





## Introduction

1. Revolution RT is a new multi-purpose wide bore CT scanner that meets virtually all your needs in radiation therapy planning

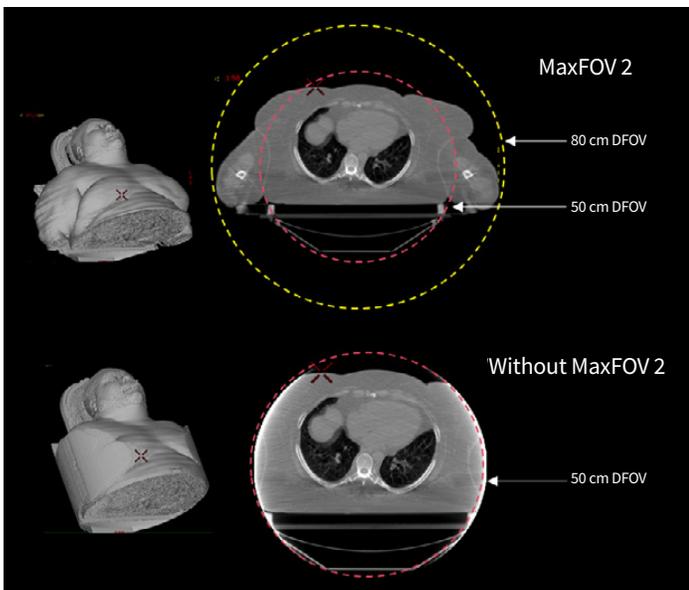
Revolution RT is a comprehensive radiation therapy solution providing an all-encompassing approach to radiation therapy planning. You get a streamlined workflow and sub-millimetric images that are effectively free of motion and metal artifacts. And it allows for simulation across an 82 cm wide bore with 80 cm field of view reconstruction. 2.3

# Radiation Oncology Applications Suite

## MaxFOV 2

4.3 MaxFOV 2<sup>1</sup> (Max Field-of-View 2) is a new deep learning based innovative reconstruction technology available on GE HealthCare Computed Tomography (CT) scanners that increases the maximum display field of view (DFOV) beyond the conventional GE HealthCare scanner limit. The increase in the maximum DFOV from 50 cm to up to 80 cm allows clinicians to visualize more anatomical information and improve skin line accuracy for optimal radiation therapy simulation and planning.

4.3 The MaxFOV 2 improves axial image quality in terms of skin line accuracy and CT number accuracy, provides improved contour in 3D image even under challenging clinical scenarios.



Density accuracy and Skin line accuracy (using GE HealthCare MaxFOV 2 test procedure):

Accuracy	Object extends to 50 - 70 cm DFOV	Object extends to 70 - 80 cm DFOV
CT Number	±40 HU	±60 HU
Skin Line	2 mm	3 mm

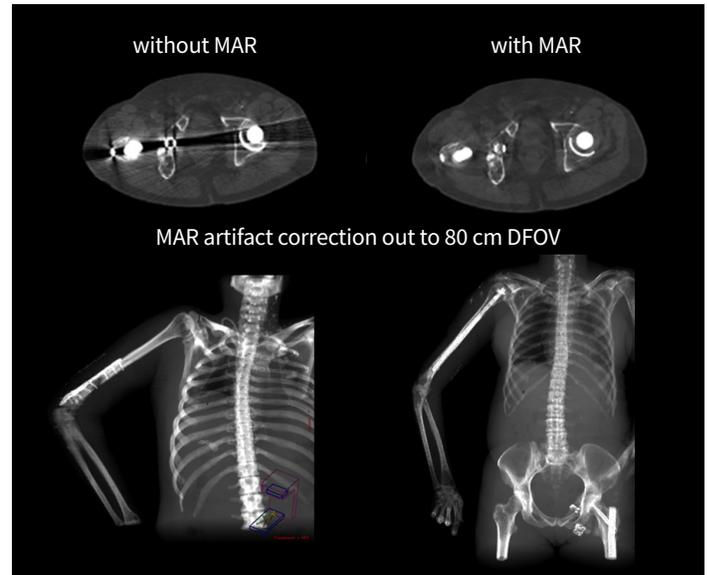
## Smart MAR<sup>‡</sup>

4.2 Smart MAR<sup>‡</sup> helps reducing photon starvation, beam hardening and streak artifacts caused by metal in the body, such as hip implants.

Smart MAR reconstructions are complete in less than 3 minutes typically<sup>2</sup>.

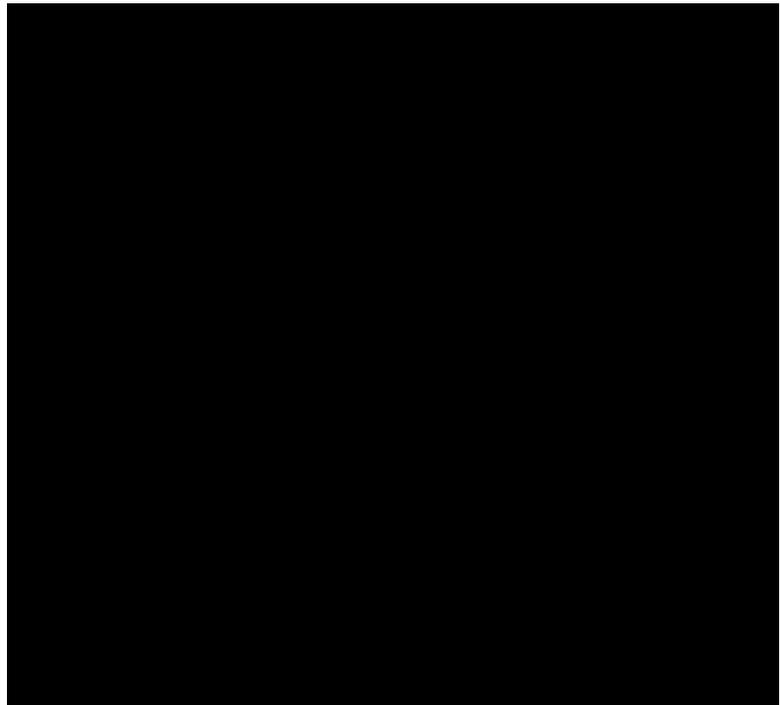
## Smart MAR<sup>‡</sup> (cont.)

Smart MAR can be reconstructed out to 80 cm DFOV.



## Advantage 4D™<sup>‡</sup>

5. Advantage 4D™<sup>‡</sup> captures the full range of motion of critical internal structures and lesions during respiration. This application, which is available both on the console and Advantage Workstation (AW), aids users in selecting the proper phase(s) of the respiratory cycle in order to plan for a more targeted standard or gated radiation treatment, reducing the need to apply general- or guessing margins. Advantage 4D can bin up to 6000 acquired images. Advantage™ 4D on console is 48% faster compared to the workflow with Advantage 4D on AW. It provides the ability to perform respiratory motion assessment on the console prior releasing the patient from the CT simulator.



# Radiation Oncology Applications Suite (cont.)

## AdvantageSim™ MD<sup>‡</sup> (cont.)

9.5

### Auto Segmentation

Auto Segmentation is a deep learning algorithm-based application designed to automate and standardize generation of contours of organs at risk during radiotherapy planning, customized per institution. Auto Segmentation algorithms provide accurate contours for 15 anatomical structures in less than 4 minutes. Results can be sent automatically to the reviewing destination where readers are able to further refine the contours if needed. The majority of organ contours generated by Auto Segmentation were deemed to require no modification or only minor optional modifications. Auto Segmentation can be utilized for radiotherapy planning.



## T2 Prospective Respiratory Gating<sup>‡</sup>

Prospective Respiratory Gating<sup>‡</sup> allows for a CT acquisition synchronized with an amplitude or phase defined trigger upon the respiratory curve in modes of either free breathing or deep inspiration breath hold. The derived information aids user in planning for targeted radiation.

## 7. AdvantageSim™ MD<sup>‡</sup>

AdvantageSim™ MD<sup>‡</sup> available on Advantage Workstation (AW) offers a robust package of Virtual Simulation and Planning tools. Powerful macros increase productivity for geometric planning and generate high-resolution DRRs and exquisite low-contrast resolution for visualizing tumors and critical structures. AdvantageSim MD takes respiratory motion management to the next level by seamlessly integrating 4D data into the planning process and providing multi-modality/multi-phase simulation for the use of state-of-the-art treatment methods, like IMRT and IGRT.



# Hardware specifications

Gantry

Table

2.2 Aperture 82 cm

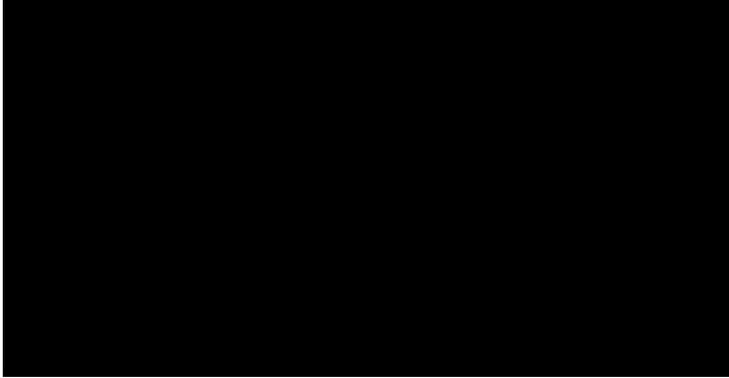
High Capacity Table: 295 kg (650 lb) 2.7  
maximum load allowed with normal  
operation and +/- 0.25 mm table 2.8  
longitudinal accuracy

# Hardware specifications *(cont.)*

## X-ray tube

3.1

Performix™ Pro VCT 100 X-ray tube [redacted]  
[redacted]  
[redacted]  
[redacted]



3.1 Heat Dissipation Anode (max) 2100 KHU/min  
Casing (cont) 648 KHU/min  
Tube Unit: 8 kW continuous

Dual Focal Spots

Small Focal Spot:



3.5

Large Focal Spot:



## Generator



3.4

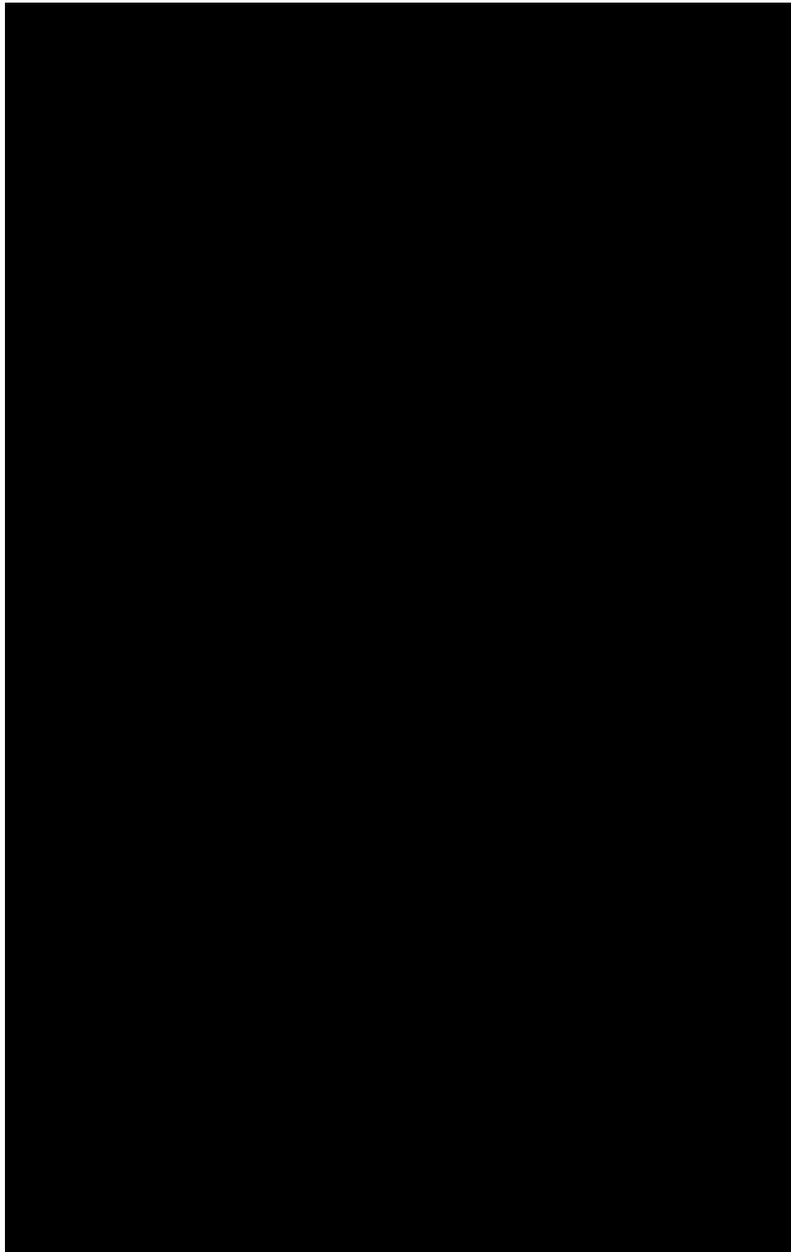
Output Power 80/100<sup>+</sup> kW

kVp 80, 100, 120, 140 kVp

3.2

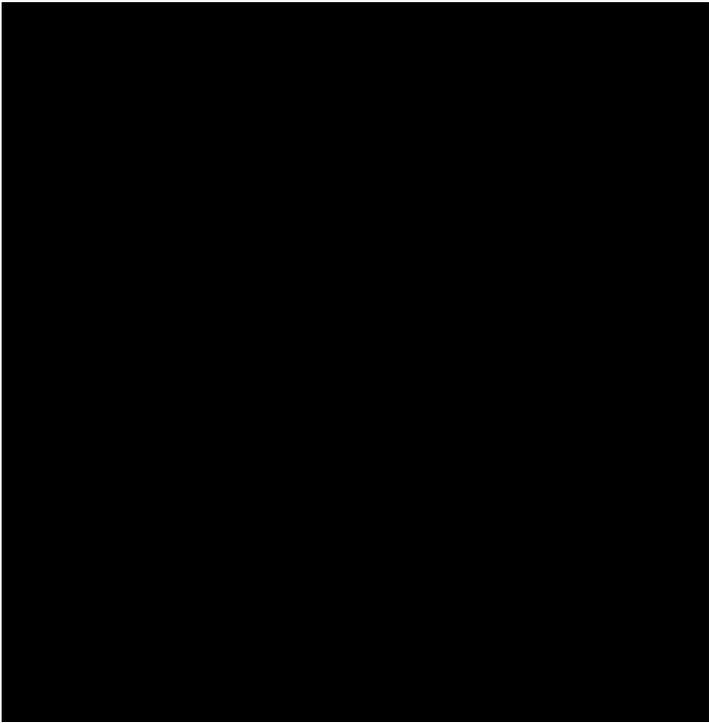
mA 10 to 720/800<sup>+</sup> mA, 5 mA increments

3.3

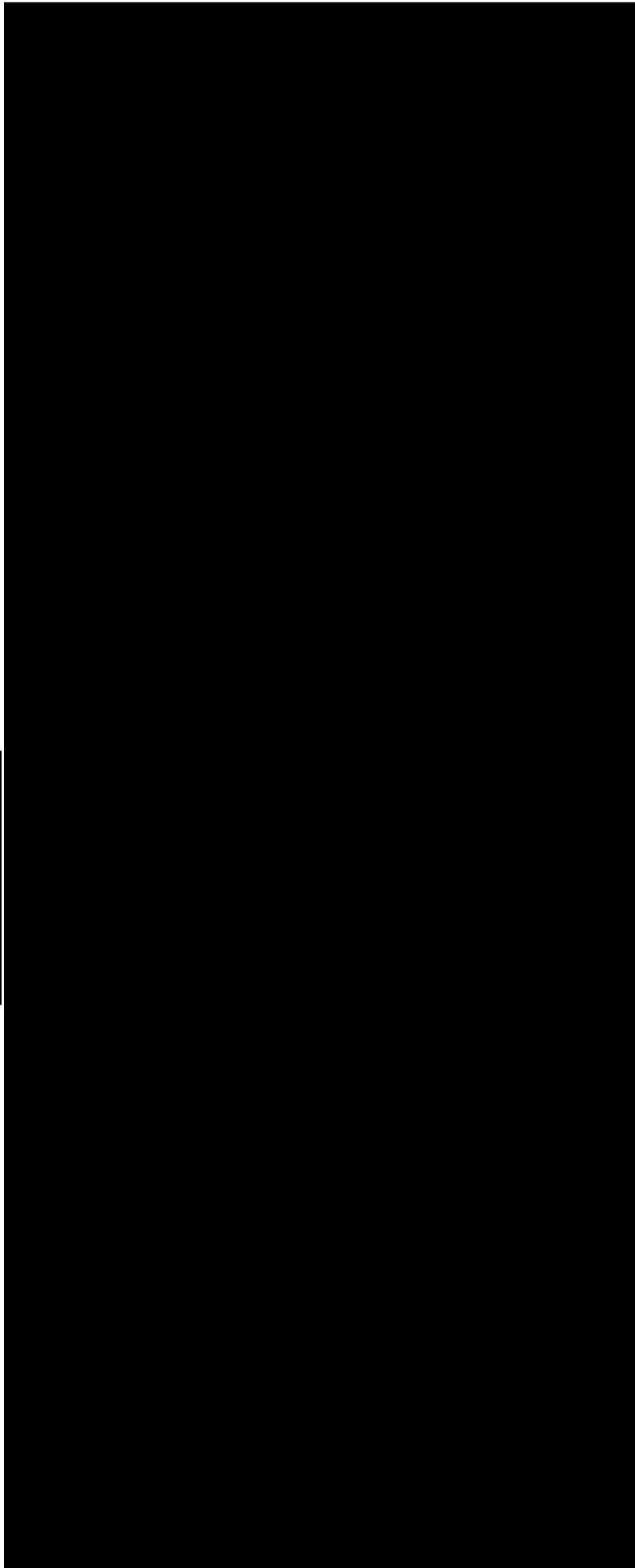




## Hardware specifications *(cont.)*



4.4.2 **DICOM 3.0 network send** (one IP address at a time) and receive, pull/query, and storage commitment push



## System features *(cont.)*

### Smart Dose technologies

**ASiR™** (Adaptive Statistical Iterative Reconstruction) A reconstruction technology that may enable reduction in pixel noise standard deviation. The ASiR reconstruction algorithm may allow for reduced mA in the acquisition of diagnostic images, thereby reducing the dose required.<sup>3</sup> ASiR works with all scan modes. 3.6.2

### 3D Dose modulation

Lower dose acquisition using SmartmA™, an automatic modulation technique and DLP display that tells the operator the dose before the scan starts. 3.6.1

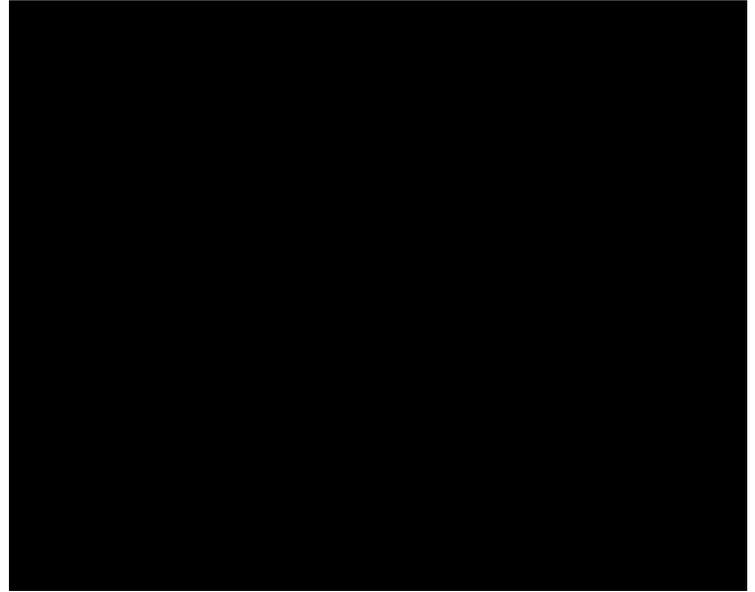
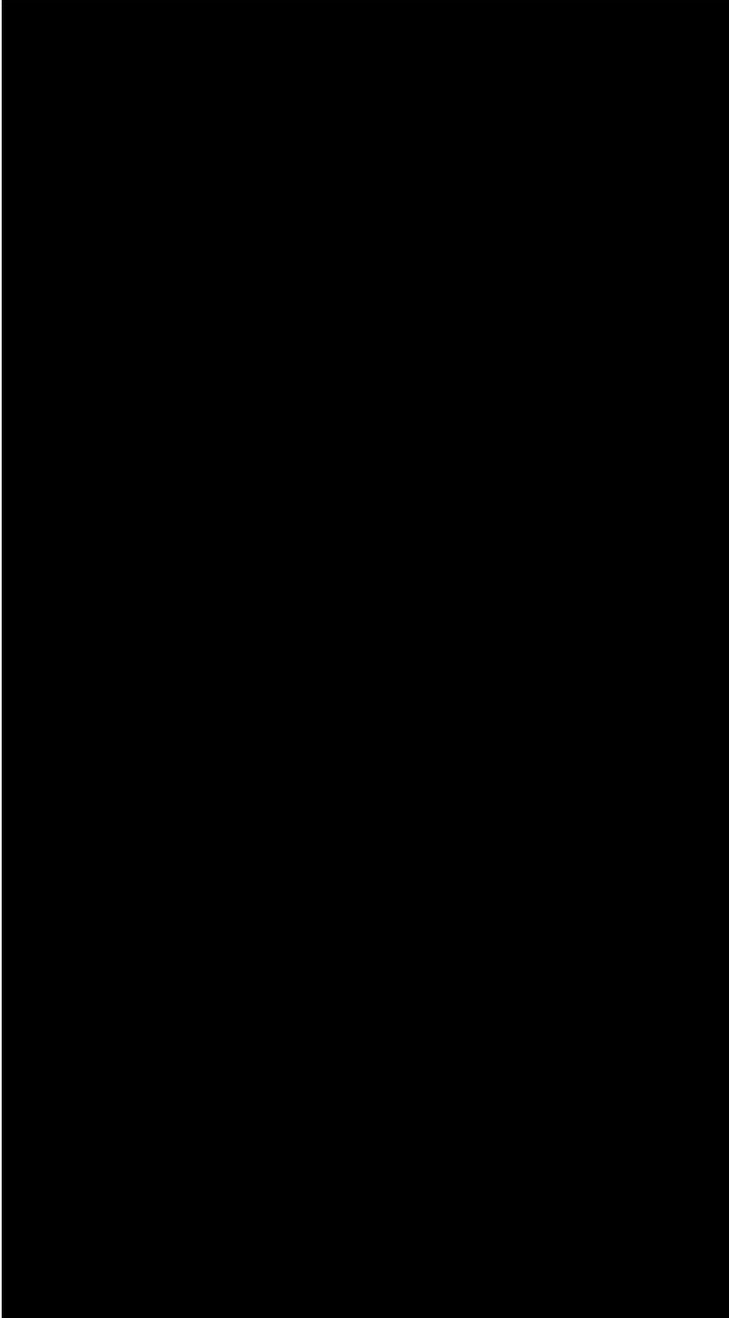
**DICOM Structured Dose Report** creates a machine-readable record to be saved with each CT exam. This allows a hospital's radiation tracking system/RIS/HIS to retrieve the Dose information for a given CT study. 4.4.5



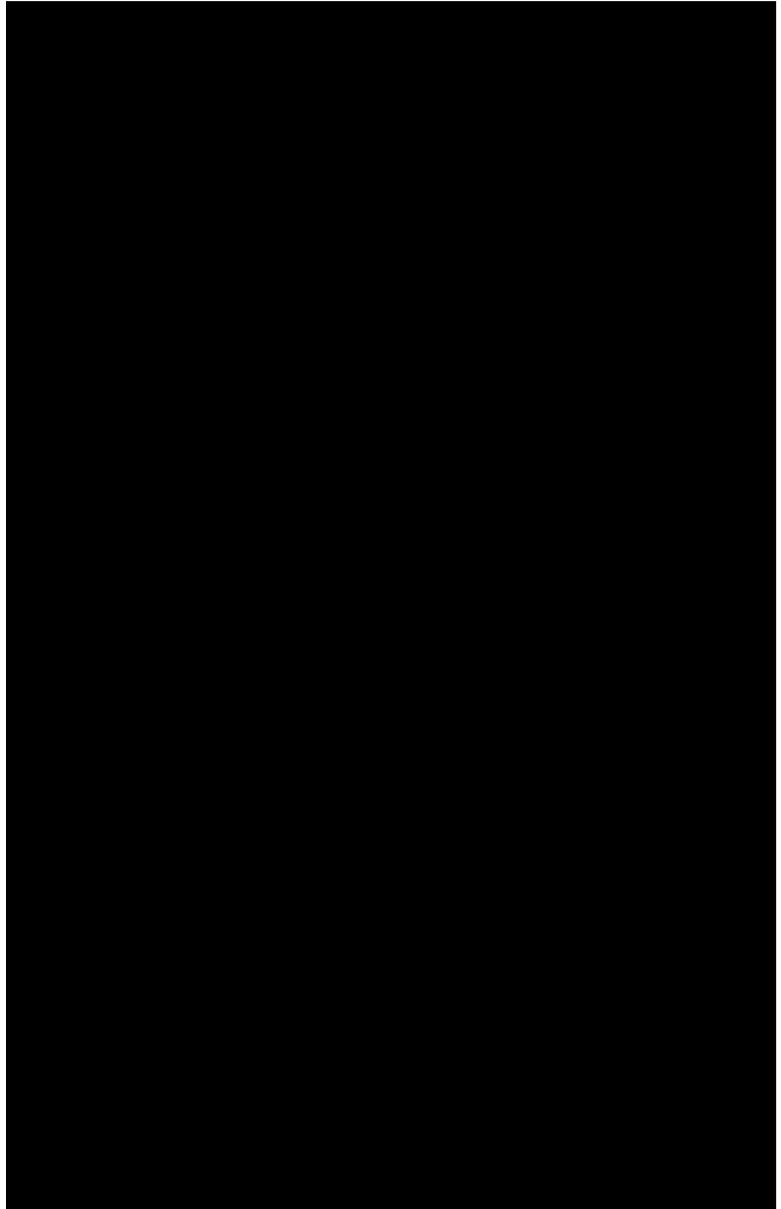
## Interactive CT technology



- 4.1 Supply a truly multi-tasking environment where even advanced image processing can take place quickly and simultaneously with other processes underway



SmartmA User Interface – automatically optimizes mA to maintain constant image noise when collimation/detector configuration, scan mode, scan rotation speed, table speed, or image thickness changes. 3.6.1





# Scan modes and image reconstruction

## Scan Modes

Revolution RT CT system can perform virtually any clinical application due to its wide variety of scan modes.

2.1.1	<b>Helical</b>	Continuous 360° scanning with table incrementation and no interscan delay Scans can be acquired in a wide variety of speeds.
2.1.2	<b>Axial</b>	Up to 16 contiguous axial slices acquired simultaneously with each 360° rotation, with the time between scans set by the user selected interscan delay (ISD) or intergroup delay (IGD)  Scans may be easily clustered in groups to allow multiple scans in a single breath hold.  Minimum scan-to-scan cycle time of only 1.5 second with table moves of 10 mm (any scan time)
2.1.3	<b>Scout</b>	Single radiographic plane for scan localization and graphical prescription of prospective reconstruction  Extended range matches helical scannable range  WW/WL preset for Scout

## Helical Scans

Slip ring technology has advanced axial scanning by enabling scans with zero interscan delay and simultaneous table movement

Helical Multi-slice Modes	<p>Simplified scan prescriptions and easy-to-use reference protocols make Revolution RT fast and efficient in patient set up.</p> <p>Multi-slice acquisitions and short intergroup delays significantly reduce potential mis-registration between scans by increasing the number of scans possible in a patient breath hold.</p> <p>Helical protocols are almost identical to “classical” axial scan protocols. At the beginning of a study, the operator selects the type of exam with the anatomical programmer, and indicates the desired scan range – either manually, or from a Scout.</p> <p>After completing the prescribed exam, the system remains ready to continue with additional helical scans or a set of axial scans.</p> <p>The operator may reconstruct helical scans prospectively with up to 90% overlap, and retrospectively, at any arbitrary table location in 0.1 mm increments.</p> <p>The complex nature of helical multi-slice scanning has been simplified by grouping all critical acquisition parameters within 8 basic scan modes, all optimized for image quality and speed. For 16-slice acquisition: 0.5625: 1; 0.9375: 1; 1.375: 1 and 1.75: 1. These clinically derived multi-slice scan modes offer a wide range of selections that carefully balance acquisition speed, image thickness, artifact level and retrospective image reconstruction flexibility.</p> <p>This simplified user interface guides the user in the choice of scan parameters. The user selects a pitch mode, a desired image slice thickness and table travel per rotation. The user interface also displays the resulting choice of retrospective image thicknesses available for each choice of acquisition parameters.</p> <p>The 16-slice helical acquisition modes provide table speeds from 5.625 mm/rotation up to 35 mm per rotation, enabling scan speeds that are up to 14 times faster than conventional 4-slice helical scanners.</p>
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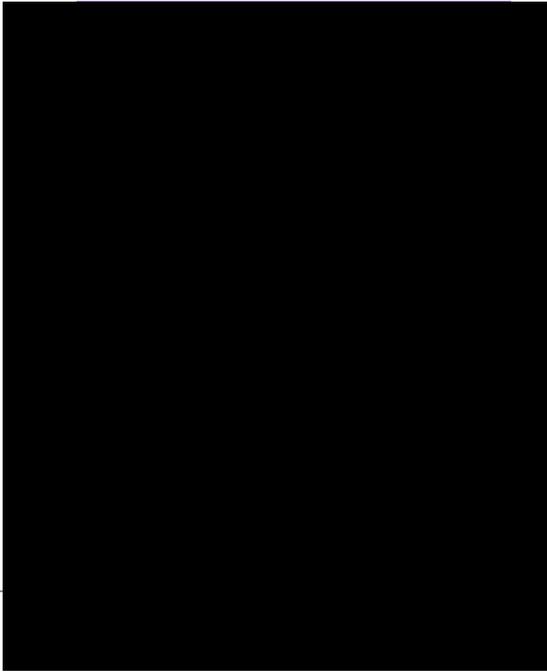
Full simultaneity allows complete image display, processing and analysis, as well as image archival and filming, concurrent with scanning and reconstruction – even when acquiring helical images in a multi-slice mode.

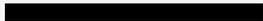
4.1



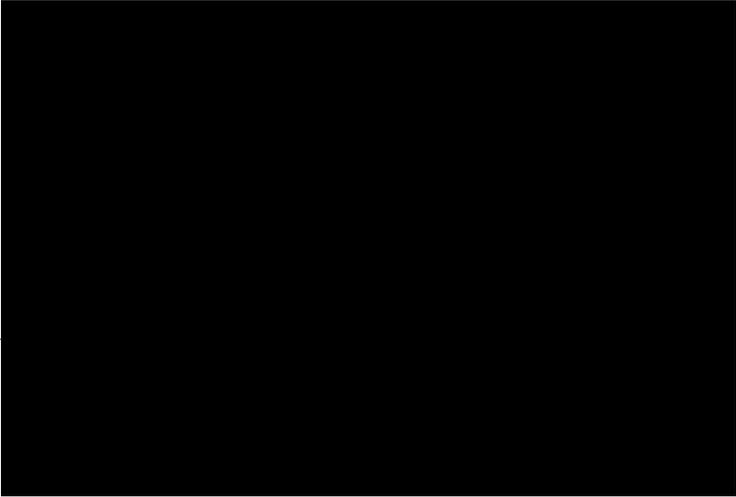


# Scan modes and image reconstruction (cont.)



Hi-Res algorithm (edge)	
X/Y - lp/cm	
	
10%	14.5
	

2.4





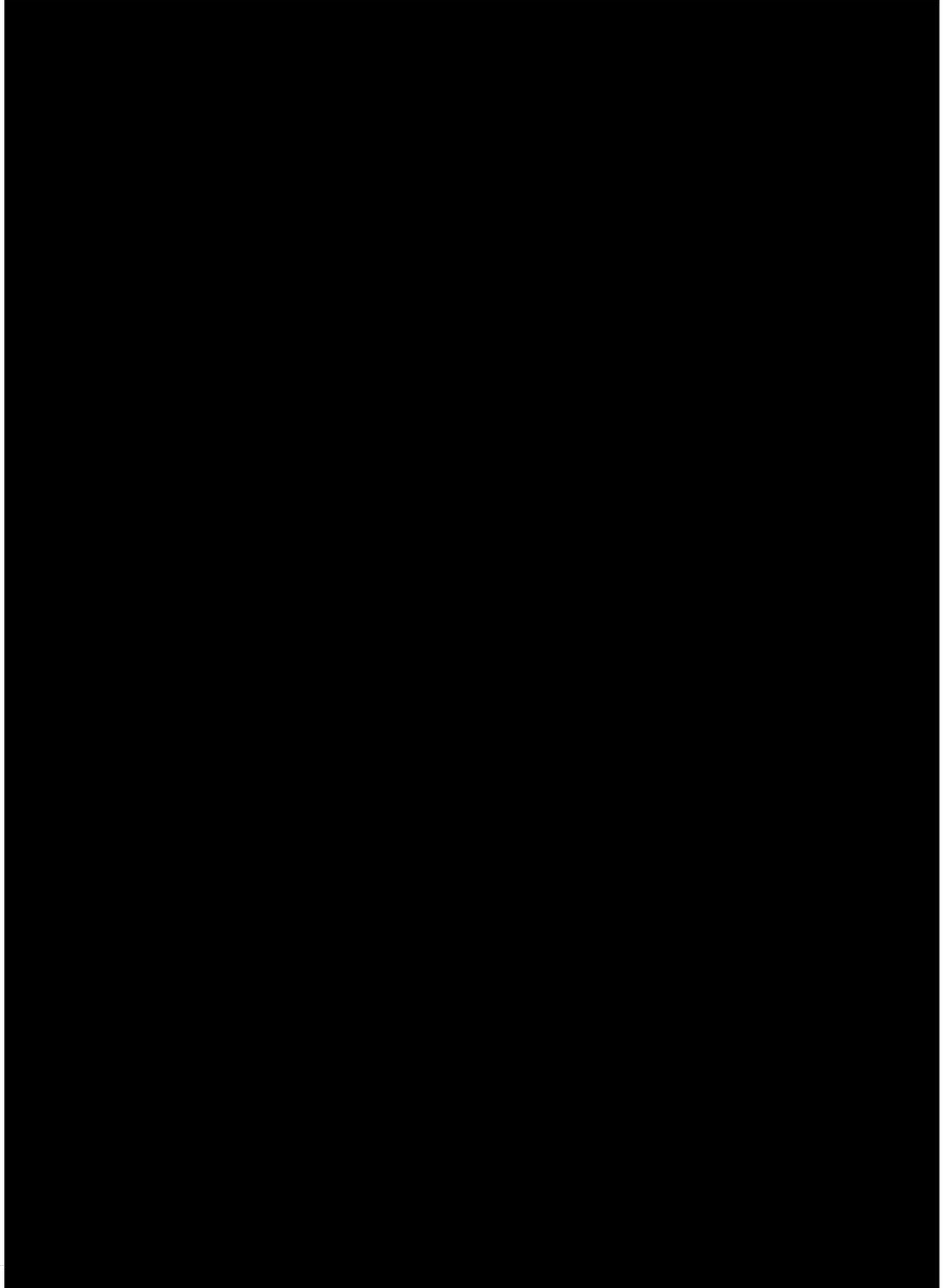




## Scan modes and image reconstruction (cont.)

Reconstruction

Reconstruction Matrix: 512 x 512 or **1024 x 1024**











## User interface & workflow overview *(cont.)*

### Dose computation & display

CTDI<sub>vol</sub> (CTDI volume), DLP (Dose Length Product), and Dose Efficiency computation and display during scan prescription provide patient dose information to the operator.

CTDI<sub>vol</sub> is a dose index defined by IEC 60601-2-44. This index is computed automatically by Revolution RT CT System and reported on the Exam Rx screen. CTDI<sub>vol</sub> is a single number consisting of 2/3 of the CTDI<sub>100</sub> peripheral dose plus 1/3 of the CTDI<sub>100</sub> central dose that is divided by the helical or axial pitch factor.

CTDI<sub>100</sub> is a dose index based upon CTDI dose measurements over a 100 mm volume, as defined in IEC 60601-2-44.

Dose Length Product (DLP) is given in mGy×cm and is computed and displayed for each group prior to the scan. Additionally, an accumulated DLP is displayed for the entire exam, as the exam prescription progresses. The final exam accumulated DLP provides a convenient measure for maintaining patient or procedure dose management statistics.

Dose Efficiency is automatically computed and displayed on the Exam Rx screen. The dose efficiency is a measure of how much of the Z-axis X-ray beam is used by the system, as defined in IEC 60601-2-44.







[REDACTED]

[REDACTED]

[REDACTED]

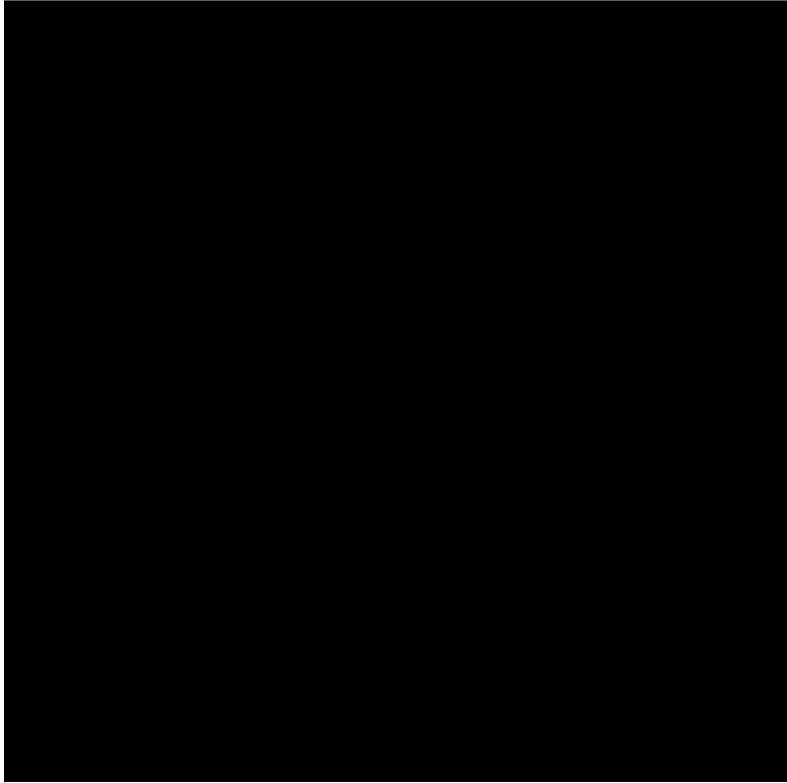
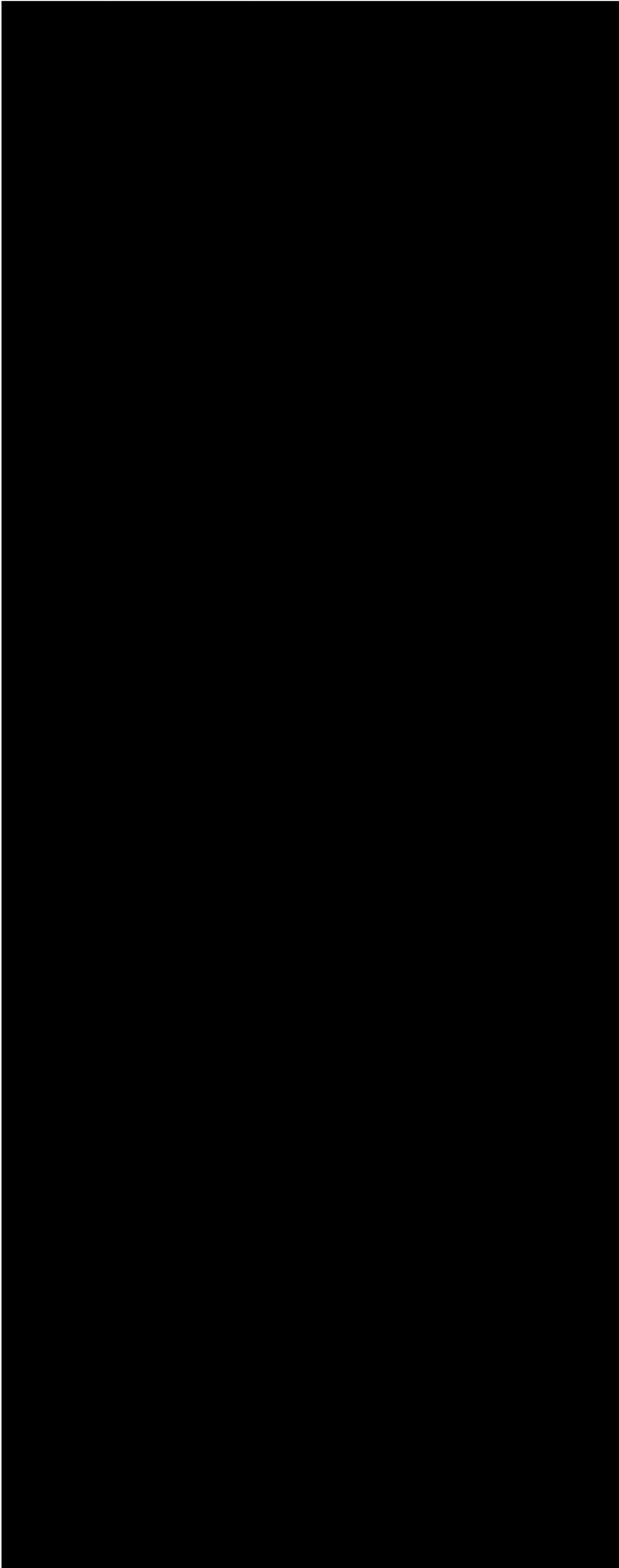
[REDACTED]

DICOM conformance standards:

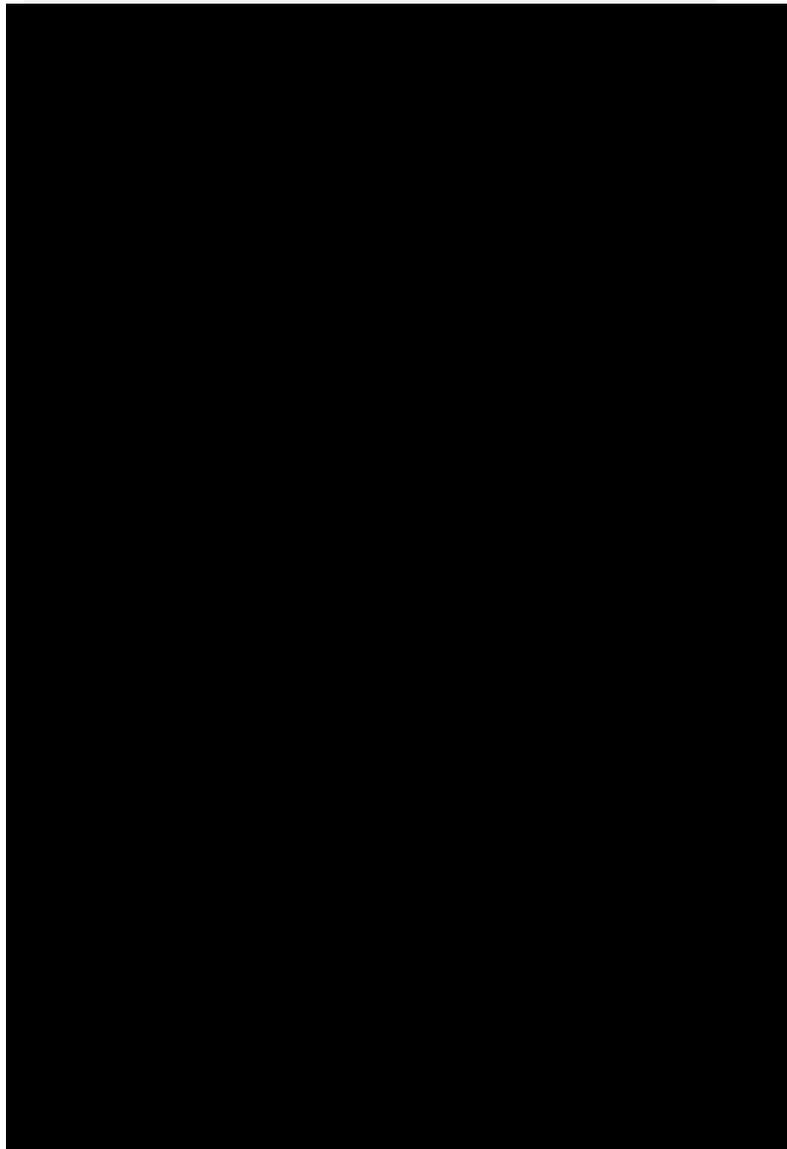
- DICOM 3.0 Storage Service Class
- Service Class User (SCU) for image send
- Service Class Provider (SCP) for image receive
- DICOM 3.0 Query/Retrieve Service Class
- DICOM 3.0 Storage Commitment Class Push
- DICOM 3.0 Modality Worklist<sup>†</sup> 4.4.3
- DICOM 3.0 Modality Performed 4.4.4
- Procedure Step<sup>†</sup>
- DICOM 3.0 Print 4.4.1

[REDACTED]

## Compatible options



UPS 9.6



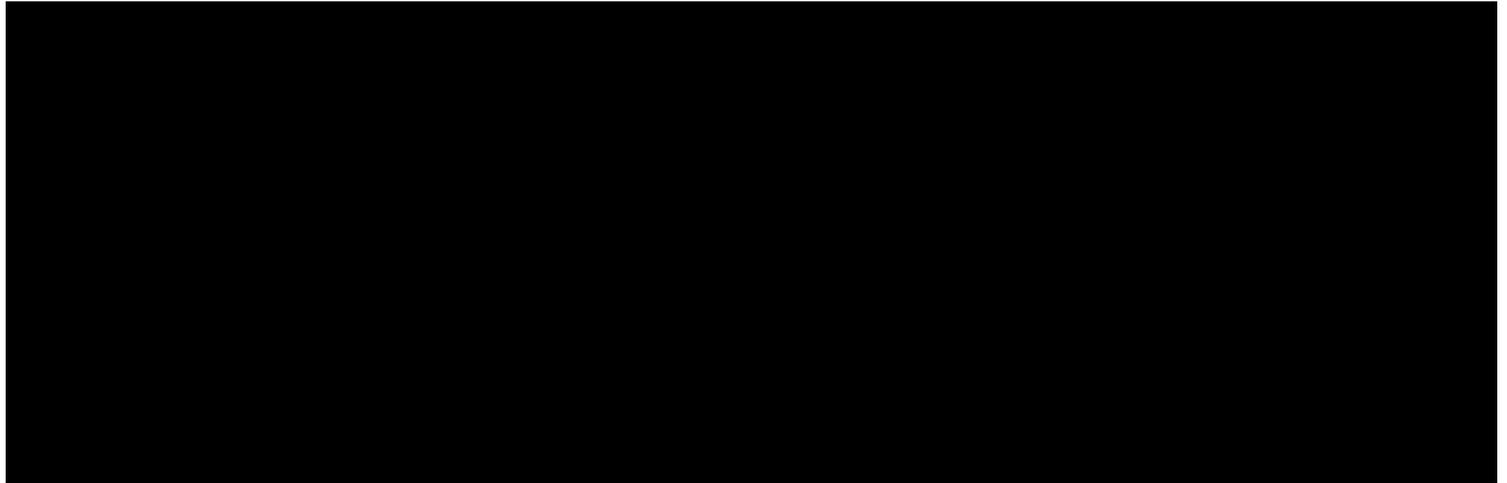








**Advantage Workstation (AW)** 7.











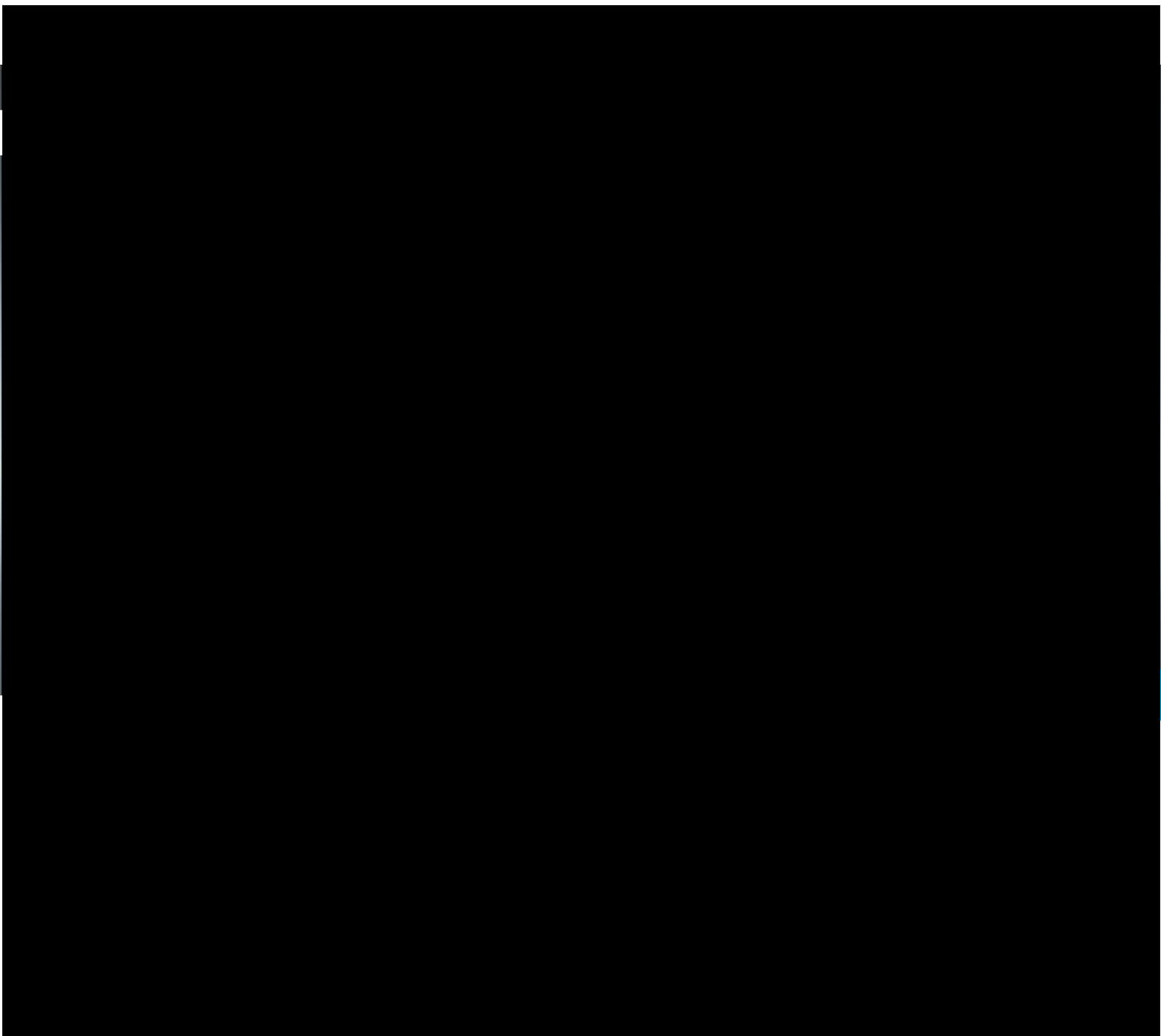












## Features

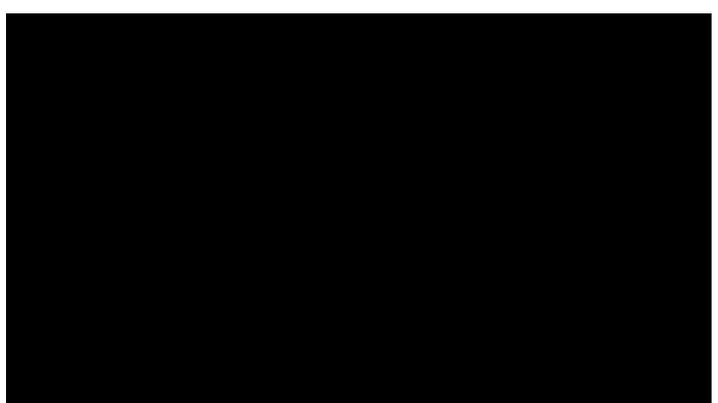
8.2

- Precise with a positioning accuracy of  $\pm 0.1$  mm [redacted]  
[redacted]  
[redacted]  
[redacted]  
[redacted]  
[redacted]  
[redacted]  
[redacted]
- Comfortable laser adjustment via remote control:  
All lasers can be easily selected and adjusted in focus,  
rotation, tilt or shift. 8.3

## Configurations

8.1

- DORADOnova 3 laser system, consisting of one ceiling and two wall/post rails with fixed and movable lasers, projecting a movable sagittal and coronal and fixed transversal line to mark the patient in all three body planes.
- [redacted]



Simply  
Precise





## Accessories

# DORADOnova

### Included

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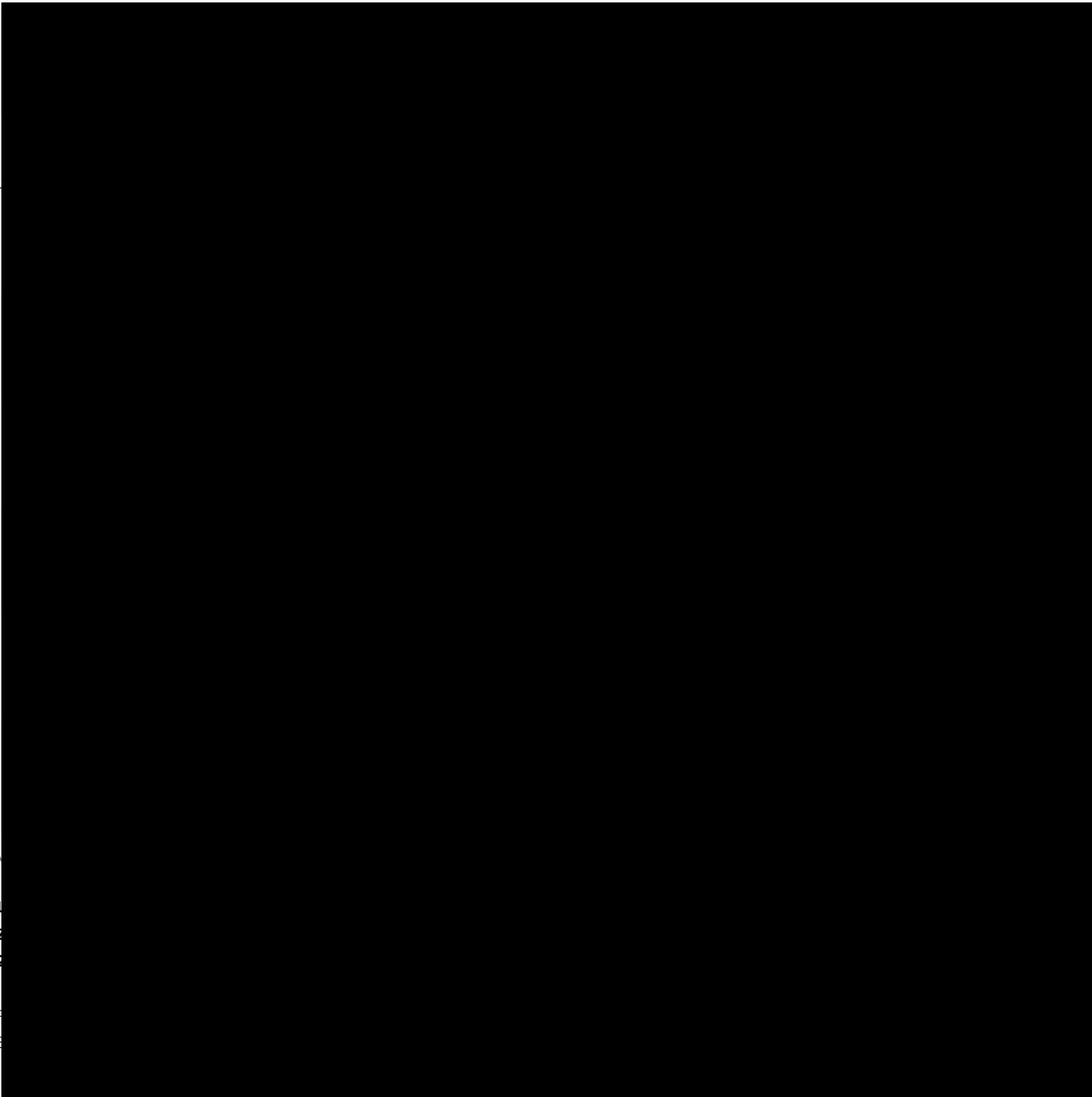


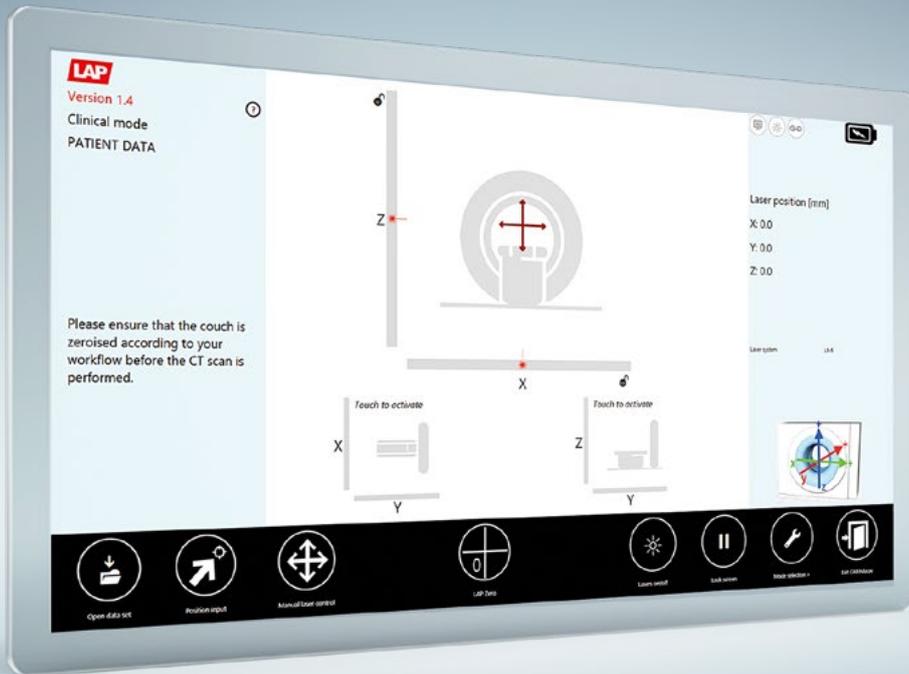
**WILKE Phantom**



For regular laser QA

8.5



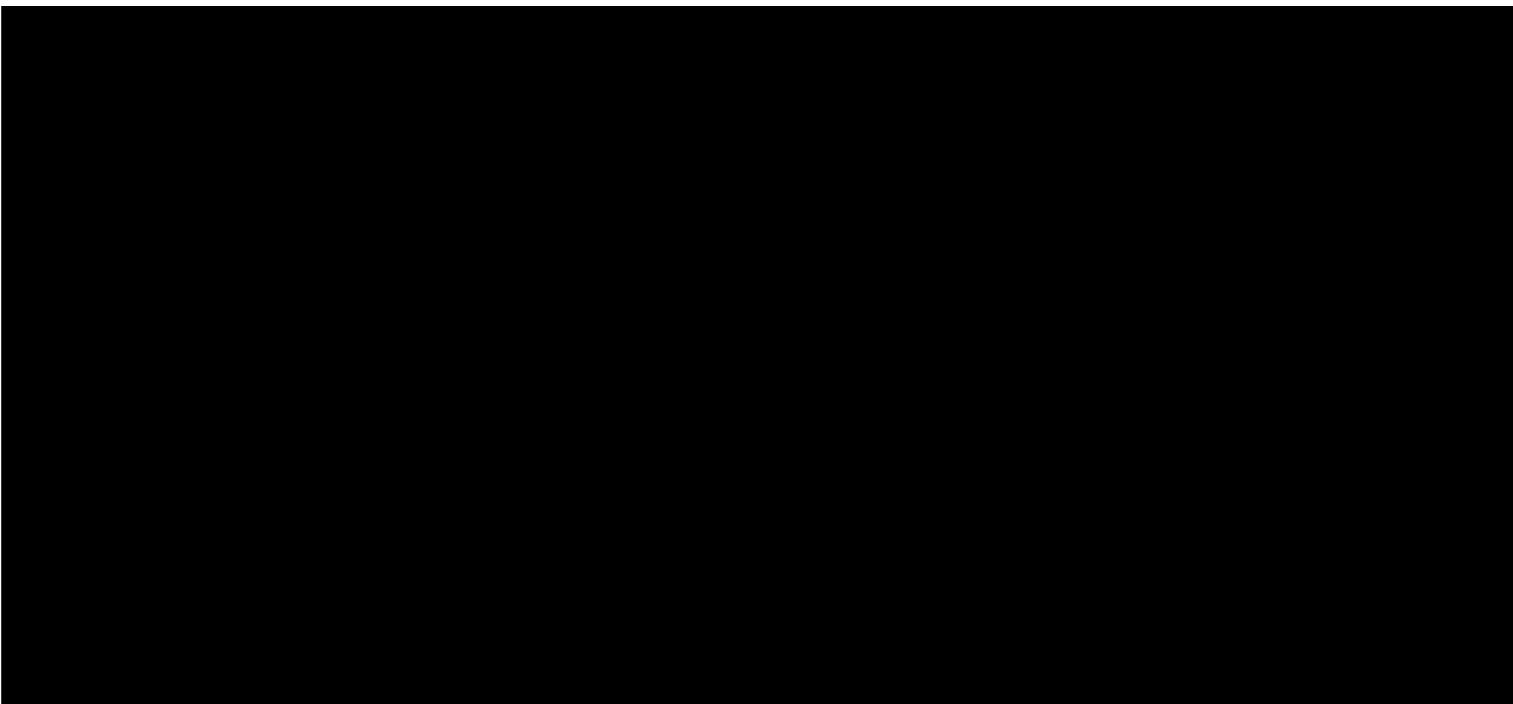


## Data Sheet

8.4

# CARINAnav

Smart laser control for movable laser systems from LAP







2.6.1, 2.6.2, 2.6.3 ● **6000 Series Universal Couchtop™ 1 Piece**

- Advanced 1 piece radiation couchtop with 7 cm indexing
- Designed for SBRT treatments with Universal Couchtop profile to enable Body Pro-Lok ONE™ direct attachment
- Varian RPM, RGSC, and VCD mount compatible
- Matching dosimetric properties if installed in treatment













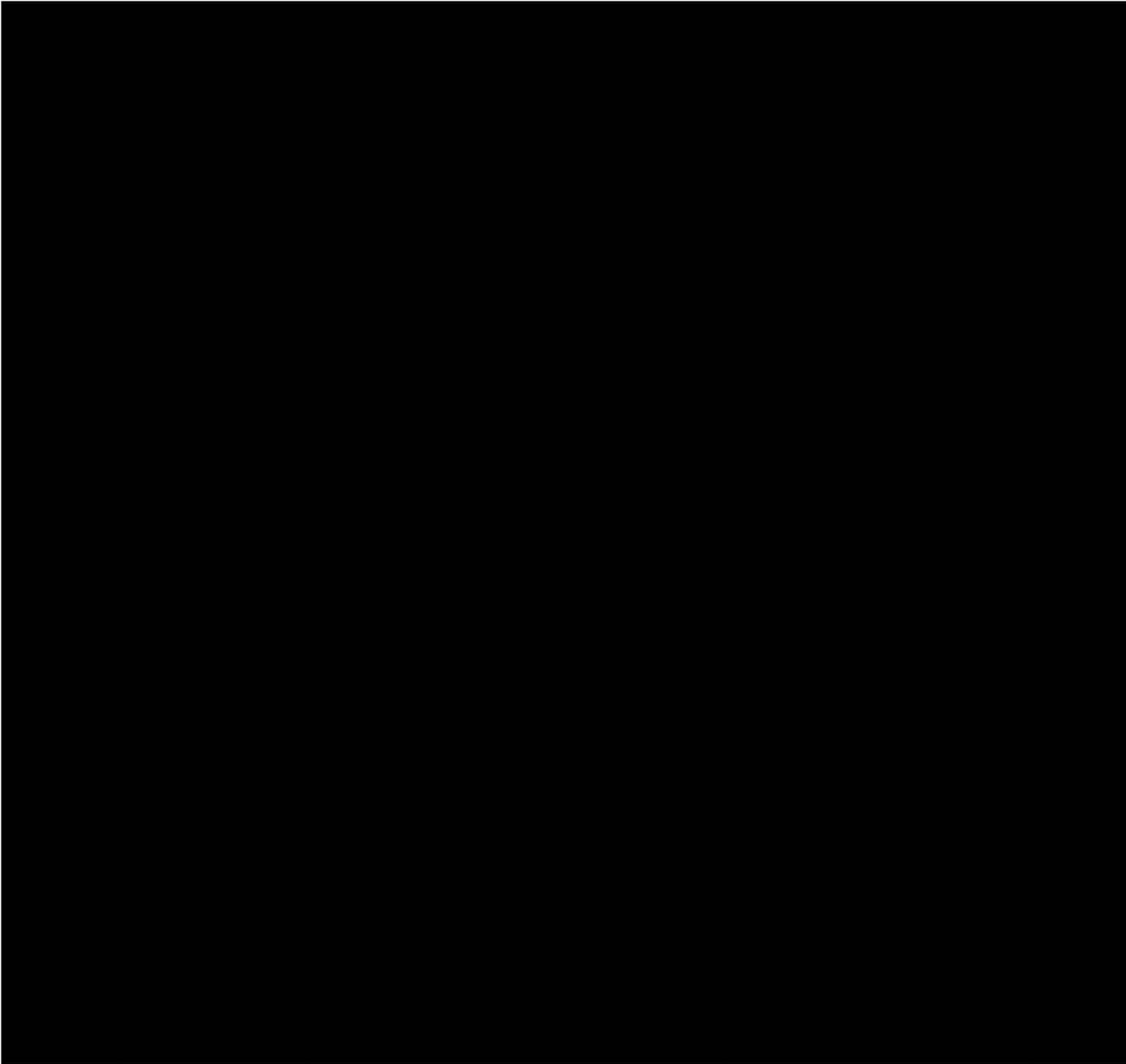










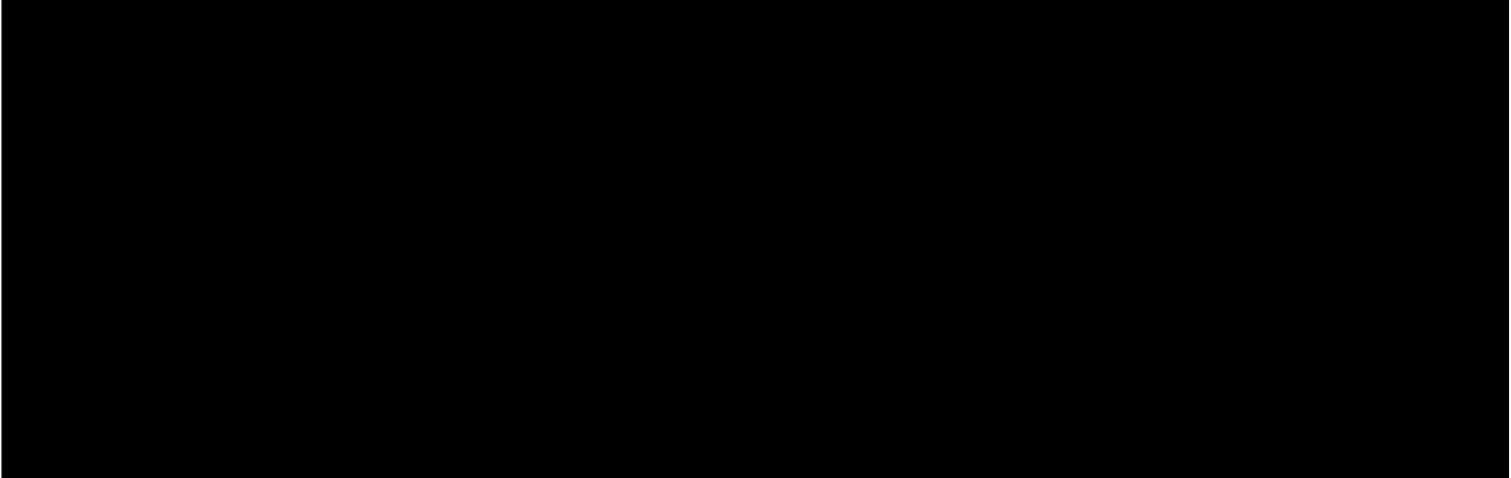


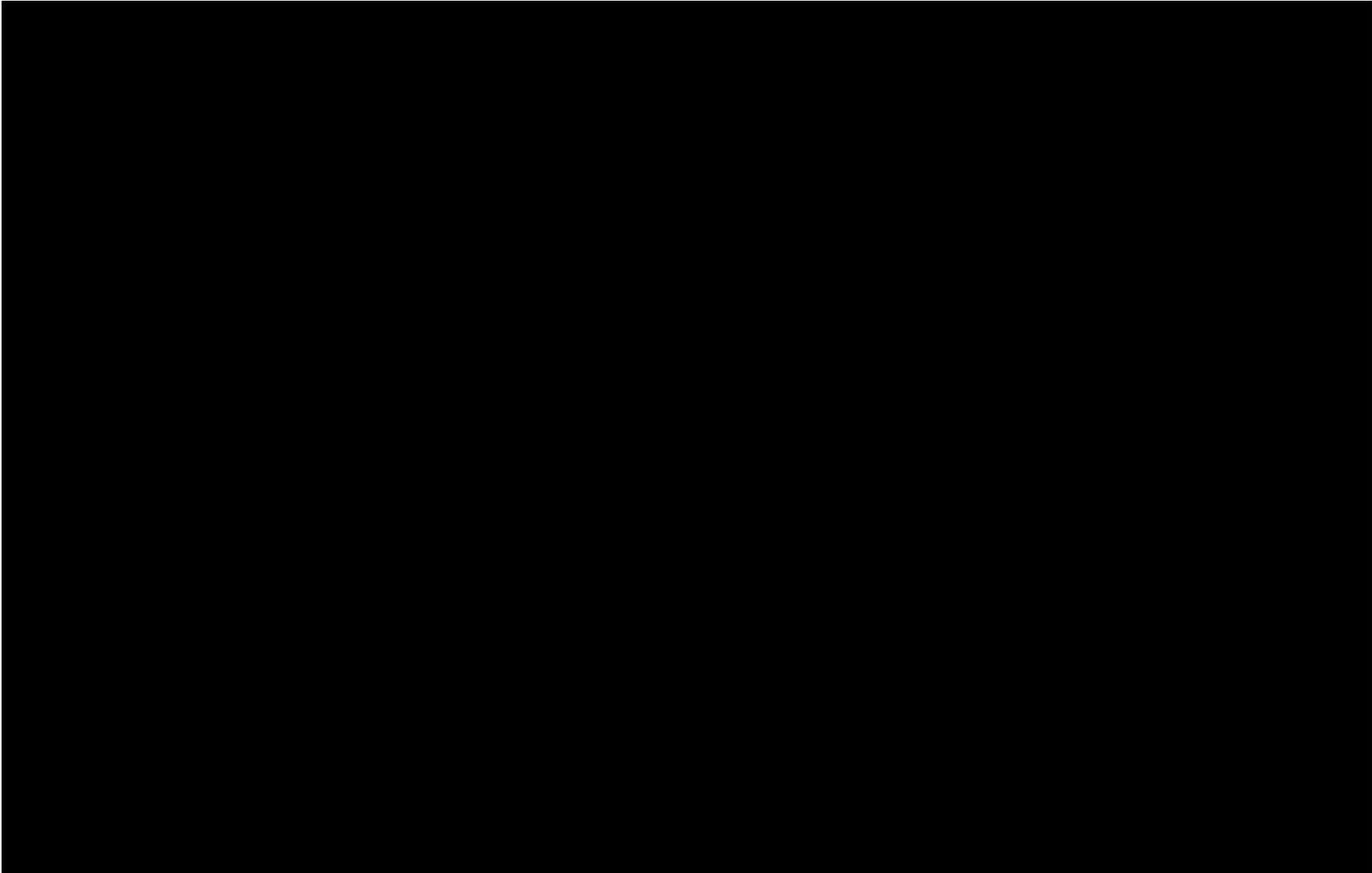
9.1

MDP

Main distribution panel

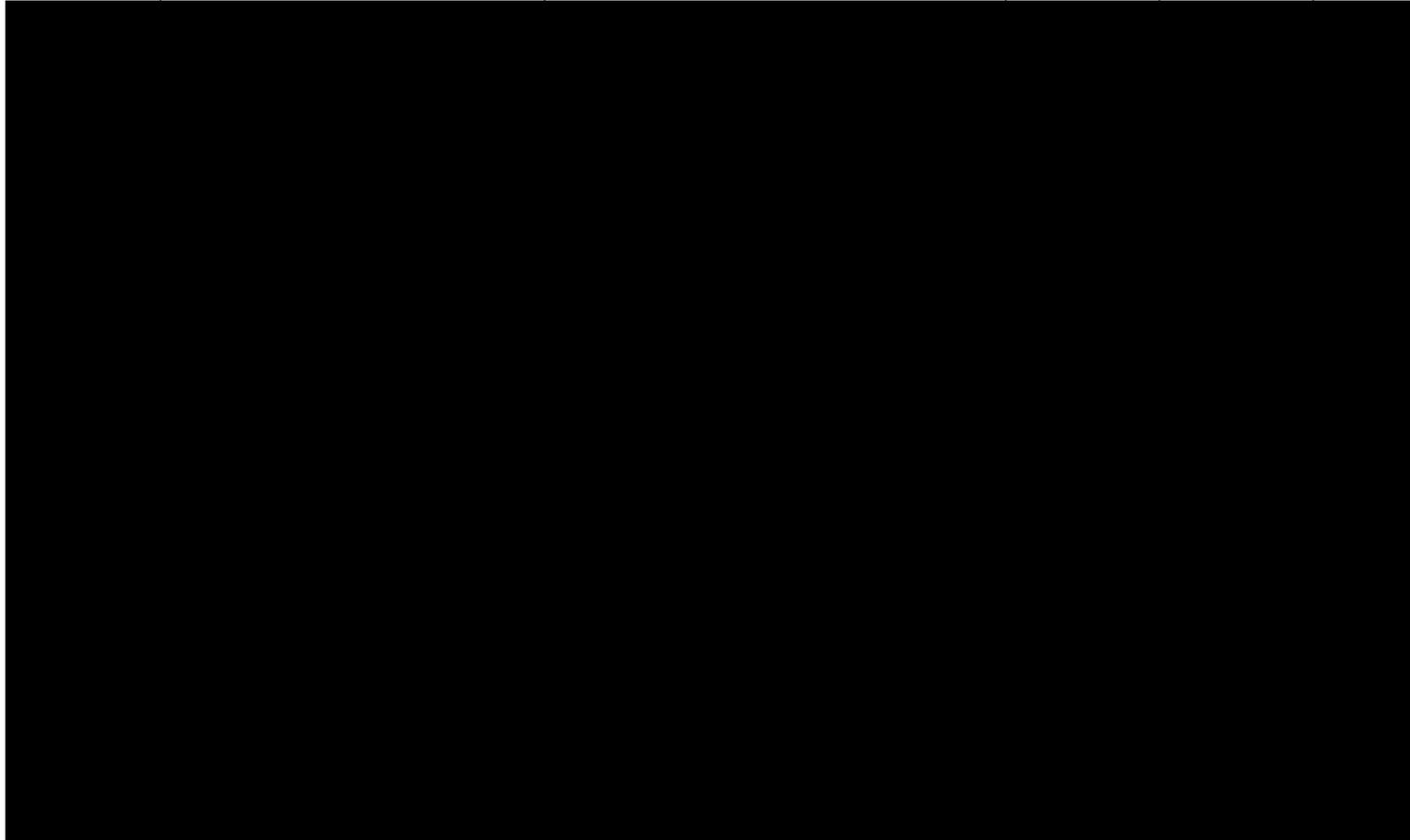
**Contractor supplied**





9.3

Item	Size	Weight (total)	
QA Phantom (water filled)	20 cm x 15 cm	5.5 kg	12 lb





9.4

# Electron Density Phantom

9.4.1, 9.4.2, 9.4.3, 9.4.4, 9.4.5, 9.4.6, 9.4.7, 9.4.8

Qty	Part No.	Description	Physical Density, g/cc	Electron Density, x 10 <sup>23</sup> electrons/cc	RED (Relative to H <sub>2</sub> O)
1	062MA-01	Electron Density Head Insert	1.029	3.333	0.998
1	062MA-02	Electron Density Body without Head Insert	1.029	3.333	0.998
2	062A-04	Lung (Inhale) Equivalent Electron Density Plug	0.205	0.668	0.200
2	062A-05	Lung (Exhale) Equivalent Electron Density Plug	0.507	1.658	0.496
2	062A-06	Breast (50% Gland / 50% Adipose) Equivalent Electron Density Plug	0.99	3.261	0.976
2	062A-08	Solid Trabecular Bone (200 mg/cc HA) Equivalent Electron Density Plug	1.16	3.730	1.117
2	062A-09	Liver Equivalent Electron Density Plug	1.07	3.516	1.052
2	062A-10	Muscle Equivalent Electron Density Plug	1.06	3.483	1.043
2	062A-11	Adipose Equivalent Electron Density Plug	0.96	3.171	0.949
2	062A-15	Solid Dense Bone (800 mg/cc HA) Equivalent Electron Density Plug	1.53	4.862	1.456
1	062A-27	Solid Dense Bone (1250 mg/cc HA) Equivalent Electron Density Plug	1.82	5.663	1.695
1	062MA-39	Water-fillable Electron Density Plug, Ø 1" removable vial inside (Real water data provided)	1.00	3.340	1.000
1	062M-30	Set of 2 Feet for Model 062M			
1	062M-40	Soft Carry Case for Model 062M			
1		User Guide			











































































































































































































































**UAB TRADINTEK**

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Įmonės kodas - 124942182, PVM mokėtojo kodas - LT249421811

**Lietuvos sveikatos mokslų universiteto ligoninei Kauno klinikoms**

**DĖL ATITIKIMO VIEŠOJO PIRKIMO REIKALAVIMAMS  
(PIRKIMO ID 4058718)**

2025-09-22 Nr. 20250922-WR  
Vilnius

Šiuo patvirtiname kad, siūlomai įrangai suteikiamos garantijos trukmė yra 48 mėnesiai.

