracks Bucky up/down and longitudinal manual movement.</i>	Support	Support
Obstruction Sensors	Yes	N/A

WALL STANDS

Model →	WS-NT (NO TILTING)	WS-T (MANUAL TILTING)
Range of Movement	Up and Down: 1690 mm	Up and Down: 1690 mm (Bucky Horizontal Status) 1475 mm (Bucky Vertical Staus) Bucky Tilting: +90 to 0 to -20 degrees
Bukcy Lowest Position (center line)	340 mm	Bucky Vertical: 320 mm Bucky Horizontal: 480 mm (top sufurce of the bucky cover)
Bucky Tilt	No	Yes
Motorization (Optional)	Motorized motion for vertical Support Automatic LLI	Motorized motion for vertical Support Automatic LLI
Weight	approx. 90.7 kg (200 lb)	approx. 188 kg (415 lb)
Surface-to-Detector Plane Distance	43 mm (1.7 in.)	43 mm (1.7 in.)
Motion Controls	Vertical Lock Release Button Vertical motorized moving Buttons (optional) Auto Center / Auto Tracking Button *All motion can be locked at any position	Vertical Lock Release Button Vertical motorized moving Buttons (optional) Tilt Lock Release Handle Auto Center / Auto Tracking Button *All motion can be locked at any position (except the Bucky Tilt)
Front Cover Density	< 1.0 mm Al	< 1.0 mm Al
Receptor Front Cover Material	Fiber Resin (phenolic)	Fiber Resin (phenolic)
Bucky	<ul style="list-style-type: none"> • The grid is stationary • The grid is removable • Grid Present information provided to the console • Detector Present information provided to the console • Detector Orientation information provided to the console • Support analog 	<ul style="list-style-type: none"> • The grid is stationary • The grid is removable • Grid Present information provided to the console • Detector Present information provided to the console • Detector Orientation information provided to the console • Support analog

Model →	WS-NT (NO TILTING)	WS-T (MANUAL TILTING)
Grids <i>(see specs for Grids)</i>	<p>One grid provided; additional grids optional: (Grid line direction = Landscape)</p> <ul style="list-style-type: none"> • General Purpose: 10:1, 44 lines per cm, center focus130cm, Interspace material: Aluminum 10:1, 40 lines per cm, center focus130cm, Interspace material: Aluminum 12:1, 44 lines per cm, center focus130cm, Interspace material: Aluminum • Near: 10:1, 44 lines per cm, center focus100cm, Interspace material: Aluminum 10:1, 40 lines per cm, center focus100cm, Interspace material: Aluminum 12:1, 44 lines per cm, center focus100cm, Interspace material: Aluminum • Far & LLI: 12:1, 44 lines per cm, center focus180cm, Interspace material: Aluminum 	<p>One grid provided; additional grids optional: (Grid line direction = Landscape)</p> <ul style="list-style-type: none"> • General Purpose: 10:1, 44 lines per cm, center focus130cm, Interspace material: Aluminum 10:1, 40 lines per cm, center focus130cm, Interspace material: Aluminum 12:1, 44 lines per cm, center focus130cm, Interspace material: Aluminum • Near: 10:1, 44 lines per cm, center focus100cm, Interspace material: Aluminum 10:1, 40 lines per cm, center focus100cm, Interspace material: Aluminum 12:1, 44 lines per cm, center focus100cm, Interspace material: Aluminum • Far & LLI: 12:1, 44 lines per cm, center focus180cm, Interspace material: Aluminum
Optional Accessories	<ul style="list-style-type: none"> • AEC 3 FIELD CHAMBER • Patient “Side Mounted” Handgrips • Patient “Overhead” Handgrip 	<ul style="list-style-type: none"> • AEC 3 FIELD CHAMBER • Patient “Side Mounted” Handgrips • Patient “Overhead” Handgrip
Auto Tracking <i>X-ray tube tracks Wall Stand up/down manual movement.</i>	Support	Support
Anti-collision	Yes for motorized movements	Yes for motorized movements

COLLIMATORS

Model →	MC150	R 221/A DHHS	R 221 ACS DHHS
Manufactured by	Carestream	Ralco	Ralco
Type	Manual shutter control	Manual shutter control	Automatic shutter control
Light Output	> 160 lux at 100 cm	> 160 lux at 100 cm	> 160 lux at 100 cm
Lamp Type	LED	LED	LED
Inherent Filtration	2.0 mm Aluminum equivalent at 75 kV	2.0 mm Aluminum equivalent at 75 kV	2.0 mm Aluminum equivalent at 75 kV
Added special filtration	Internal: <ul style="list-style-type: none"> • No filtration • 0.1 mm Cu + 1 mm Al (Al eq. 2.8 mm) • 0.2 mm Cu + 1 mm Al (Al eq. 5.6 mm) • 2 mm Al (These filtration options can be selected by the integrated filterwheel)	External: <ul style="list-style-type: none"> • 0.1 mm Cu + 1 mm Al • 0.2 mm Cu + 1 mm Al • 1 mm Al (These filtration options can be added to the rail of the collimator)	Internal: <ul style="list-style-type: none"> • No filtration • 0.1 mm Cu + 1 mm Al (Al eq. 2.8 mm) • 0.2 mm Cu + 1 mm Al (Al eq. 5.6 mm) • 1 mm Al + 1 mm Al support (These filtration options appear with each press of the Special Filtration button)
Max Rating	150 kVp	150 kVp	150 kVp
X-ray Proofing	< 30 mR/h with X-ray beam = 150 kVp/4 mA. EN 60601-1-3 par. 29.204.3	< 30 mR/h with X-ray beam = 150 kVp/4 mA. EN 60601-1-3 par. 29.204.3	< 30 mR/h with X-ray beam = 150 kVp/4 mA. EN 60601-1-3 par. 29.204.3
PBL	N/A	N/A	Support
Optional Accessories	<ul style="list-style-type: none"> • Filter Rail • Embedded filter • Blade feedback 	<ul style="list-style-type: none"> • Filter Rail 	<ul style="list-style-type: none"> • Filter Rail • Blade feedback

GRIDS

	40L/cm(103L/inch) 10:1		44L/cm 10:1		44L/cm 12:1		200L/inch 10:1	
	Table	Wall Stand	Table	Wall Stand	Table	Wall Stand	Table	Wall Stand
Manufactured by	JPI	JPI	JPI	JPI	JPI	JPI	JPI	JPI
Focus Range, SID	34 - 44 in.	40 - 72 in.	100 cm	130 cm	100 cm	180 cm	34 - 44 in.	40 - 72 in.
Nominal Focal Distance	100 cm	130 cm	100 cm	130 cm	100 cm	180 cm	100 cm	130 cm
Resolution, Lines/cm [L/in]	40 [102]	40 [102]	44 [112]	44 [112]	44 [112] Or Landscape	44 [112]	80 [203]	80 [203]
Ratio	10:1	10:1	10:1	10:1	12:1	12:1	10:1	10:1
Interspacer Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Cover Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum

IMAGING WORKSTATION (DRX DIGITAL SYSTEMS)

- The single operator console integrates generator settings, detector controls, and image delivery and includes a touch screen interface plus keyboard, mouse and barcode reader. It is powered by sophisticated workflow and image processing software.
- Software, Image Processing, and DICOM output by Carestream Health

Console	
PC Hardware	<ul style="list-style-type: none"> • HP Engage Flex Pro with Intel Core i3-8100 3.6 GHz • Memory 16 GB • Hard drive 1TB or more; • 10/100/1000 Base network interface • DVD-RW drives • Microsoft Windows Embedded Standard 10
Data Input	Barcode scanner for patient registration and wireless detector enable/disable
Patient data entry	<ul style="list-style-type: none"> • Touch-screen monitor; keyboard, bar code or DICOM work list through HIS/RIS (optional) • Procedure Code Mapping software to automatically map RIS codes to specific views for each examination
Image Storage Capacity	<ul style="list-style-type: none"> • At least 10000 images can be saved for retransmission or reprocessing. Images can be protected; otherwise they are reclaimed on a FIFO (first in, first out) basis. Images can be saved to removable media on a DVD-RW drive.
DICOM 3.0 compliance	DICOM Store: Comply; DICOM Print: Comply; DICOM Modality Performed Procedure Step (option); DICOM Store Commit: Comply
Image data output	12-bit log, 14.6 MB
Software Included	<ul style="list-style-type: none"> • EVP-Plus Image Processing • CD/DVD Image Burning • DICOM Modality Worklist • IHE Scheduled Workflow and Patient Information Reconciliation

<p>Image Processing</p>	<ul style="list-style-type: none"> • High-order, multi-frequency image processing; high-contrast and low-contrast visualization of bone and soft tissue • Consistent fixed-look body part processing and Improved Image processing of un-known body parts • Choice of adaptive image processing “Looks” • Simple orthogonal reprocessing controls • Grid detection and suppression software automatically detects and suppresses gridline artifacts • Low Exposure Optimization reduces Quantum Noise in areas of low exposure to preserve detail • Image manipulations for Flip, Rotate, Pan, Zoom, Invert Grayscale, Brightness, Latitude, and Detail Contrast • Automated and manually adjusted Black Masking eliminates flare for better viewing • Tube&PICC (Optional) Use optimized image processing parameters to increase the contrast and edge enhancement of the chest image and make it easier to determine if the end points of tube or PICC lines are properly placed • Pneumothorax (Optional) Optimizes the image processing of a chest image so that it is easier to detect a pneumothorax. • Bone Suppression (Optional) Allows the user to view an image that minimizes the evidence of posterior ribs and clavicles, allowing a clearer view of chest organs such as the lungs. It reduces the need for a second x-ray or a CT scan, with a lesser dose to the patient as a result. • Smart Grid (Optional) The radiologic technologist may at times encounter situations that prevent the use of an anti-scatter grid. It is for situations like this, that Smart Grid can help to clean up the scatter radiation in the image • Auto image stitching function for Long-length Imaging (Optional)
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Console	
Software Features	<ul style="list-style-type: none"> • Pediatric workflow optimization (Optional) The system can be configured for pediatric use, you can also define the age ranges for pediatric patient sizes in system setting • Administrative and Analysis Software (Optional) • Soft DAP (Optional) • Smart Positioning, Smart Technique, Smart Imaging quality check (Optional) • Annotations including Text, Distance Measurements, Angles, Cobb Angle, Comments, Electronic Markers, • IHE Consistent Presentation of Images for consistent presentation of images at PACs destinations • MPPS color-scheme status for scheduled, started, completed, arrived. • Security Audit Log supports privacy regulation requirements • Symantec Critical System Protection (CSP) monitors for evidence of malicious software; provides threat protection and mitigation • Repeat/Reject Analysis and exposure data monitors staff performance, productivity, and patient care • Configurable anonymous Emergency/Trauma Defaults • Pre-configured SNOMED codes for multi-accession procedure mapping, hanging protocols, and patient orientation • Exam Tutor displays positioning icons as visual coach for each unexposed view in an exam • Preview image displayed for each acquisition; configurable for “auto-accept” and ready for next exposure. • DICOM Image transmission configurable as DX or CR modality • Image re-assignment for patient/study/view reconciliation/correction • Configurable high/low watermarks for image retention, with continuing retention of patient demographics

<p>Others</p>	<p>Acquisition and distribution of data</p> <ul style="list-style-type: none"> • Operator input: log on/log off; patient demographics (add / edit patients); patient accession number, study selection; search by patient name, ID, or visit number; output setup selection (workstations, archives, printers); RIS interface to acquire patient demographic and exam data (optional); and auto transmission of patient/exam/image data. <p>Exposure and image capture</p> <ul style="list-style-type: none"> • Detector Portable Focus, DRX- Plus Preview image is available in <4 seconds; total cycle time (processing speed) is 20 seconds. • Detector Tethered DRX-Plus Preview image is available in <4 seconds; total cycle time (processing speed) is 11 seconds. • Patient holding time for auto image stitching function for Long-length Imaging: 3 images: 10 seconds 5 images: 19 seconds • Exposure factors for each exam view (programmed default factors with manual overrides; small/medium/large patient size selection; manual technique selection; tube warm-up capability; detector calibration). • Automatic exposure control (AEC) (ion chamber selection; manual control, AEC on/off); Exam Tutor; detector array; detector rotation indicator (for wall stand only); exposure button (prep/exposure control button; audible/visible exposure indicator); and generator on/off. <p>Acquire and process digital images</p> <ul style="list-style-type: none"> • Optimize grayscale display and apply examination specific nonlinear edge enhancement with built-in perceptual tone-scale processing (PTS). • Optional EVP (enhanced visualization image processing) software is available. • Display preview image (apply image cropping; apply image multi-formatting; add image markers, flip and rotate image, enter technologist comments; accept/reject image). <p>Administrative</p> <ul style="list-style-type: none"> • System administrative (create/modify user logon and password; create/modify output printer configurations; manage image output queue; re-send image output; manage local database [view/delete patient image files]; protect selected patient/image files from reclamation; create/modify technologist comments; perform detector array calibration; generate test pattern images for output device QC). • Remote diagnostic service capability via internet connection.
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Monitor	
Type	<ul style="list-style-type: none"> • 23" Wide Multi-Touch Screen Display • Wide-screen all-in-one display presents the DR operator interface combined with the full-featured generator console
Viewable Image Area	58.42 cm (23 in) wide screen diagonally measured
Display resolution	1920 x 1080, 60 Hz
Viewing angles	Typical 178° horizontal and vertical
Monitor Footprint	With Stand 59.93 x 6.95 x 40.92 cm (23.6 x 2.7 x 16.1 in) Head only 59.93 x 4.05 x 50.7 cm (23.6 x 1.6 x 16.1 in)

ACCESSORIES (OPTIONAL)

Dose Area Product Meter	
Type	IBA (measuring chamber 120-131 ETH)
Reproducibility	<1%
Energy range	40 to 150 kV
Irradiation time resolution	0.5 ms
DAP measurement range	0.1 to 42949672,96 $\mu\text{Gy}\cdot\text{m}^2$
DAP rate measurement range	0.1 to 3000 $\mu\text{Gy}\cdot\text{m}^2/\text{s}$
Equivalent filtration	< 0.5 mm Al