

CHIEF, A&MMS B3002  
V.A. Medical Cente  
RECEIVING WHSE BLD  
2002 HOLCOMBE BLVD  
HOUSTON, TX 77030-

PO# 580-B30022

Item No.	Qty	Description
1	1	<p>Optima MR430s 1.5T Dedicated MRI System</p> <p>Optima MR430s 1.5T Dedicated MRI System</p> <p>1.5 Tesla musculoskeletal MRI unit is designed specifically for imaging of the extremities; hand, wrist, elbow, foot, ankle, and knee. The unique, open magnet design provides high field resolution imaging optimized for the extremities and can be sited in as little as 222 sq. ft. of space.</p> <p>Magnet System:</p> <ul style="list-style-type: none"><li>• 1.5 Tesla active shield, superconducting magnet, with passive shims.</li><li>• Homogeneity: 16cm diametrical spherical volume.</li><li>• Fringe field: 5 Gauss line 1.85m axial x 1.15m radial.</li><li>• Field stability: &lt; 0.1 ppm/hr.</li><li>• Magnet weight: &lt; 745 lbs.</li></ul> <p>Gradient System:</p> <ul style="list-style-type: none"><li>• 70 mT/m coil strength.</li><li>• 300 T/m/s slew rate.</li><li>• 350 microseconds rise time.</li><li>• Patient friendly, quiet technology: &lt; 100 dB(A).</li></ul> <p>RF Quadrature Transmit/Receive:</p> <ul style="list-style-type: none"><li>• Frequency: 63.8 MHz.</li><li>• RF power: 2,000W peak rms, 75W average.</li><li>• Image BW: Variable 5kHz - 118kHz.</li><li>• Preamp noise fig: &lt; 0.5 dB</li></ul> <p>RF Coils Included:</p> <ul style="list-style-type: none"><li>• 180 mm RF Coil: Removable quadrature volume, transmit and receive coil for lower extremity, such as foot, ankle, and knee.</li><li>• 160 mm RF Coil: Removable quadrature volume, transmit and receive coil for upper or lower extremity, such as knee, foot, and large elbow.</li><li>• 123 mm RF Coil: Removable quadrature volume, transmit and receive coil for upper extremity, such as hand, wrist, and elbow.</li></ul>

#### Computer System:

- PC based, Core 2 Duo Processor, 2.4 GHz minimum.
- 80 GB removable hard drive host computer.
- 400W power supply.
- Windows XP embedded OS with firewall security protection.
- Anti-Virus software compatibility.
- 9.4 GB total (4.7 GB each side) DVD-R/W long-term archival system.
- PC keyboard and serial mouse.
- 19 inch LCD panel Monitor.
- Reconstruction: 2D < 200 msec/image, 3D < 1 sec/plane.

#### Imaging Capabilities:

- Spin Echo and Fast Spin Echo.
- Gradient Echo.
- Driven Equilibrium Sequences.
- 2D and 3D.
- Inversion Recovery.
- Fat Suppression.
- RF Spoiling.
- Spatial Saturation.
- Flow Compensation.
- Automatic Sequential Scans.
- Magnetization Transfer.
- Single and Double Oblique imaging with use of graphical slice selection.
- Slice Interleave.
- Auto Minimum TE.
- No Phase Wrap.
- Rectangular FOV.
- 4cm - 16cm FOV in 1mm increments.
- Slice thickness: 2 mm-10 mm in 0.1 mm increments for 2D, and 0.5 mm-10 mm in 0.1 mm increments for 3D.
- Variable matrix from 64 to 512 in phase and frequency.

#### Image Review:

- Auto display.
- Multiple image display.
- Window/level.

- Pan/zoom.
- ROI.
- Annotate.
- Measurements.
- Multi planar reformat.
- Simultaneity of scan.
- Reconstruction.
- Image Display.
- Filming.
- Archiving.
- DICOM transfer.
- DICOM Worklist for transfer of patient data from facility information system to MSK Extreme.

Ergo Patient Handling System: Manually positioned, free floating cushioned chair with lock-in-position brakes, adjustable seat and back inclination. Supports patient weight up to 350 lb.

Ergo Patient Ottoman: Ergonomically designed patient ottoman improves comfort and stability for imaging knees, ankle/foot and wrist.

Magnet Monitoring Unit (MMU): Sentry remote magnet monitoring system with integrated auto sensor circuitry and virtual magnet monitoring unit enhances remote surveillance with

improved direct access for service monitoring via Internet/phone.

CD Drive with Read/Write Capability: Transfers patient study to CD, and includes PC compatible viewer.

2	1	60 Hz Compressor
		60 Hz Compressor
3	1	1.5T 75' Console Cable Kit
		1.5T 75' Console Cable Kit
4	1	1.5T 25' Compressor Cable Kit
		1.5T 25' Compressor Cable Kit
5	1	1.5T 25' Penetration Panel Cable Kit
		1.5T 25' Penetration Panel Cable Kit

6	1	10 meter Flexline Kit 10 meter Flexline Kit
7	1	Optima MR430s 3.54 Software Optima MR430s 3.54 Software Optima MR430s operator console software Version 3.54 with English user interface.
8	1	MSK, 500 ml QA Phantom MSK, 500 ml QA Phantom
9	2	RF Coil Holder (Supports 3 Coils) RF Coil Holder (supports 3 coils) Mounts on the wall. Mounting screws and instructions are included. Each coil holder supports 3 coils. Quantity of 2 is needed to hold all 6 coils.
10	1	Language Kit - English Optima MR430s Language Kit - English
11	1	Optima MR430s 3.54 Operator Manual Optima MR430s 3.54 Operator Manual
12	1	1.5T MR430s 80mm High-Res RF Coil 1.5T MR430s 80mm High-Res RF Coil Provides maximum SNR, excellent image quality, and patient comfort for imaging small extremities, such as hand, fingers and wrist.
13	1	1.5T MR430s 100mm High-Res RF Coil 1.5T MR430s 100mm High-Res RF Coil Provides maximum SNR, excellent image quality, and patient comfort for imaging small to medium size extremities, such as hand, wrist and elbow.
14	1	1.5T MR430s 145mm High-Res RF Coil 1.5T MR430s 145mm High-Res RF Coil Provides maximum SNR, excellent image quality, and patient comfort for imaging medium size extremities, such as elbow, foot, ankle, and small knee.
15	1	Magnacoustics Genesis Ultra Two Way MRI Communication Music System

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16	1	<p>Coated Knee Rest - 7 in. x 15.25 in. x 28 in.</p> <p>Coated Knee Rest - 7 in. x 15.25 in. x 28 in.</p> <p>This Polyscan-coated knee rest measures 7 in. x 15.25 in. x 28 in and is the same as the knee rest provided with the E8823A MR positioning kit...H</p>
17	1	<p>Coated Extremity Rest - 6.5 in. diameter x 11.5 in.</p> <p>Coated Extremity Rest-6.5 in. diameter x 11.5 in</p> <p>This Polyscan-coated extremity rest measures 6.5 in. diameter x 11.5 in. and is the same as the extremity rest provided with the E8823A MR positioning kit...H</p>
18	1	<p>Coated Rectangle Elbow Pads - Set of 2</p> <p>Coated Rectangle Elbow Pads - Set of 2</p> <p>This set of 2 Polyscan-coated elbow pads measure 0.5 in. x 9 in. x 19.75 in. and are the same as the elbow pads provided with the E8823A MR positioning kit...H</p>
19	1	<p>7-Day Optima MR430s Onsite Training</p> <p>7-Day Optima MR430s Onsite Training</p> <p>7-day onsite training for the Optima MR430s scanner. Training is delivered in 2 visits, one 4 day visit and one 3 day follow-up visit, 8AM to 5PM Monday through Friday. Days are provided consecutively and include T&amp;L expenses.</p> <p>This training program must be scheduled and completed within 12 months after the date of product delivery.</p>