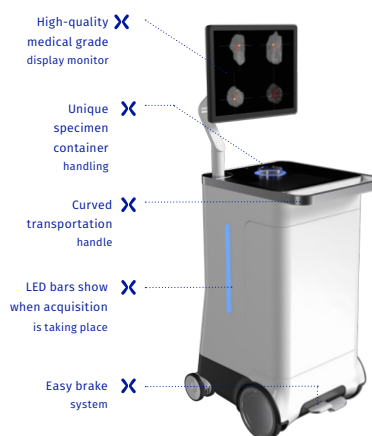# xeos AURA

The **AURA 10** PET-CT is the first-ever PET-CT specimen imager for the operating room (OR), offering surgeons and imaging specialists the sensitivity of PET imaging at submillimeter spatial resolution. Combined in a compact and ergonomic mobile scanner, a specimen does no longer need to be transported to the radiology or pathology department during surgery. High-quality specimen images can now be obtained in the OR within 10 minutes after excision.

High-quality medical grade display monitor

Unique specimen container handling

Curved transportation handle

LED bars show when acquisition is taking place

Easy brake system

CT		
X-ray Detector		
Detector Technology		14-bit Indirect CMOS, 99 µm
X-ray Absorption Material		Columnar CsI Scintillator
Active Image Area Size		14.7 x 11.4 cm
Array size	*Detector pixels*	1488 x 1148
Pixel Size	*Detector resolution*	99 x 99 µm
Limiting Spatial Resolution		5 lp/mm
Output Image		14-bit image data
Geometric Magnification		1.33x
Axial Field of View		10 cm x 7 cm
**X-ray Source	Tube**		
Energy Range	*Voltage range*	0-50 kVp
Anode Type	*Target Material*	Tungsten
Tube Current	*Current*	Up to 1.0mA
Exposure	*Exposure time*	Up to 60 seconds
Resolution		50 µm typical
Filtration		127µm beryllium	1 mm aluminium
3D Reconstruction		
Reconstructed resolution		100 µm
PET		
Crystal material		LYSO
Field of View (Transverse x Axial)		10 cm x 6 cm
Spatial resolution (reconstructed)		< 1.0 mm
Sensitivity		6%
Reconstructed Algorithms		3D OSEM
IMAGE DISPLAY		
Imaging type		Fused 3D CT and PET imaging
Image reconstruction time		CT : Within seconds of acquisition completion
		3D CT reconstruction : < 3 minutes
		PET : 10 minutes
Image Processing		Manual control window level parameters
		Preset configurations for PET en CT
		Orientation indication
		Automatic metal artifact correction

		Clip verification
		Scroll through slices
Magnification		Zoom in, Zoom out
Multi-View		Single and Quad view lay-out
Calibration		User-initiated auto-calibration of CT
Other		Distance Measurement

ELECTRICAL REQUIREMENTS		
Power		AC input : 120-250 VAC, 50/60 Hz
Power Consumption		1.2kW peak, 600W typical

DIMENSIONS		
Construction		Mobile imaging system with display monitor
Dimensions (H x W x D)	imager	40.6" H x 20.7" W x 26.6" D	103 x 52.5 x 67.5 cm
	incl. display	63.7" H x 20.7" W x 26.6" D	161.0 x 52.5 x 67.5 cm
Weight Net	imager	146kg	322 lbs
	incl. display	150kg	330 Lbs
Weight Shipping	imager	245 kg	540 lbs
	incl. display	250 kg	550 Lbs

DISPLAY MONITOR		
Size		21.3"
Resolution		2MP (1600x1200)
Brightness		High Brightness
DICOM calibrated		Yes
Dimensions		37.4 x 47.7 x 70.4 cm (W x H x D) cm
Protective Front glass		No
Weight		MDRC 2321 HNIB : 3.6 kg

ACQUISITION WORKSTATION		
CPU		3.4 GHz
Memory		32 GB
GPU		NVIDIA RTX A4000
Hard Disk		512 GB Operating, 2 TB Image Storage
Display Monitor		See above
Operating System		Ubuntu 18.04 LTS
Network Connection		Gigabit Ethernet
Wireless		2.4GHz, 5GHz Dual Band
User Interface		12.1 " Touch display
		Trackpad

CABINET		
System		Mobile imaging system with display monitor
Specimen holder		Top loading
		Single Use Container with integrated specimen orientation marks
		13MP Integrated Optical Camera
Safety Features		Fully Shielded
		X-Ray activity indicators
		Dual interlock on User-accessible doors
		Login Authentication
		Login Timeout
Indicators		LED strips left/right on cabinet LED ring around specimen holder
Ergonomics		Adjustable swivel and rotate for monitor
		Curved alu handles for easy transportation

		Easy brake system
HOSPITAL IT INTEGRATION		
DICOM Services		Upload to PACS
		Patient selection via Modality Worklist (MWL)
		Query, Retrieve, Store
ACCESORIES		
Specimen Container		Aura Specimen Container - Non-Sterile
	Diameter	10.4cm (4.09")
	Height	Interior : 4.84 cm (1.91")
		Exterior : 6.0 cm (2.36")
CERTIFICATONS		
Safety		IEC 61010-1, 601010-2-091/101
		UL 61010-1, 6010-2-091/101
		CSA C22.2 No 61010-1, No 61010-2-091/101
EMC		IEC 61326-2-6 3rd Ed:2020
Environmental		REACH, EU RoSH, WEE
Approvals | Marking		EU Directive 98/79/EC (IVDD)
		CE
		ISO 13485 (QMS)
		ISO 14971 (Risk Management)
		IEC 62366 (Useability)
ENVIRONMENTAL CONDITIONS		
Operating Temperature	Temperature	18-25°C (64-77°F)
	Relative Humidity	<75% non-condensing
Storage	Temperature	0-40°C (32-104°F)
	Relative Humidity	<75% non-condensing
Pressure		Altitude up to 2,000 meters

xeos

*Precisely where
it matters*

We are focused on improving outcomes in surgical oncology through innovations in intraoperative imaging. Our goal is to eliminate the risk of resurgery through smarter specimen imaging.

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