



**MAXX-1100**

**CT ROOM LASER**  
Patient Positioning System



**MAXX**

**CENTARLINE**



# MAXX-1100



## MAXX-1100 Laser System Features

- TCP / IP (Ethernet) and UART (Zigbee) Communication
- Microsoft Windows .NET Based Software (Optional)
- New MAXX Tablet with Dock and Protective Casing
- 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



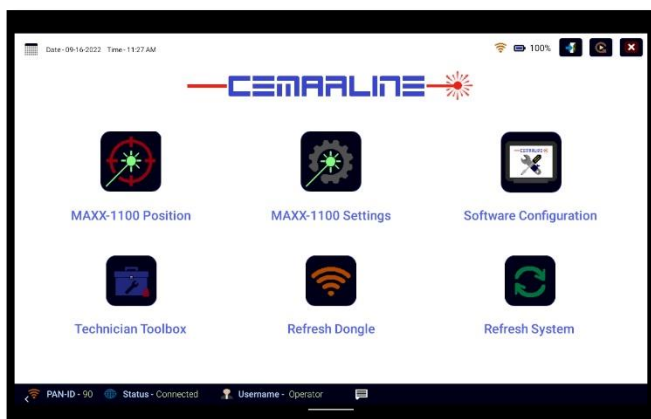
Ceiling Mount

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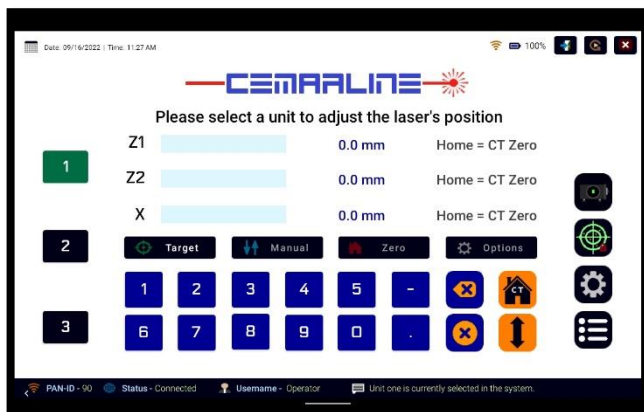
# MAXX-1100

## MAXX Tablet Operations

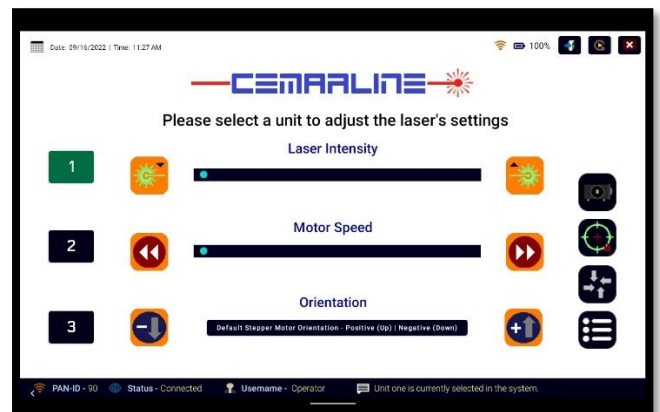


MAXX-1100 Application Start Page

- Communicates with MAXX-700, MAXX-1100, and MAXX Combo Set Configurations
- Improved LCD Touch Screen Tablet with Charging Dock and Protective Casing
- Advanced and Up to Date Software
- Durable Wireless Communication
- Updated User Friendly Interfaces
- Extended Battery Capacity
- Complete Functionality



MAXX-1100 Laser Position Page



MAXX-1100 Laser Settings Page

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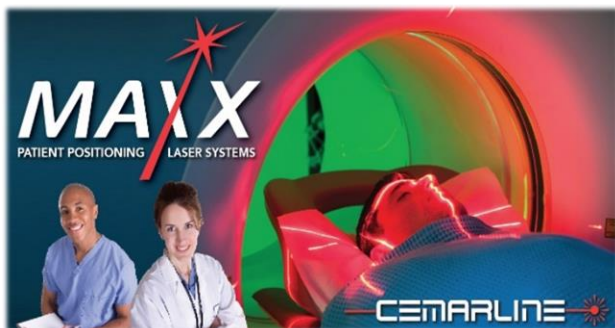
# MAXX-1100

## MAXX-1100 Desktop Computer Operations

The screenshot shows the MAXX-1100 Desktop Application Main Page. The interface is divided into several sections:

- Patient Data:** Displays patient information including Patient ID (61847), Patient Name, Date of Birth (1942-05-26), Gender, Study Date (2018-02-08), and Plan Date (2018-02-08). It also includes a table for Type of Point (Field 1 to Field 6) with coordinates for Axis X, Axis Y, and Axis Z.
- Laser Control:** Features a table for Laser coordinates and destinations, and a set of control buttons for actions like Move, Home, and Config.
- DICOM Server:** Shows a status message: "The storage server is not running." and includes buttons for Start, Load Data, and Clear Data.
- Reference Diagram:** A 3D diagram illustrating the laser system's geometry, showing the X, Y, and Z planes and the laser beams.

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

## MAXX-1100 Desktop Computer Specifications

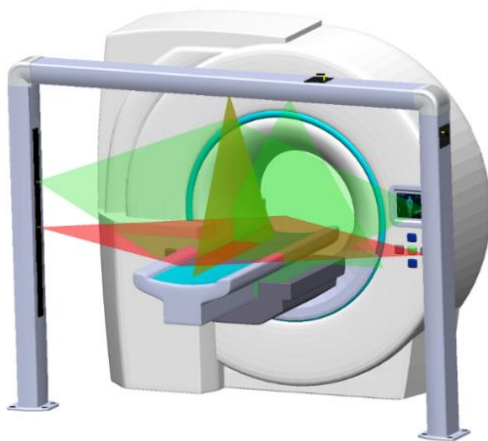
### PC Specifications

- 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 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 Compatible

Our MAXX-1100 CT laser desktop application contains a DICOM server which can handle, process, 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 application can process and retrieve patient data from a shared location on the network regarding medical imaging provided by the hospital's server. Our MAXX-1100 desktop application has the capability to successfully communicate with several CT systems such as Elekta, Phillips, Varian, etc.



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# MAXX-1100

## 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
- New and Improved Universal MAXX tablet
- 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
- Tablet 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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