

MS500

MUSIC STREAMER
OWNER'S MANUAL



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MtIntosh

Thank You from all of us at McIntosh

You have invested in a precision instrument that will provide you with many years of enjoyment. Please take a few moments to familiarize yourself with the features and instructions to get the maximum performance from your equipment. If you need further technical assistance, please contact your dealer who may be more familiar with your particular setup including other brands. You can also contact McIntosh with additional questions or in the unlikely event of needing service.

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Table of Contents

Thank You and Please Take a Moment	
Technical Assistance and Customer Service	
Table of Contents	
Trademark and License Information	
General Information	
Connector and Cable Information	
Introduction	
Performance Features	
Dimensions	
Installation	
Rear Panel Connections	
AC/DC Adapter	
MS500 Connections	
Front Panel	12
How to use the Remote Control	1.
How to Operate the Setup Mode	14-1
How to Operate the MS500	
Photos	2
Specifications	2
Packing Instructions	2

Trademark and License Information

The McIntosh MS500 incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights.

Introduction

The McIntosh MS500 Music Streamer offers the latest in audio technology, providing state of the art audio reproduction with the convenience of instant access to your music library. When the MS500 is added to a McIntosh System, the music from this source may be enjoyed in your home. The advanced design ensures many years of smooth trouble free operation.

Please Take A Moment

For future reference, you can write down your serial number and purchase information here. We can identify your purchase from this information if the occasion should arise:

Serial Number:

Purchase Date:_____

Dealer Name:

Safety First

Please read the safety instructions included in a separate document called **Important Additional Operation Information Guide**.

General Information

- 1. For additional connection information, refer to the owner's manual(s) for any component(s) connected to the MS500 Music Streamer.
- 2. When the MS500 Music Streamer is connected to an audio system, playback of music already stored on it may be listened to. To take full advantage of the many features the MS500 is capable of, such as importing and storing additional music on the Music Streamer, requires connection to a Computer Network System.
- 3. For best performance, the network speed the MS500 Music Streamer would be connected to should be 1 Gigabit or faster.
- 4. The MS500 internal Digital to Analog Converter Circuitry is designed to decode 2-channel PCM (Pulse Code Modulation) Digital Signals up to 24Bit 192kHz. The Digital Output Signal present at the Coaxial and Optical Output Connectors is a 2-channel PCM (Pulse Code Modulation).
- 5. The MS500 is designed to be compatible with the majority of Audio Power Amplifiers. However, it is important the input sensitivity of the amplifier be at least 2 Volts. This will assure the playback of most music recordings are reproduced with adequate dynamic range. Check with your McIntosh Dealer for additional information.
- 6. The IR Input, with a 3.5mm mini phone jack, is configured for non-McIntosh IR sensors such as a Xantech Model DL85K Kit. Use a Connection Block, such as a Xantech Model ZC21, when two or more IR sensors need to be connected to the MS500.
- 7. When discarding the unit, comply with local rules or regulations. Batteries should never be thrown away or incinerated but disposed of in accordance with the local regulations concerning battery disposal.

- 8. If it should become necessary to replace the supplied AC / DC Power Adapter, order part number 32059900 from the McIntosh Parts Department.
- 9. For additional information on other McIntosh Products please visit the McIntosh Web Site at www. mcintoshlabs.com.
- 10. Mobile Device Apps for remote control operation of the MS500, are available. Go to the McIntosh Web Site at http://www.mcintoshlabs.com/us/ Support/Pages/Manuals.aspx
- 11. Under "PRODUCT CATEGORY" select "Media Streamers" then under "MODEL NUMBER" select "MS500". Click on "SEARCH" then click on the MS500 Music Streamer App (iPhone, iPad or Android) for your mobile device.

Connector and Cable Information

XLR Connectors

Below is the Pin configuration for the XLR Balanced Output Connectors on the MS500. Refer to the diagram for connection:

PIN 1: Shield/Ground

PIN 2: + Output

PIN 3: - Output

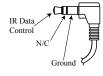
Data and IR Input Port Connectors

The MS500 Data In Port receives Remote Control Signals. A 3.5mm stereo mini phone plug is used for connection. The IR Ports also use a 3.5mm stereo mini phone plug Data and allow the connection of other brand IR Receivers to the MS500.

Connector Information (continued)

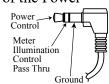
Power Control Connector

The Power Control Input Jack receives Power On/Off Signals (+12 volt/0 volt) when connected to other McIntosh Components. The



Power Control Output Jack sends Power On/Off Signals (+12 volt/0 volt) when connected to other McIntosh Components. An additional connection is for controlling the illumination of the Power

Output Meters on McIntosh Power Amplifiers. A 3.5mm stereo mini phone plug is used for connection to the Power Control Jacks.



Ethernet RJ45 Socket

- 1. Transmit Data (+) 5. N/C
- 2. Transmit Data (-) 6. Receive Data (-)
- 3. Receive Data (+) 7. N/C
- 4. N/C 8. N/C

Ethernet Cable - Straight Thru Connections

Pin Number - Wire Color **Pin Number - Wire Color**

- 1. Orange/White 1. Orange/White
- 2. Orange
- 3. Green/White
- 4. Blue
- 5. Blue/White
- 6. Green
- 7. Brown/White
- 8. Brown

- 2. Orange
- 3. Green/White
- 4. Blue
- 5. Blue/White
- 6. Green
- 7. Brown/White
- 8. Brown



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Performance Features

• Built-in Networking Capability

The MS500 has the ability to connect to an existing network for connecting to other devices also connected to the network, including the Internet (the Cloud).

• High Storage Capacity

The MS500 incorporates a massive 500 Gigabyte Hard Drive capable of storing the contents of a large Music Collection.

• Expand the Music Server System

The MS500 can provide seamless access to music contained on other MS500(s) from different physical locations. It can also access music stored on other devices such as Computers and NAS (Network Assisted Storage) Devices connected to the same network as the MS500. This provides for unlimited music storage capacity.

• USB 3 and USB 2 Inputs

Connect external storage devices to the MS500 for increased music storage capacity.

• Internet Streaming Services

The MS500 also allows for listening to Internet Stations when connected.

• Local AM/FM Radio Stations

The MS500 also allows for listening to AM/FM Stations via the Internet Connection.

• Select your Music

Listen to the music you want by creating your own play lists and/or groups of music types.

• Digital Audio Outputs

There is a Coaxial and an Optical Digital Audio Output (SPDIF) for connection to other components.

• Balanced and Unbalanced Analog Outputs

The MS500 has both Unbalanced Outputs and Balanced Outputs which permit long cable lengths without a loss in sound quality.

• Graphical User Interface

When connected to a TV/Monitor, the On Screen Display provides information such as Album Name, Artist Name, Song Name, Playing Time and Location for each of the selections. This allows for easy song selection from multiple rooms in your home.

HD Video Outputs

The MS500 has HDMI and VGA Connections for providing High Definition Video Signals of 1080p or 720p resolutions.

On Screen Setup

The On Screen Setup allows for customizing various settings such as audio, video, network and external control to match the components in your system.

• Quiet Fan Less Operation

Enjoy your music even at low system volume settings.

• Power Control

The Power Control Input connection provides convenient Turn-On/Off of the MS500 when connected to a McIntosh System with Power Control.

• Remote Control

The Remote Control with illuminated push-buttons, provides control of the MS500 operating functions. A Data Port Connection to a McIntosh A/V Processor or Preamplifier allows for convenient system operation using one Remote Control. An External IR Sensor Input allows for remote operation when the MS500 is located behind closed doors.

• Illuminated Glass Front Panel

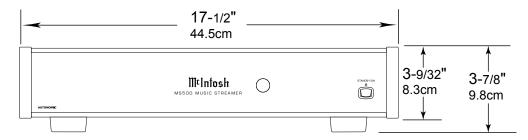
The famous McIntosh Glass Front Panel is evenly illuminated by multiple extra long life Light Emitting Diodes (LEDs), arranged with a special orientation. The pristine beauty of the MS500 will be retained for many years.

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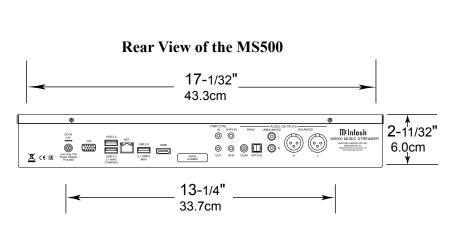
Dimensions

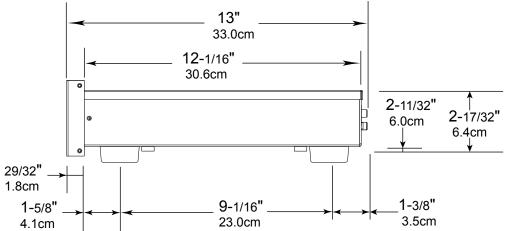
The following dimensions can assist in determining the best location for your MS500. There is additional information on the next page pertaining to installing the MS500 into cabinets.

Front View of the MS500



Side View of the MS500





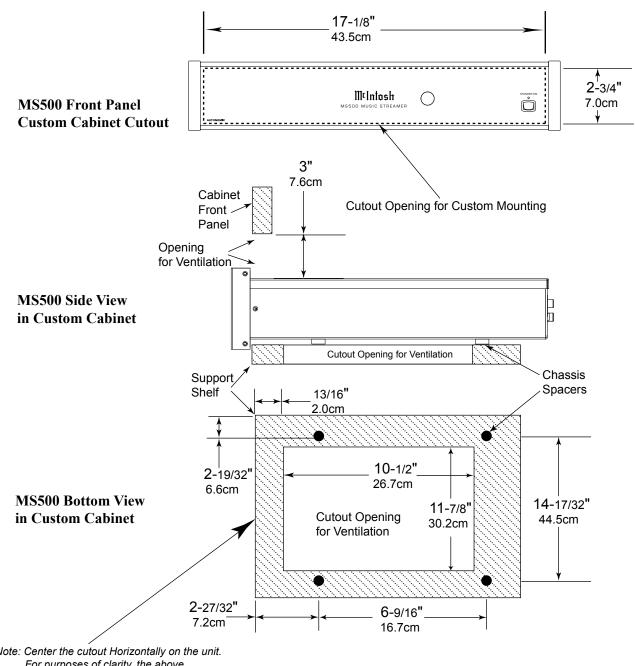
Installation

The MS500 can be placed upright on a table or shelf, standing on its four feet. It also can be custom installed in a piece of furniture or cabinet of your choice. The four feet may be removed from the bottom of the MS500 when it is custom installed as outlined below. The four feet together with the mounting screws should be retained for possible future use if the MS500 is removed from the custom installation and used free standing. The required panel cutout, ventilation cutout and unit dimensions are shown.

Always provide adequate ventilation for your MS500. Cool operation ensures the longest possible operating life for any electronic instrument. Do not install the MS500 directly above a heat generating component such as a high powered amplifier. If all the components are installed in a single cabinet, a quiet running ventilation fan can be a definite asset in maintaining all the system components at the coolest possible operating temperature.

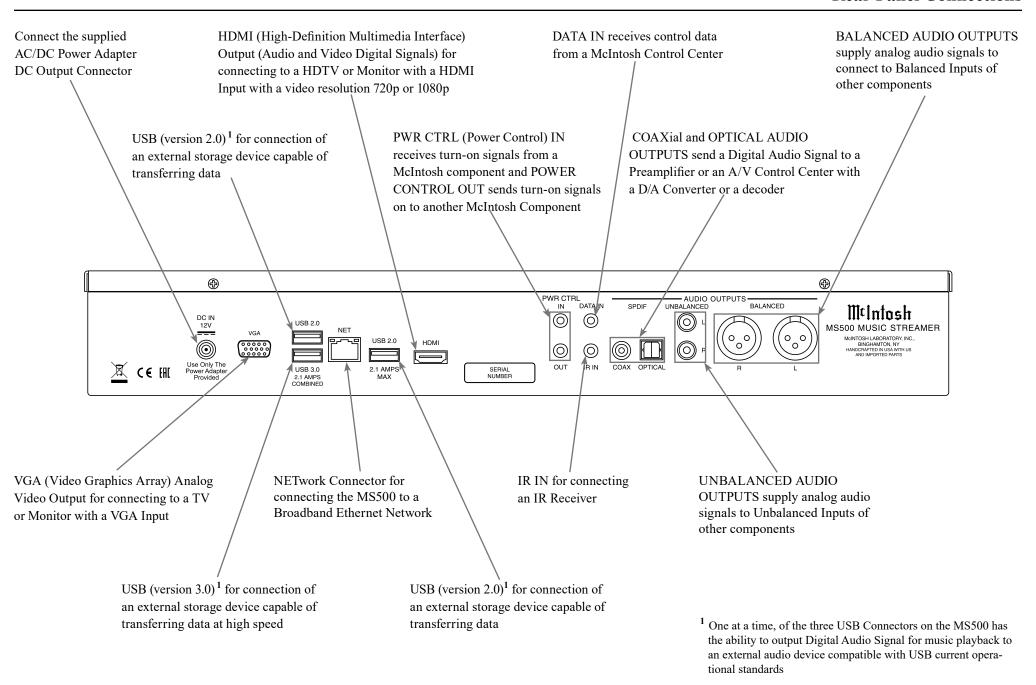
A custom cabinet installation should provide the following minimum spacing dimensions for cool operation.

Allow at least 3 inches (7.6cm) above the top, 2 inches (5.1cm) below the bottom and 1 inch (2.5cm) on each side of the Music Streamer, so that airflow is not obstructed. Allow 17 inches (43.2cm) depth behind the front panel. Allow 29/32 of an inch (1.8cm) in front of the front panel for clearance. Do not block the openings on the top cover or the three rows of louvers opening on the bottom of the MS500. Be sure to cut out a ventilation hole in the mounting shelf according to the dimensions in the drawing.



Note: Center the cutout Horizontally on the unit. For purposes of clarity, the above illustration is not drawn to scale.

Rear Panel Connections



MS500 Connections

The MS500 has the ability to be remotely switched On/Off from a McIntosh Preamplifier or A/V Processor via the Power Control connection. The MS500 Data Port Connection allows for the remote operation of basic functions using the Preamplifier, Integrated Amplifier or A/V Control Center Remote Control. With an external sensor connected to the MS500, remote control operation is possible from another room and/or when the MS500 is located in a cabinet with the doors closed.

The connection instructions below together with the MS500 Connection Diagram on the next page is an example of a typical audio or audio/video system. Your system may vary from this, however the actual components would be connected in a similar manner. For additional information refer to "Connector and Cable Information" on page 3.

Power Control Connections:

- 1. Connect a Control Cable from the Preamplifier, Integrated Amplifier or A/V Processor Power Control MAIN (or ACC) Jack to the PWR CTRL (Power Control) IN Jack on the McIntosh MS500 Music Streamer.
- 2. Optionally, connect a Control Cable from the MS500 Music Streamer PWR CTRL OUT Jack to another component.
- 3. Connect any additional components in a similar manner, as outlined in steps 1 thru 3.

Data Control Connections:

4. Connect a Control Cable from the Preamplifier, Integrated Amplifier or A/V Processor Data Port 1 Jack to the McIntosh MS500 Music Streamer DATA IN Jack.

Sensor Connections:

5. Optionally, connect an IR Sensor to the McIntosh MS500 Music Streamer IR IN Jack.

Digital Audio Connections:

6. Optionally, connect a Cable from the McIntosh MS500 Music Streamer AUDIO OUTPUT SPDIF OPTICAL Output to the Digital Audio Input Optical 1 Input on the Preamplifier, Integrated Amplifier or A/V Proces-

Note: Coaxial connections may be used instead of the Optical Connections.

Analog Audio Connections:

7. Connect a Cable from the McIntosh MS500 Music Streamer AUDIO OUTPUT BALANCED connectors to the Preamplifier, Integrated Amplifier or A/V Processor Balanced 1 Input connectors. Note: Unbalanced connections may be used instead of the Balanced Connections.

Digital Video Connections:

8. Connect a HDMI Cable between the HDMI Socket on the Rear Panel of the MS500 Music Streamer to a HDMI Input Socket on the HD Monitor/TV.

Notes: 1. If the Monitor/TV has a VGA Input and no HDMI input, then connect a VGA cable between the MS500 and *the Monitor/TV.*

2. The MS500 HDMI Output Socket provides Video Signals only. For Audio Signal Playback, perform connections in step 6 or 7.

Network Connections:

- 9. Using a CAT 5/6 Ethernet Cable, connect the cable from the Router to the NET (Network) connector on the Rear Panel of the MS500.
- 10. Optionally, connect another CAT 5/6 Ethernet Cable from the Computer (Network Connector) to the Router. Note: For additional information on Networks and Network Connections refer to the documentation supplied with the Router and Computer.

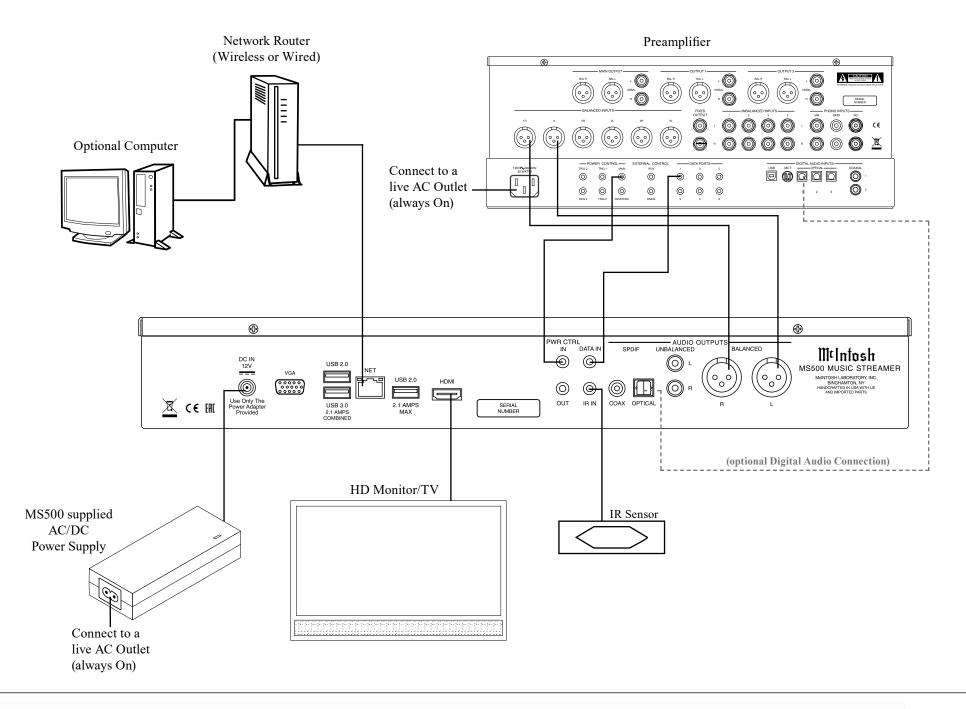
AC Power Cords Connections:

- 11. Locate the plug at the end of the cable coming out of the supplied AC/DC Power Supply and connect it to the DC Input connector on the Rear Panel of the MS500 Music Streamer.
- 12. Connect the supplied AC Power Cord between the socket on the AC/DC Power Supply and a live AC outlet (that is always On).

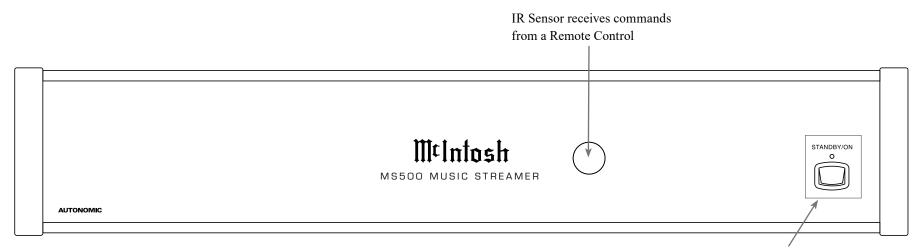
The AC/DC Power Adapter supplied AC/DC Adapter power with the MS500 Music Streamer On LED Indicator Connect to a live AC outlet (always On) Connect to the DC IN connector on

using the supplied AC Power Cord. Refer to information on the power supply to determine the correct voltage.

the Rear Panel of the MS500 Music Streamer



Front Panel LEDs and Push Button



STANDBY/ON Push-button with indicator switches the MS500 ON or OFF (Standby) and resets the microprocessors

How to use the Remote Control

The Remote Control is capable of performing most Operating Functions for the MS500 Music Streamer. Note: Refer to the "How to Operate" Section of this manual for additional information using this Remote Control.

Dual Function Push-buttons

The five push-buttons located at the top/front of the Remote Control, in the circular molded area, are dual function. When music is playing, the (+) Push-button increases the volume level¹ and the (-) Push-button decreases the volume level¹. Push the ▶ Push-button for the next selection or push the ▶ Push-button for the previous selection.

During the time a MS500 Menu is being accessed, the push-buttons at the top/front of the Remote Control provide the ability to navigate the menus and select the desired choice or function. The (+) Push-button is used to move the cursor Up through the menu. Likewise, the (-) Push-button is used to move Down. The 44 Push-button is used to move to the Left, the Push-button is used to move to the Right and the Push-button is used to Select the highlighted choice.

SELECTS the current Directional Push-buttons; + (Up), - (Down), ₩ menu item and also Increases the (Left), ► (Right) and ► (SELECTS) starts playback and volume level pauses playback Selects the next selection Selects the previous selection Momentarily press to Power the MS500 ON or OFF Decreases the ▶II volume level Indicates when a Remote Control Current selection Command has been sent is liked (\mathbf{p}) Current selection Selects a Menu i is disliked Selects available Milntosh information Reserved for future use Moves forward in time through a selection

¹Adjusting the volume level using the Remote Control requires a change to the default setting located in the Setup Mode, refer to pages 14 and 15 for additional information.

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How to Operate Setup Mode

The McIntosh MS500 is factory configured for immediate enjoyment of superb audio. If you wish to make changes to the factory default settings, a Setup Feature is provided to customize the operating settings using a PC Computer (not supplied) and with the MS500 connected to a HD Monitor/TV. Start the Setup Mode by performing the following steps:

1. Press the MS500 Front Panel STANDBY/ON
Push-button or press the (b) (Power) Push-button
on the Remote Control to switch On the MS500.
Refer to page 13 for information on using the
Remote Control. The LED above the STANDBY/
ON Push-button will illuminate. The MS500 will
go through a startup initialization which might
take upwards of 1.5 minutes with it connected to a
HD Monitor/TV indicating the progress. Refer to
figures 1 and 2.



Figure 1



Figure 2

2. When the initialization is completed, the operational screen will appear and in the upper left corner is the "Server IP Address: ___. __. __. Write down the IP Address Number, as it will be used in the next step. Refer to figure 3.



Figure 3

Note: If the "Server IP Address" number appears as 0.0.0.0, the MS500 was unable to obtain an IP Address from the computer network. Power down the MS500, wait several minutes and then Switch it back On. If the MS500 is still unable to obtain an IP Address, the default automatic configuration setting (DHCP, Dynamic Host Configuration Protocol) might have to be set manually. Contact your Computer Dealer or the Computer Manufacture for assistance.

3. Using a computer connected to the same network as the MS500, launch the Internet Web Browser Application and type in on the "URL-Address line", the following:

The IP Address Number written down in step 2

HTTP://__.__/config

Then press Enter on the computer keyboard. Refer to figure S1. The Setup Tabs at the top of the window:

Setup Option Tabs	Figure Number
Server Settings	S1
Display Settings	S2
Source Settings	S3
Content	S4
Schedule	S5
Firmware	S6

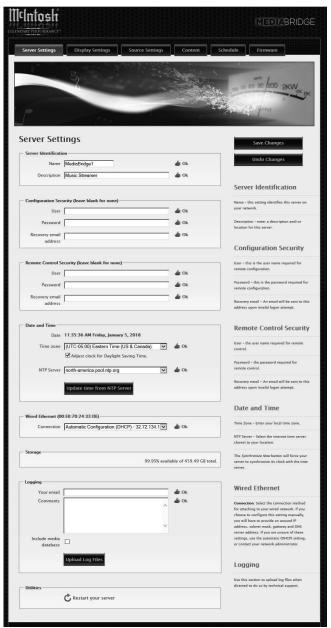


Figure S1

How to Operate Setup Mode (continued)

Each of the tabs has subheadings with current settings status information along with various setup options. There are explanations located to the right of the various options and settings.

- 4. Select "Display Settings". Refer to figure S2.
- 5. To change the "Screen Resolution" from the defaut setting of 720p to 1080p, click on the circle ahead of " 1080p 1920x1080".
- 6. To implement the Setup change just made, Click on the Display Settings Button "Save Changes". Then press the MS500 Front Panel STANDBY/ON Push-button or press the (1) (Power) Push-button on the Remote Control to switch OFF the MS500.
- 7. Press the Front Panel STANDBY/ON Push-button or press the ((Power) Push-button on the Remote Control to switch ON the MS500.
- 8. After any other changes have been made and saved, proceed to "How to Operate" starting on page 16.



Figure S2



Figure S3

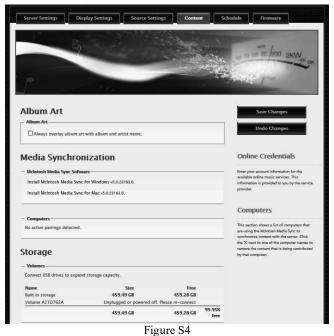




Figure S5



Figure S6

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How to Operate the MS500

Power On and Off

Your McIntosh MS500 has been factory configured for default operating settings that will allow immediate enjoyment of superb audio without the need for further adjustments. To make changes to the default settings, refer to the Setup Mode on page 14.

- 1. Press the STANDBY/ON Push-button on the Front Panel or press the (b) (Power) Push-button on the Remote Control to switch On the MS500. Refer to figures 5, 6 and 7. The LED above the STANDBY/ON Push-button will start flashing during the MS500 startup initialization process, which might take upwards of 30 seconds.

 The HD Monitor/TV connected to Figure 5
 - the MS500 will indicate the startup initialization procedure progress. Refer to figures 8, 9 and 10.
- 2. To switch Off the MS500, press the STANDBY/
 ON Push-button on the Front Panel or press the () (Power) Push-button on the Remote Control. Refer to figures 5 and 6.



Figure 6

Multosh
HEGNON MATORMANCE
MEDIVASRIDGE

Figure 8



Figure 9



Figure 10

Start Music Playback

Music was imported into the MS500 Music Streamer, at the factory, for your enjoyment. To start listening to the music, perform the following:

1. Press the (=) (MENU) Push-button on the Remote Control to select the Operation Menu. Then using

- the (Down) Push-button on the Remote Control, select the "Music Menu" followed by pressing the ►II (SELECT) Push-button to select "Album Menu". Refer to figures 11 and 12.
- 2. Press the ► (SELECT) Push-button on the Remote Control to view the available Albums. Refer to figure 13.



Figure 11



Figure 12



Figure 13

3. Use the + (Up) or - (Down) Push-button on the Remote Control to select the desired album. In this instance, select "Various Artists - Beethoven:Symphonies Nos. 5&9 Choral; Piano Concert". Then press the ►|| (SELECT) Push-button to select the album. Refer to figure 14.



Figure 7



Figure 14

4. Referring to figure 15, the track for the album just selected will appear. In this instance there is one track "Symphony No. 9 (Scherzo)". Press the ►II (SELECT) Push-button on the Remote Control to start playback of the first track. Refer to figure 16.



Figure 15



Figure 16

The TV/Monitor will start to display various scenes while the music is playing. Refer to figures 17 and 18.

5. To pause playback of the music, press the ►II (SE-LECT) Push-button on the Remote Control. To resume playback, just press the same Push-button again. To see the status of the track currently playing, press the ■ MENU Push-button and refer to information located at the bottom of the screen. Refer to figure 15 and 16.



Figure 17



Figure 18

How to Stream Music

The MS500 Music Streamer provides access to virtually unlimited music by streaming music from the Internet. To start streaming music from the Internet, perform the following:

1. Press the (■) (MENU) Push-button on the Remote Control to select the Home Menu. Refer to figure 19.



Figure 19

2. Press the ►II (SELECTS) Push-button on the Remote Control to select the "Streaming Menu". Refer to figure 20.



Figure 20

There are many pre-setup Internet Radio Sites to choose from, including Deezer, Murfie, Pandora Internet Radio, SiriusXM Internet Radio, Slacker Radio, Spotify, TIDAL, etc. Some Internet Radio Sites require registering and in some instances a subscription fee in order to enjoy their music services. Using the MS500 Setup Mode on pages 14 and 15, refer to the Contents tab and then the Online Credentials for additional information. In the following example, TuneIn Radio will be selected to stream music from local FM/AM radio stations.

3. Using the + (Up) or - (Down) Push-button on the Remote Control, select TuneIn Radio from the menu. Refer to figure 21.



Figure 21

4. Refer to figure 22 on the next page, then press the ►II (SELECTS) Push-button to select Local Radio.

How to Operate the MS500 (continued)



Figure 22

5. There are now menu choices AM, FM or Internet only radio stations. Referring to figure 23, use the + (Up) or — (Down) Push-button to select FM, followed by pressing the the ►II (SELECTS) Push-button.



Figure 23

6. Referring to figure 24, it follows the same procedure as in step 5, select the fourth choice, "89.3 WSKG-FM (Classical Music)". The sound from the station will start, refer to figure 25.



Figure 24



Figure 25

How to Operate the MS500 via a Computer

After the MS500 has powered up and completed initialization, the IP Address assigned to the Music Streamer will appear in the upper left corner. Refer to figure 26.



Figure 26

 Using a computer connected to the same network as the MS500, launch an Internet Web Browser Application (such as Windows Internet Explorer).
 Type in on the "URL-Address line" the following: The IP Address Number



2. A connection progress indicator will appear in the Web Browser. Refer to figure 27.



Figure 27

3. When the connecting process is completed, the-Music Streamer interface will appear in the Web Browser. Refer to figure 28.



Figure 28

Note: The operation of the MS500 using the Web Browser is similar to using the MS500 connected to a monitor/TV along with the supplied Remote Control. The major difference is the computer pointing device (mouse) is used for selection and navigation.

On the left side is a column of buttons for selecting music sources (Streaming, Local Music, Favorites, Playlists and Queue) along with Back and Next control commands. Along the bottom are buttons for standard control functions such as Previous, Play, Pause, Next, Shuffle and Replay.

How to Operate the MS500 (continued)

How to Playback Music

McIntosh Music was imported into the MS500, at the factory, for your enjoyment. To start listening to the music, perform the following:

- 1. Click on the Local Music button. Refer to figure 28.
- 2. Click on "Albums", then select "Beethoven". Refer to figure 29.



Figure 29

3. Click on the track listing of "1 Symphony No. 9 (Scherzo) 1:15" and click on "Play now". Refer to figures 29 and 30.



Figure 30

4. Return to the previous menu selection of "Play now, Play next, Replace queue, Add to queue or Add to playlist" by clicking on the Track (Name) currently playing.

How to Stream Music

The MS500 Music Streamer provides access to virually unlimited music by streaming music from the Internet. To start streaming music from the Internet, perform the following:

1. Click on the Streaming button and the Radio sources menu will appear. Refer to figure 31.



Figure 31

In the following example TuneIn Radio will be selected to stream music from local FM/AM radio stations.

2. Select and click on TuneIn Radio. Click on Local Radio followed by selecting FM. Refer to figures 32 and 33.



Figure 32



Figure 33

3. Referring to figure 34, select the second choice, "89.3 WSKG-FM (classical)". The sound from the station will start and figure 35 will appear.



Figure 34



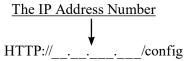
Figure 35

How to Operate the MS500 (continued)

Using External Drives with the MS500

The MS500 has three different uses for connected External Drives "ADD, IMPORT or MOUNT". Before proceeding with the steps below, switch power Off to the MS500. Then connect the External Drive (HDD, SDD or USB Flash Memory) to an USB connector on the Rear Panel of the MS500. After the MS500 has powered up and completed initialization, note the IP Address in the upper left corner.

 Using a computer connected to the same network as the MS500, launch an Internet Web Browser Application (such as Windows Internet Explorer).
 Type in on the "URL-Address line" the following:



- 2. Then press enter on the computer keyboard. Refer to figure 36 (partial view).
- 3. Click on the "Content" Tab (located along the



Figure 36 (partial view)

top), then scroll down to "Storage". Referring to figure 37, the three options for the external USB Connected Drive appears next to the "Free" Space Listing. The option choices include "ADD, IM-PORT or MOUNT". When any one three choices are selected, a new window will appear explaining the functioning, any possible limitations and "OK" to activate the chosen choice. Refer to figures 38, 39 and 40

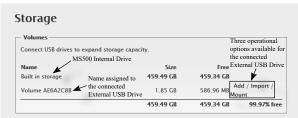


Figure 37

IMPORT Music to the MS500

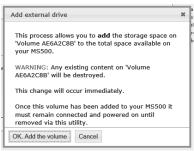


Figure 38

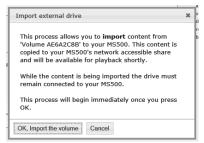


Figure 39



Figure 40

ADD External Storage Space to the MS500

With an External USB Drive connected to one of the MS500 Rear Panel USB Connectors, the "ADD" option will become available.

Note: Do not remove the external drive after the "ADD" option is activated.

1. Start the ADD process by clicking on the button "OK, Add the volume". Refer to figure 38 and then figure 41.



Figure 41

2. When the external drive is to be removed from the MS500, select "Remove from server" and then start the remove process by clicking on the button "OK, Remove the volume". Refer to figures 42 and 43.

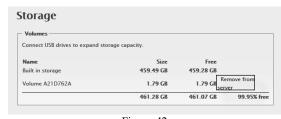


Figure 42



Figure 43

With an External USB Drive connected to one of the MS500 Rear Panel USB Connectors, the "IMPORT" option will become available.

- 1. Start the Import process by clicking on the button "OK, Import the volume" (Figure 39). During the "Import" functioning, various messages will appear in the window indication the "Importing status". Refer to figure 41, 42 and 43.
- Note: After an external drive is connected to the MS500 and the "ADD" option is activated it can not be disconnected until after the import process copies all of the music files it finds on the externally connected storage drive. Depending on the amount of music files on the drive, the copying process could take some time.
- 2. Start the import process by clicking on the button "OK, Import the volume". Refer to figures 44 and 45.



Figure 44



Figure 45

3. Then select local music, click on albums, and select the music just Imported into the MS500.

MOUNT External Storage Drive to the MS500

With an External USB Drive connected to one of the MS500 Rear Panel USB Connectors the "MOUNT" option will become available.

1. Start the Mount process by clicking on the button "OK, Mount the volume" (Figure 40). During the "Mount" functioning, various messages will appear in the window indication the "Mount status". Refer to figure 46.

Note: Do not remove the external drive after the "Mount" option is activated.



Figure 46

2. If when the external drive is to be removed from the MS500, select "Unmount". Refer to figure 47.



Figure 47

How to Operate the MS500 (continued)

Using the McIntosh Media Sync Program

The McIntosh Media Sync Computer Program allows you to select music that is stored on your computer(s) and other components that are also connected to the same computer network as the McIntosh MS500 Music Streamer. The program will automatically copy the selected music onto the MS500. After the music is copied on to the MS500, it will also automatically remove it from the MS500 after the music is removed the from the computer(s) and the other components on the computer network. Perform the following steps to install the McIntosh Media Sync for Windows:

- Notes: 1. If your computer is an Apple Mac unit, the McIntosh Media Sync for Mac can be installed instead.
 - 2. The McIntosh Media Sync Program is designed to work on a Home Computer Network System.
- 1. Using your computer connected to the same network as the MS500, launch an Internet Web Browser Application (such as Windows Internet Explorer). Type in on the "URL-Address line" the following:

The IP Address Number



2. Then press enter on the computer keyboard. Refer to figure 48 (partial view).



Figure 48 (partial view)

3. Click on the "Content" Tab (located along the top), then scroll down to "Media Synchronization". Referring to figure 49,



Figure 49

4. Select "Install McIntosh Media Sync for Windows".

5. A small window ap-The InstallAware Wizard is verifying the contents of this setup package. This may take a moment. pears at the bottom of the screen, then click on the "Run" button Figure 50 to start the installation of the MediaSyncSetup.exe Program. Refer to figures 49 thru 55.

6. When figure 55 appears on the screen, click on the "Finish" button to start the just installed McIntosh Media Sync Program.

Note: To start the McIntosh Media Sync Program, select hidden icons and click on the icon. Refer to figure 56.





< Back Next > Cancel

Figure 54

Figure 53



Figure 55

Once the McIntosh Media Sync Program is installed on the computer and has been started, there are some additional functions that need to be completed for actual operational functioning for your computer network system that the MS500 is connected to. Perform the following steps:

7. Currently on the Computer Screen the STATUS Tab should be displayed. Refer to figure 57.

How to Operate the MS500 (continued)

- 8. In the top pull down window, the display should be indicating "MediaBridgel -Media Control Server on MediaBridge 1 (IP address). The IP Address is the current MS500 IP Address as displayed in the upper left corner on TV/Monitor the MS500 is connected
- 9. If the Server IP Address needs to be changed, select the top pull down window **▼** and then select the "Add Server". Refer to figure 58.

to.

- 10. Add in the new IP Address in the "Add Server" window and then click on "Add Server". Refer to figure 59.
- 11. After the IP Address settings have been completed, click on the "iTunes" Tab for the iTunes Music Settings. Refer to figure 60.

Note: If there is no iTunes Library Music on your computer the "iTunes Tab" will be replaced by a grayed out "iTunes (Missing Library)" Tab.







Figure 59



Figure 60

- 12. After selecting the "iTunes Tab", click on the "Automatically update iTunes music" and the "Update all Music and Playlists". Then select the desired "Playlists" and the Music Catagory(s) appearing in the white window. Refer to figure 61.
- Note: To prevent deleting Music unintentionally, please ensure *iTunes* is sharing this Library.
- 13. Referring to figures 62 and 63, select the "OTHER Tab" to add other (non-iTunes) music on the computer (or from other components connected the to same Network as the MS500). To add Folders that contain Music, click the "+" button and then select the desired Folder containing the music you want the MS500 to be able to playback. To add more folders repeat the same procedure. When all the folders have been selected, click on the "Apply Changes" button to start the process of copying the selected

music track onto the MS500. Refer to

figure 64.



Figure 61



Figure 62



Figure 63



Figure 64



Figure 65

- 14. Referring to figure 65, select the "Advanced Tab" which has "Server Information", "Advanced Server Functions" and "Options".
 - By default the McIntosh Media Sync Computer Program starts up every time the computer it is installed on is switched On and the program operates in the background. It automatically maintains synchronization of the music tracks on the MS500 that were copied from the computer(s) and the other components on the network that the MS500 is connected to.

If you do not want the McIntosh Media Sync Computer Program to automatically maintain synchronization of the music tracks, uncheck the "OP-TIONS: Start at login". This prevents the copying and/or deleting music tracks on the MS500 that are or were from the computer and the other components on the computer network. You can then perform the copying and/or deleting music tracks on the MS500 by manually starting the McIntosh Media Sync Computer Program.

Refer to figure 56.

Specifications

Note: all measurements with EQ filters and output filters bypassed.

Frequency Response

+0, -0.5dB from 20Hz to 20,000Hz +0, -3dB from 15Hz to 100,000Hz

Total Harmonic Distortion

0.005% from 20Hz to 20,000Hz

Rated Output

2.5V Unbalanced, 5V Balanced (Main) 450mV (Fixed Output)

Maximum Voltage Output

8V RMS Unbalanced, 16V RMS Balanced

Sensitivity (for rated output)

High Level, 450mV Unbalanced, 900mV Balanced Phono MM, 4.5mV Phono MC, 0.45mV

Signal To Noise Ratio (A-Weighted)

High Level - 100dB (Below rated output) MM Phono - 82dB (Below 5mV input) MC Phono - 80dB (Below 0.5mV input)

Input Impedance

High Level 22K ohms Unbalanced 44k ohms Balanced Phono 1, 2 (MM and MC) 25, 50, 100, 200, 400, 1k or 47k ohms 50 to 400pf in 50pf steps

Maximum Input Signal

High Level, 5V Unbalanced, 10V Balanced Phono MM, 80mV Phono MC, 8mV

Equalizer Controls

25Hz, 50Hz, 100Hz, 200Hz, 400Hz, 1,000Hz, 2,500Hz and 10,000Hz

Voltage Gain

High Level to Fixed Output: 0dB High Level to Main Output: 15dB Phono 1, 2 (MM and MC) Selectable 40dB, 46dB, 52dB, 58dB, or 64dB

Output Impedance

100 ohms Unbalanced 200 ohms Balanced

Headphone Load Impedance

100 ohms to 600 ohms

Digital Input Sample Rates

Optical: PCM - 16Bit, 24Bit - 44.1kHz to 192kHz Coaxial: PCM -16Bit, 24Bit - 44.1kHz to 192kHz MCT: PCM, SACD, -16Bit, 24Bit - 44.1kHz to 192kHz USB: PCM - 16Bit, 24Bit, 32Bit - 44.1kHz to 384kHz DXD - DXD352.8kHz, DXD384kHz DSD - DSD64, DSD128, DSD256, DSD512

HDMI: PCM 24bit, 44.1kHz - 192kHz DTS Dolby Digital

Power Control and Trigger Output

12VDC, 25mA

Power Requirements

Field AC Voltage conversion of the MS500 is not possible. The MS500 is factory configured for one of the following AC Voltages:

100 Volts, 50/60Hz at 75 watts

110 Volts, 50/60Hz at 75 watts

120 Volts, 50/60Hz at 75 watts

220 Volts, 50/60Hz at 75 watts

230 Volts, 50/60Hz at 75 watts

240 Volts, 50/60Hz at 75 watts

Standby Power, less than 0.5 watts

Note: Refer to the rear panel of the MS500 for the correct voltage.

Overall Dimensions

Width is 17 ½ inches (44.4cm) Height is 7 ½ inches (19.4cm) including feet Depth is 18 inches (45.72cm) including the Front Panel, Knobs and Cables

Weight

28 pounds (12.5 kg) net, 43.5 pounds (19.7 kg) in shipping carton

Shipping Carton Dimensions

Width is 27 inches (68.6cm) Height is 12 inches (30.5cm) Depth is 25 inches (63.5cm)

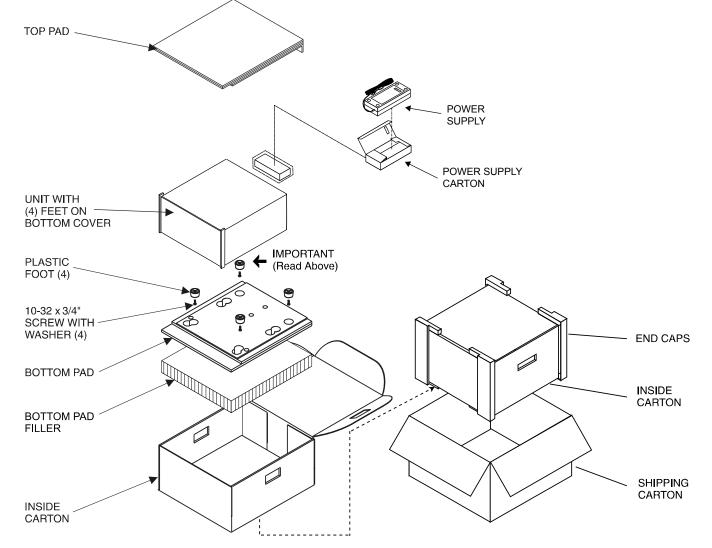
Packing Instructions

In the event it is necessary to repack the equipment for shipment, the equipment must be packed exactly as shown below. It is very important that the four plastic feet are attached to the bottom of the equipment. This will ensure the proper equipment location on the bottom pad. Failure to do this will result in shipping damage.

Use the original shipping carton and interior parts only if they are all in good serviceable condition. If a shipping carton or any of the interior part(s) are needed, please call or write Customer Service Department of McIntosh Laboratory. Refer to page 2. Please see the Part List for the correct part numbers.

Parts List

Quantity 1 4	Part Number 033838 034669	Description Shipping carton only End cap
1 1 1	033836 033725 034576 034547	Inside carton only Top pad Bottom pad Bottom filler pad
4 4 4	017937 400159 404080	Plastic foot #10-32 x 3/4" screw #10 Flat washer





MADE OF SOUND™

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The continuous improvement of its products is the policy of McIntosh Laboratory Incorporated who reserve the right to improve design without notice. The MS500 is designed to employ non-McIntosh-provided services some of which require separate customer subscriptions and some of which do not, as part of the Product's functionality. Because McIntosh cannot control the providers of such services or the services themselves, the owner of the Product therefore assumes all risks related to the use of services provided by anyone other than McIntosh itself. McIntosh cannot and does not warrant against, and shall have no liability of any kind for any of the following that are attributable to non- McIntosh providers or services: (i) interruption, discontinuance, or other unsatisfactory performance of service; (ii) reduced Product functionality that is so attributable; or (iii) any other loss or damage of any kind that is so attributable.

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