

COMPUTED TOMOGRAPHY SCANNER, FIELD TOC

**PHILIPS MEDICAL SYSTEMS OF NORTH AMERICA
MODEL MX 8000**

Manufacturer's Phone: (800) 722-9377 , FAX: (978) 659-4995

Website: <http://www.medical.philips.com>

AAC "J" ITEM NSN 6525-01-511-7357

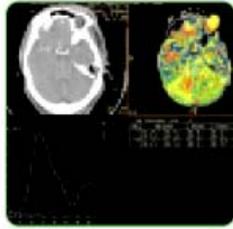
UA's: M432

**USAMMA POC: Equipment Acquisition Division, (301) 619-4060, DSN 343-4060
UNIT PRICE: \$749,275.00**

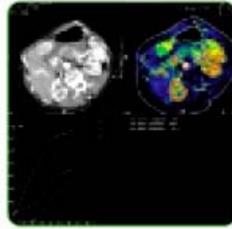
Description: MX8000 Dual slice CT scanner delivers proven performance for every patient. The MX8000 Dual offers the power, speed and clinical versatility derived from a wide range of multislice scanning techniques. To improve patient care, MX8000 Dual includes some of the newest clinical applications, such as prospective gated cardiac calcium scoring, perfusion examinations, whole-body CT and vascular studies. The MX8000 Dual offers a premium workstation and multislice scanner in one package.

Main Features:

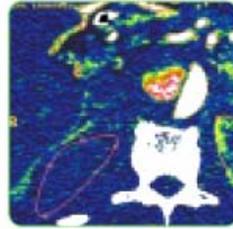
1. **Functional CT:** The MX 8000, CT has for the first time shifted from anatomical medical imaging to a combination of structural and functional imaging. Functional imaging that shows how the body works includes the measurement of tissue perfusion, tissue diffusion, and capillary permeability.
2. **Liver Perfusion:** Various parametric functional images. Parametric functional image color map display. Statistical measurements (such as mean, standard deviation, size, ect.) recorded for any user-selected region.
3. **Kidney and Aortic Dissection:** Rapid, easy renal perfusion exam that can be done in conjunction with CT angiograms or multiphasic diagnostic exams. Results provide vital information in renal transplant patients
4. **Stroke/Brain:** Confirmed clinical diagnosis. Specific insult identification. Institution of timely therapy. Ingenious perfusion algorithms. Shorter exam times and dose that is 25-250 percent lower than published multislice scanner protocols.
5. **Lung:** Perfusion imaging of the lung. Accurate information for evaluation of tissue viability in emphysema or COPD patients. Characterization of small lesions. Accurate, early diagnosis of malignant nodules.



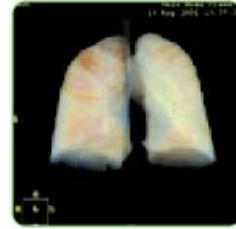
Stroke/brain



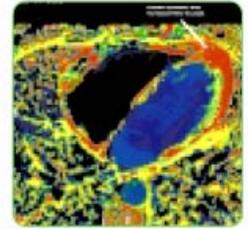
Liver perfusion



Kidney and aortic dissection



Lung



Cardiac

Features and Benefits

- Displays penumbra/infarct maps, which may distinguish between still-viable and non-viable infarcted tissue
- Quantitative color maps of cerebral blood flow (CBF), cerebral blood volume (CBV), mean transit time (MTT) and time-to-peak (TTP) provide valuable clinical information to assist in treatment planning
- Allows the clinician to make reasonably accurate predictions in individual patients about which brain tissue will clinically improve with reperfusion therapy
- Provides both arterial and portal perfusion measurements for whole liver or single location liver studies
- Motion correction for high accuracy
- Large coverage and low dose imaging ensure high quality neuro results

Philips' calcium scoring software rapidly quantifies coronary artery calcifications (CAC). This program includes mass, Agatston and volume scores with automated, customizable reporting for paper and/or electronic results distribution.

Philips' Bone Removal software removes complex bony anatomy of the skull for clear, direct inspection of critical structures such as the carotid siphon and circle of willis vessels. This powerful software also subtracts a low-dose without-contrast CT scan and a with-contrast CTA and segments previously identified bony structures from the angiographic image.

Features and Benefits

- Ideal for cerebral CT angiograms
- Quick and easy to use
- Allows you to save segmentation for later use

CHARACTERISTICS

ISO Shipping Dimensions	Height	8.0 feet nominal
	Width retracted	8.0 feet nominal
	Length retracted	19.875 feet nominal
	Width extended	14.33 feet nominal
	Length extended	19.875 feet nominal
Weight Empty	5,400 lbs	
WITH ISO Weight	13,916 lbs	
Cube	2081.3 cu	
Gantry Room Temperatures	59°F to 82°F	
Console Room Temperatures	59°F to 82°F	
Utility Room Temperatures	59°F to 82°F	
Operating Humidity	20% to 75% non-condensing	
Storage Temperature	22°F to 140°F	
Storage Humidity	10% to 95% non-condensing	
Power Requirements	380/480 nominal Voltage 3Ø, 50/60Hz at 90 kVA Max	

Dimensions and weights

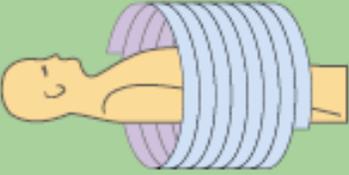
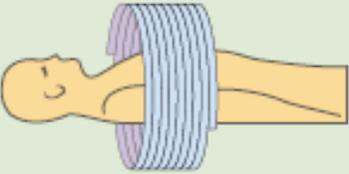
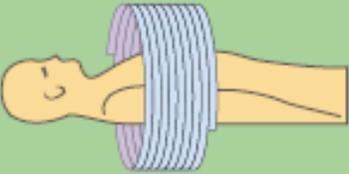
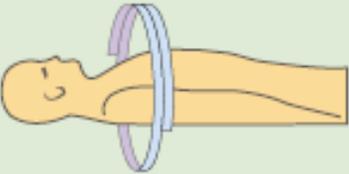
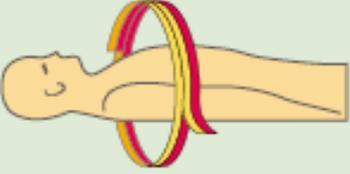
	weight	height	width	depth
gantry	2100 kg (4620 lbs.)	205cm (81")	229cm (90")	98cm (39")
patient table	500 kg (1100 lbs.)	48cm (19")	67cm (27")	225cm (101")
console	70 kg (154 lbs.)	74cm (29")	110cm (44")	79cm (31")
image monitoring (20")	31 kg (68 lbs.)	48cm (19")	49cm (20")	54cm (21")
computer rack	120 kg (264 lbs.)	74cm (29")	66cm (26")	78cm (31")
power cabinet	550 kg (1210 lbs.)	180cm (71")	90cm (36")	75cm (30")
cooling unit (water-water)	500 kg (1100 lbs.)	180cm (71")	90cm (36")	75cm (30")



MX 8000 PHILIPS CT SCANNER





Single-slice scanner		Mx8000 Dual-slice scanner
 <p data-bbox="345 716 578 743">10mm collimation</p>	<p data-bbox="724 541 927 667">double Resolution same Speed same Volume same Power</p>	 <p data-bbox="1011 716 1273 743">2 x 5mm collimation</p>
 <p data-bbox="345 1052 578 1079">68 sec acquisition</p>	<p data-bbox="724 877 927 1003">same Resolution double Speed same Volume same Power</p>	 <p data-bbox="1011 1052 1234 1079">34 sec acquisition</p>
 <p data-bbox="345 1383 535 1411">60cm coverage</p>	<p data-bbox="724 1209 927 1335">same Resolution same Speed double Volume same Power</p>	 <p data-bbox="1011 1383 1227 1411">120mm coverage</p>
 <p data-bbox="345 1715 461 1743">100 mAs</p>	<p data-bbox="724 1541 927 1667">same Resolution same Speed same Volume double Power</p>	 <p data-bbox="1011 1715 1127 1743">200 mAs</p>

COMPARISONS OF SINGLE SLICE SCANNER TO DUAL SLICE SCANNER

**COMPUTED TOMOGRAPHY SCANNER CONSUMABLES AND
ACCESSORIES (START-UP)**

NSN	NOTES	Nomenclature	QTY	UI	PART #	Unit Price	Total Price	MFG	Shelf Life, months	Refrig Y/N	CONUS Ship Time, weeks
7045014445160	Included W/NSN	DISK CD RECORDABLE WRITE ONCE OPTICAL DISK	5 bx / 30	EA	CDR650-74	\$1.06	\$31.80	Maxell	indef	N	2
6525 015244502	Included W/NSN	Cushion Head Rest-Small	1ea	EA	84966	\$29.00	\$29.00	Philips	indef	N	2
6525 015244503	Included W/NSN	Cushion Head Rest-Medium	1ea	EA	84967	\$46.35	\$46.35	Philips	indef	N	2
6525015235017	Included W/NSN	Cushion Head Rest-Large	1ea	EA	84968	\$45.00	\$45.00	Philips	indef	N	2
6525 015244507	Included W/NSN	Cushion Knee Rest	1ea	EA	86768	\$46.35	\$46.35	Philips	indef	N	2
6525 015245076	Included W/NSN	Strap, Head	1ea	EA	313162	\$24.00	\$24.00	Philips	indef	N	2
6525 015244504	Included W/NSN	Strap, Patient Restraining	1ea	EA	311648	\$50.71	\$50.71	Philips	indef	N	2
6525015230336	Included W/NSN	Filter, Air 6 x 13 x.5	1 bx / 100	EA	453567018801	\$13.00	\$130.00	Universal Air	indef	N	2
6525015230343	Included W/NSN	Filter, Air 6 x 19 x.5	1 bx / 100	EA	4533567018751	\$14.77	\$147.70	Universal Air	indef	N	2
6525015230345	Included W/NSN	Filter, Air 8.5 x 11.5 x.5	1 bx / 100	SE	T99-2509	\$14.20	\$142.00	Universal Air	indef	N	2