

# Definium XR/f ST

Definium XR/f ST is a commercial configuration of Proteus XR/f ST

## Product Datasheet



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# Floor Mounted Tube Stand

<b>Design</b>	Manual movement, with fully counter balanced horizontal tube arm
<b>Longitudinal tube travel</b>	164 cm
<b>Vertical tube travel</b>	155 cm
<b>Focal spot-to-floor distance</b>	Variable from 40 to 195 cm
<b>X-ray tube rotation</b>	$\pm 150^\circ$ (detents at $+90^\circ$ , $0^\circ$ , $-90^\circ$ )
<b>Tube stand column rotation</b>	$\pm 180^\circ$ (detents at $+90^\circ$ , $0^\circ$ , $-90^\circ$ )
<b>Locks</b>	Electromagnetic brakes
<b>Tube arm console controls</b>	Longitudinal, transverse, vertical, angular and rotational lock control buttons

## Fixed Table

<b>Tabletop dimensions</b>	220 cm x 82,5 cm
<b>Height from floor</b>	77 cm
<b>Tabletop composition</b>	Laminated structure (according to EN 438 standard)
<b>Tabletop-to-film distance</b>	8.0 cm $\pm$ 0.4 cm
<b>Tabletop Al. equivalence</b>	< 1 mm Al. at 100 kVp
<b>Tabletop weight limit</b>	300 kg
<b>Tabletop movement</b>	Manual, 4-way floating top
<b>Longitudinal travel</b>	90 cm ( $\pm$ 45cm)
<b>Transverse tabletop travel</b>	23 cm ( $\pm$ 11.5 cm)
<b>Table locks</b>	Electromagnetic brakes
<b>Table lock controls</b>	Full-length foot switch along table base
<b>Bucky travel</b>	58.3 cm Total center-to-center
<b>Radiographic coverage</b>	180 cm (Radiotransparent area of Tabletop is 198x68cm)
<b>Grid*</b>	40 lines/cm - 10:1 linear ratio Focused at 100 cm
<b>Detector bucky Sizes</b>	35x43 cm (14x17 in.) or 43x43 cm (17x17 in.) either orientation
<b>Auto-charging system</b>	Yes
<b>Easy rotational detector</b>	Yes

\*See optional grids available

# Collimator

<b>Collimator type</b>	Manual (Multilayer, square field X-ray collimator, 6 pairs of lead- lined shutters)
<b>Field lamp</b>	24 Vdc
<b>Lighting timer</b>	30 sec.
<b>Average luminosity</b>	160 lx.
<b>Alignment light</b>	LED
<b>Inherent filtration</b>	2.0 mm aluminum (EN 60601-1-3)
<b>SID measuring</b>	Retractable measuring tape
<b>Optional external DAP</b>	External DAP with rails for a Manual collimator upgrade. Dose area meter VacuDAP 2004 inter-phased with the generator. cable 15m.

# Wall Stand

<b>Standard type</b>	Non-tilting Bucky
<b>Vertical bucky travel</b>	155 cm (from 35 to 190 cm)
<b>Vertical movement</b>	Manual, fully counterbalanced
<b>Film center to floor</b>	35 cm
<b>Surface to detector distance</b>	40 mm
<b>Detector bucky sizes</b>	35x43 cm (14x17 in.) or 43x43 cm (17x17 in.) either orientation
<b>Auto-charging system</b>	Yes
<b>Easy rotational detector</b>	Yes
<b>Grid*</b>	40 lines/cm - 12:1 - linear ratio Focused at 180 cm
<b>Al. equivalence</b>	< 0.85 mm at 100 kVp
<b>Locks</b>	Electromagnetic brakes
<b>Detector load</b>	Left or Right load
<b>Weight</b>	145 kg

\*See optional grids available

# Generator

kW maximum power	50 kW	50 kW	65 kW	80 kW
Input power	Single-Phase 220/240 VAC	Three-Phase 380/480 VAC	Three-Phase 380/480 VAC	
kVp range (1kVp steps)	40 – 125 Kvp	40 – 150 Kvp Accuracy: ±(3% + 1 kVp)	40 – 150 Kvp Accuracy: ±(3% + 1 kVp)	
mA range	10 – 650 mA (19 steps, Renard scale)	10 – 650 mA (19 steps, Renard scale)	10 – 650 mA (19 steps, Renard scale)	10 to 800mA (20 steps, Renard scale)
10, 12.5, 16, 20, 25, 32, 40, 50, 64, 80, 100, 125, 160, 200, 250, 320, 400, 500, 650, 800 (Depending on generator model) Accuracy: ±(4% + 1 mA)				
Power output (0.1s)	640 mA @ 78 kVp 500 mA @ 100 kVp 400 mA @ 125 kVp	640 mA @ 78 kVp 500 mA @ 100 kVp 400 mA @ 125 kVp 320 mA @ 150 kVp	630 mA @ 100 kVp 630 mA @ 103 kVp 500 mA @ 125 kVp 500 mA @ 130 kVp 400 mA @ 150 kVp	800 mA @ 100 kVp 640 mA @ 125 kVp 500 mA @ 150 kVp
Exposure time range	0.001 - 10 seconds Accuracy: ± (2% + 0.1 ms)			
mAs range	0.1 mAs – 500 mAs Accuracy: ± (10% + 0.2 mAs)			
High voltage ripple (Typ.)	<1kVp @ 100 kVp			
Anatomical programming	534 Anatomical Views			
Automatic line comp.	± 10%			
Low speed or high Speed (optional) Rotor Controller 1 Tube				
Microprocessor controlled				
Auto diagnostic system				
Tube overload protection monitoring of the remaining X-Ray Tube Heat Units				
Prep./ exposure x-ray hand switch				
AEC				

## X-Ray Tube

<b>Model</b>	<b>E7254FX</b>
	X-ray tube Toshiba 12° 150 kVp dual focal spots 0.6 and 1.2 mm 400KHU LS/HS 40/102 Kw (180Hz)
<b>HSS-1T</b>	High speed starter (3.000/9.000 r.p.m.) for one x-ray tube
<b>kW maximum power</b>	50 KW/ 65 KW/ 80 KW
<b>Tube type</b>	Rotating Anode (HS)
<b>Anode voltage</b>	150 kVp
<b>Speed starter</b>	(3,000 / 9,000) r.p.m.
<b>Focal spots</b>	0.6 - 1.2 mm
<b>Target angle</b>	12°
<b>Power ratings</b>	
<b>Small focal spot</b>	40 kW
<b>Large focal spot</b>	102 kW
<b>Anode heat storage capacity</b>	400 KHU

## Grids

Grid 103 Lines (40 lines/cm), 10 :1, Focalized at 1 m

Grid 103 Lines, 10 :1, Focalized at 1.5 m

Grid 103 Lines 12:1, Focalized a 1.8 m

## Options

Compression band for table

Hand grip for table

Lateral detector holder movable on tabletop

Lateral detector holder with wheels




Mechanical tracking with table docking

Movable table for wall stand-only configuration

External DAP



# Konica Minolta Wireless Detector

Product name	AeroDR 1417XE	AeroDR 1417LT	AeroDR 1417HD AeroDR 1717HD
			
Detection technology	Indirect-Conversion	Indirect-Conversion	Indirect-Conversion
Scintillator	CsI - Hi Quality Type	CsI - Standard Type	CsI - Hi Quality Type
Dimensions (mm) (width x depth X height)	383. x 460.27 x 15.9	383. x 460.27 x 15.9	384x460x15mm
weight	2.6 kg / 5.7 Lbs (including power cell)	2.5 kg / 5.5 Lbs. (including power cell)	2.6 kg / 5.7 Lbs (including power cell)
WLAN standard	IEEE 802.11a, 5 GHz IEEE 802.11n, 5 GHz/2.4GHz	IEEE 802.11a, 5 GHz IEEE 802.11n, 5 GHz/2.4GHz	IEEE 802.11a, 5 GHz IEEE 802.11n, 5 GHz/2.4GHz
DQE	at 1 mR, RQA5 65% (@ 0 cycle/mm) 51% (@ 1 cycle/mm)	at 1 mR, RQA5 42% (@ 0 cycle/mm) 35% (@ 1 cycle/mm)	at 1 mR, RQA5 72% (@ 0 cycle/mm) 56% (@ 1 cycle/mm)
MTF	Over 0.53 at 1cycle/mm	Over 0.53 at 1cycle/mm	Over 0.53 at 1cycle/mm
Pixel spacing	175μ	175μ	100μ/200μ are selectable
Image area size (mm)	348.95 x 425.25 (1994x2430 Pixels)	348.95 x 425.25 (1994x2430 Pixels)	348.8x425.6
Image pixel size (pixels)	1,994 x 2,430	1,994 x 2,430	3488x4256 (100μ) 1744x2128 (200μ)
Preview time	less than 2 seconds	less than 2 seconds	Less than 3 sec (100μ) Less than 2 sec (200μ)
Cycle time (Exposure linkage with X-ray)	(CS-7) Approx. 4 seconds (wired) Approx. 6 seconds (wireless)	(CS-7) Approx. 4 seconds (wired) Approx. 6 seconds (wireless)	(CS-7) Approx. 4 seconds (wired) Approx. 6 seconds (wireless)
AED function	Yes	Yes	Yes
Battery technology	Lithium Ion Capacitor	Lithium Ion Capacitor	Lithium Ion Capacitor
Battery life time	Same duration as panel	Same duration as panel	Same duration as panel
Battery recharging time empty to full	Within 0.5 hour with AeroDR battery charger, AeroDR battery charger 2, AeroDR I/F cable	Within 0.20 hour (13 minutes) with AeroDR Docking Station II or AeroDR I/F cable	Within 0.5 hour with AeroDR battery charger, AeroDR battery charger 2, AeroDR I/F cable3

Product name	AeroDR 1417XE	AeroDR 1417LT	AeroDR 1417HD AeroDR 1717HD
Battery performance (Exposure linkage with X-ray)	Up to 300 exposures and 8.2 hours	Up to 150 exposures and 4.1 hours *	Up to 251 exposures and 6.9 hours(100μ) Up to 309 exposures and 8.6 hours(200μ)
Battery performance (AED)	Up to 250 exposures and 6.8 hours (General X-ray)	Up to 125 exposures and 3.4 hours (General X-ray)	Up to 167 exposures and 4.6 hours(100μ) Up to 198 exposures and 5.4 hours(200μ)
Memory function inside a panel	Yes - Back-up only	Yes - Back-up only	Yes - Back-up only
Battery duration	Approx. 20 hours in standby mode	Approx. 16 hours in standby mode	Approx. 13 hours in standby mode
Water resistance	IPX6	IPX6	IPX6
Drop impact resistance	Drop test from the height of 1m has been cleared.	Drop test from the height of 1m has been cleared.	Drop test from the height of 1.2m has been cleared. (MIL- STD 810G)
Digital shock sensor	Yes	Yes	Yes
Max. withstanding load	150 kg @ 40 mm in diameter/ 300kg @ whole area	150 kg @ 40 mm in diameter/ 300kg @ whole area	180 kg @ 40 mm in diameter/ 400kg @ whole area

## CS-7 Universal Control Station Hardware

- Intel Core i5-2520 vPro processor, 3.2GHz, CD/DVD RW,
- 8GB RAM (USCAN)/ 4GB RAM
- Windows 10
- 320 GB HDD
- Intel PRO/1000 GT network connection
- 23" LCD Multi-touch monitor - 178 degree viewing angle
- 1920 x 1080 native resolution

## CS-7 Universal Control Station Software Features:

- CS-7 S/W Operating Platform
- REALISM™ advanced image processing algorithms
- Equalization, frequency & gradation processing
- Study append
- Free text annotation
- Multi-study
- Automatic masking
- Study list filter
- History search
- Image zoom
- Grid suppression
- HIPAA compliance enabling features (Audit trail, Auto log-out)
- DICOM store (x2 connections)
- DICOM modality worklist
- Procedure code mapping
- CS-7 Study combine/move
- CS-7 Departmental data analysis
- CS-7 Tube/gauze software

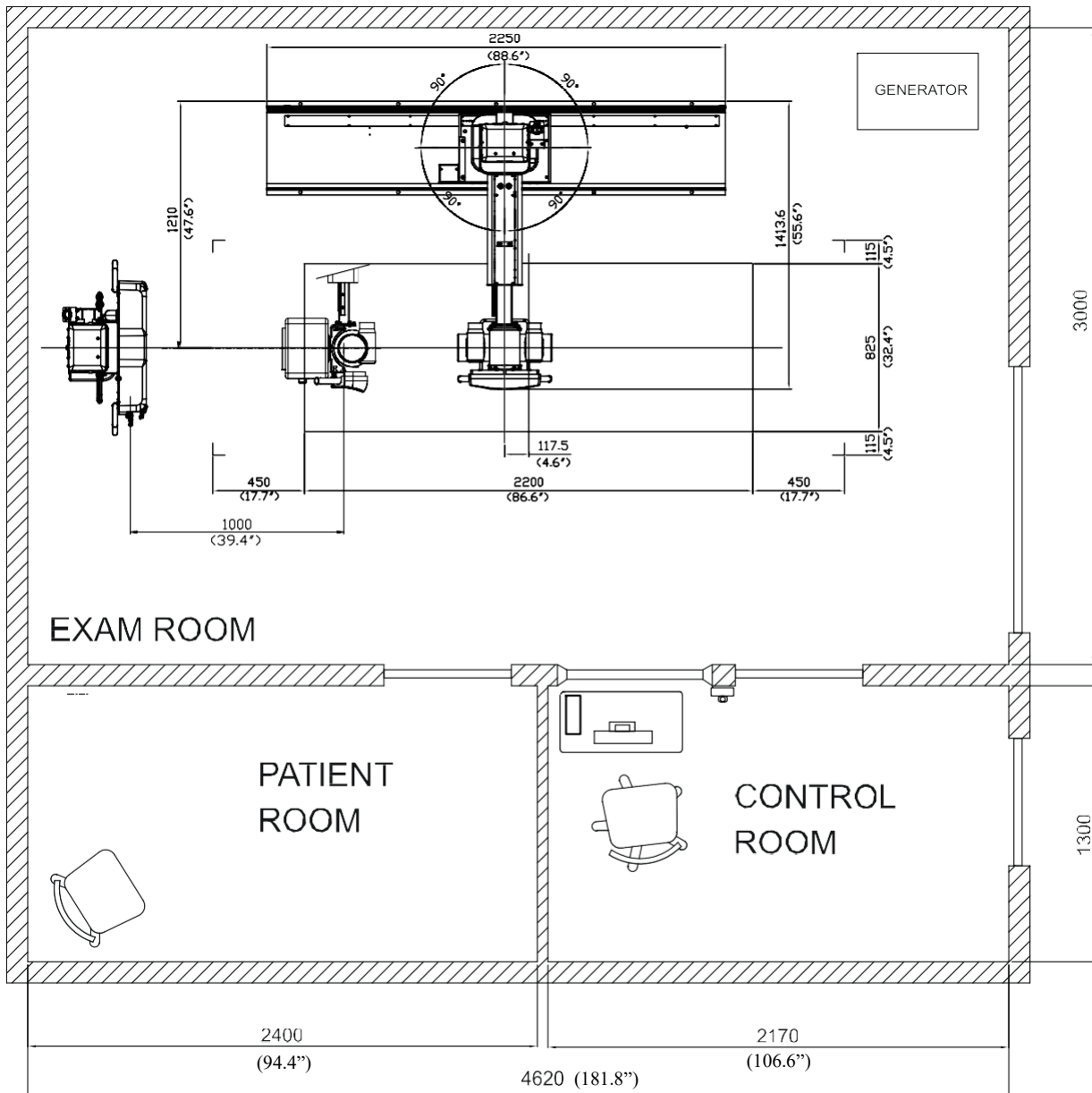
## Available Options Include:

- Media storage
- Intelligent grid
- DICOM print (x2 connections)
- LDAP access control (US only)
- Stitching license
- Motion/lung detection
- Applications training

## Typical Room Layout

### FULLY FUNCTIONAL LAYOUT:

**NOTE:** Layout allows for 3.5" deep surface wall duct between wall stand and generator. X-ray tube cable will drape from a ceiling box. This layout is ADA compliant.



## Compliance to Standards

The Definium XR/f digital radiographic imaging system is designed to meet applicable performance standards for diagnostic X-ray equipment enunciated by the U.S. Department of Health and Human Services pursuant to the Radiation Control for Health and Safety Act. In addition, the system complies with UL, IEC requirements.

## Warranty

The published company warranty in effect on date of shipment shall apply. Right reserved to make changes.



## About GE Healthcare

GE Healthcare provides transformational medical technologies and services to meet the demand for increased access, enhanced quality and more affordable healthcare around the world. GE (NYSE: GE) works on things that matter – great people and technologies taking on tough challenges. From medical imaging, software and IT, patient monitoring and diagnostics to drug discovery, biopharmaceutical manufacturing technologies and performance improvement solutions, GE Healthcare helps medical professionals deliver great healthcare to their patients.

GE Healthcare  
Chalfont St. Giles, Buckinghamshire, UK

### **GE Healthcare, Europe**

Headquarters Buc, France  
+33 800 90 87 19

### **GE Healthcare, Middle East and Africa**

Istanbul, Turkey  
+90 212 36 62 900

### **GE Healthcare, North America**

Milwaukee, USA  
+1 866 281 7545

### **GE Healthcare, Latin America**

Sao Paulo, Brazil  
+55 800 122 345

### **GE Healthcare, Asia Pacific**

Tokyo, Japan  
+81 42 585 5111

### **GE Healthcare, ASEAN**

Singapore +65 6291 8528

### **GE Healthcare, China**

Beijing, China +86 800 810 8188

### **GE Healthcare, India**

Bangalore, India  
+91 800 209 9003

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