



MAXX-1100

CT ROOM LASER Patient Positioning System



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MAXX-1100



MAXX-1100 Laser System Features

- TCP / IP (Ethernet) and UART (Zigbee) Communication
- Microsoft Windows .NET Based Software (Optional)
- Linux Based Universal MAXX Remote Control Pro
- DICOM 3.0 (Compatible with Main CT Machines)
- Precision Stepper Motor and Optical Encoder
- Both Micro and Macro PWM Adjustments
- Mechanical Zero and Adjustable CT Zero
- Range of Travel: +300.0mm / -300.0mm
- Accuracy: +0.2mm / -0.2mm
- Colors: **Green** or **Red**

Optional Mounting Brackets



Wall Mount



Ceiling Mount

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MAXX Remote Control Operations



- Communicates with MAXX-700, MAXX-1100, and MAXX Combo Set Configurations
- LCD Touch Screen Visual Display
- Full Range and Non-Directional
- Robust Ergonomic Design
- Wireless Communication
- User Friendly Interfaces
- Complete Functionality

MAXX-1100 Remote Control Start Page



MAXX-1100 Laser Position Page



MAXX-1100 Laser Settings Page

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MAXX-1100 Desktop Computer Operations

Patient Data

Patient ID: 61847
Patient Name: Ed, M.
Date of Birth: 1942-05-26
Gender:
Study Date: 2018-02-08

Type of Point	Axis X	Axis Y	Axis Z
Field 1 isocenter	-10	110	30
Field 3 isocenter	-50	120	-45
Field 4 isocenter	-10	110	30
Field 5 isocenter	-10	110	30
Field 6 isocenter	-10	110	30

Laser Control

Laser	Coordinates	Destination	Actions
1 (Z1)	125.5 *		
2 (Z2)	3.7 *		
3 (D)	224.1		

DICOM Server

The storage server is not running.

Reference Diagram

MAXX-1100

MAXX-1100 Desktop Application Main Page



MAXX-1100 Desktop Application Splash Screen

- Microsoft Windows .NET Application
- Communicates through TCP / IP
- Advanced Updated Software
- Ethernet Communication
- User Friendly Interfaces
- DICOM 3.0 Compatible
- Complete Functionality



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MAXX-1100 Desktop Computer Specifications

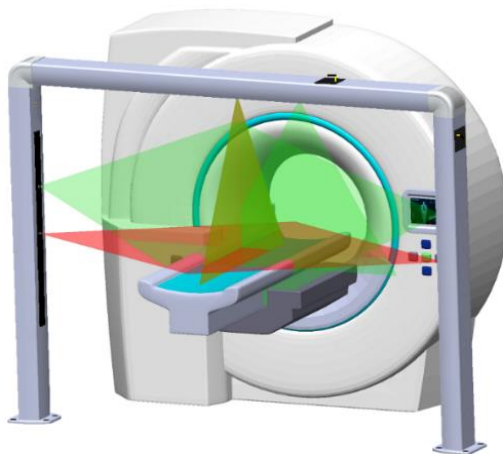
PC Specifications

- Our MAXX-1100 CT laser desktop application is a Microsoft Windows .NET application which is capable of operating individual MAXX-1100 units as well as a complete MAXX-1100 system.
- The computer system communicates through TCP / IP via Ethernet on a local subnet which does not interfere with other networks.
- The desktop application consists of a patient data grid view, laser control panel, DICOM 3.0 storage server, and CT reference diagram.
- Our computer software offers complete functionality identical to the MAXX remote control.
- The application uses robust software and is user friendly.

DICOM 3.0 Storage Server

Our MAXX-1100 CT laser desktop application contains a DICOM server which can handle, store, print, and transmit patient information regarding medical imaging. Our DICOM server is implemented with Grassroots DICOM (GDCM) which is an open-source implementation of the DICOM standard, is written in the C++ programming language, and offers wrapping to follow other target computing languages such as Python, C#, Java, PHP, and Perl.

GDCM includes a network communication protocol as well as file format definitions which provide a complete set of tools which interface with existing medical databases. Our DICOM server in the MAXX-1100 desktop application uses specific computing protocols which interact with the treatment planning system (TPS). The DICOM server can store and retrieve patient data from a shared location on the network. Our MAXX-1100 desktop application capability to successfully communicate with several CT systems such as Elekta, Phillips, Varian, etc.



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MAXX-1100 Laser Specifications

- Four Automatic Axis Movements:
 - X Axis (Horizontal Movement): 600mm (23.6")
 - Z Axis (Vertical Movement): 600mm (23.6")
 - Roll Axis (Horizontal Fine Adjustment Rotation): 8°
 - Pitch Axis (Vertical Fine Adjustment Rotation): 8°
- Focal Distance 3m (10ft)
- Micro and Macro PWM Adjustments
- Continuous PWM Adjustments
- Target Adjustments
- TCP / IP and UART Communication
- Microsoft Windows .NET Based Software
- Linux Based Universal MAXX Remote Control Pro
- DICOM 3.0 (Compatible with Main CT Machines)
- Precision Stepper Motor and Optical Encoder
- Mechanical Zero and Adjustable CT Zero
- Five Customizable Express Points
- Available Colors: **Green** or **Red**
- Focus Adjustment: 0.5m - 3.0m (10ft)
- Range of Travel: +300.0mm / -300.0mm
- Accuracy: +0.2mm / -0.2mm
- Remote Can Communicate With 3 Lasers Each Room
- Operating Temperature: 5°C - 35°C (40°F - 95°F)
- Power Requirements: 100V AC – 240V AC, 1-1A - 2.3A, 50Hz - 60Hz, 120W
- Fuse (Line): 2.0A 250V
- Weight: 34.0kg (74.95 lbs.)
- Dimensions:
 - Length: 1465.6mm (57.7")
 - Width: 198.0mm (7.79")
 - Height: 205.0mm - 240.0mm (8.07" - 9.45")



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