AUTONOMIC

MIRAGE MEDIA SERVER

Setup Guide for Model MMS-1e

Engineered exclusively for custom integration, the Mirage Media Server connects music lovers to their local content and the most popular streaming music services.

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Get To Know Mirage Media Server

Overview

The Mirage Media Server (MMS) product line offers both state-of-the-art, high resolution audio and the unparalleled convenience of accessing all your local audio content and streaming Internet services with a single device.

The MMS-1e will play an audio stream through all physical outputs simultaneously. using analog RCA, digital coax, HDMI, or pristine jitter-free, high definition USB audio for audiophile DAC's and high-end amplifiers that have digital USB inputs.

The MMS offers advanced playback capabilities of nearly every available audio format and will up-convert or pass through full 24-bit/96kHz sampling rates.

For virtually silent operation the MMS-1e utilizes an external power supply.

The MMS-1e has one video output that can be configured to display Now Playing information.

Things You Can Do With Your MMS

- Listen to six (MMS-5A) or three (MMS-2A) discreet audio channels in different parts of your home.
- Play back audiophile grade uncompressed, lossless 24-bit/192kHz (MMS-5A) or 24-bit/96kHz (MMS-2A) audio files through analog, digital coax or USB outputs.
- Browse music and control playback from around your home using any iOS or Android device, a web browser, or a professionally installed controlled system such as Crestron, AMX, Control4, RTI, URC, Savant, Elan, Command Fusion or Leviton.
- Access an online library of tens of thousands of albums with Rhapsody, Spotify or Slacker Premium.
- Listen to SiriusXM online without having to install an antenna.
- Create custom radio stations that play only music you love using Pandora or Slacker Radio.
- Browse thousands of AM and FM radio broadcasts around the world using TuneIn Internet Radio service.
- Synchronize with the Google Cloud Drive or Apple iCloud (iCloud requires the Mirage Media Sync and iTunes software to be installed). This synchronization allows access to your media anywhere in the world using any iOS or Android device or web browser.
- Synchronize the content of multiple Mirage Media Servers located anywhere on the planet.
- Play content from any iOS device through your home audio system using the built in Airplay receiver available on each audio output on the Mirage Media Server.

Streaming Services

The MMS provides access to several online music services through your Internet connection, such as PANDORA®, SiriusXM, Spotify, Slacker, Rhapsody® and TuneIn.

Autonomic is constantly working to develop partnerships with content service providers to bring you even more of the best Internet-delivered media through future firmware upgrades.

Local Content

To keep your library organized, your MMS comes preloaded with software to install onto your Mac or PC that will automatically keep your music files and playlists synchronized with your server. This software can be downloaded from your server onto your computers once your MMS is setup on your home network. Whenever you purchase, download or copy new content onto your computer, the Mirage Media Sync software will automatically catalog it and send it to your MMS server for on-demand playback.

You can also configure the MMS to stream content from your NAS device or other shared network storage for unlimited storage capabilities.

Cloud Synchronization Features

For the ultimate in hands-off library management, the MMS can synchronize with Google's Cloud Drive™ and Apple iCloud™ (iCloud requires the Mirage Media Sync and iTunes software to be installed). This unique feature provides you with several distinct benefits:

1. All of your content can be bidirectionally synchronized with MMS servers at multiple locations simply by entering the same credentials at each site.
2. All of your content is securely backed up offsite on Google's or Apple's servers.
3. You can access your entire library wherever life takes you, using a number of different applications available on Android and Apple iOS mobile devices or with your laptop.
4. You can configure your MMS so that any time you purchase new music either at home or on-the-go with your mobile device, it is automatically added to your home library (or other connected locations).

TuneBridge

Explore Autonomic's patent pending TuneBridge™ technology which blurs the line between all of your online services and the music you own. Create mixed queues and playlists with content from Rhapsody, Spotify and your local music collection. When you hear a song you like while listening to your music, radio, or a streaming service, TuneBridge can instantly queue up the entire album with Rhapsody or Spotify, or kick off a custom Pandora or Slacker radio station with similar music for you to discover.

Listen. Discover. Explore. TuneBridge™

Control System Integration

The Mirage Media Server is designed and engineered to work seamlessly in an automated home environment. Autonomic works closely with all of the leading control system manufacturers and their dealers to ensure the smoothest operation and access to all of the features of the MMS on control system touch panels or automation applications. Autonomic has partnered with Crestron, AMX, Control4, URC, RTI, Savant, Elan, Command Fusion, Leviton, and Key Digital to provide modules, UI templates and other tools you need for a successful integration.

Connections

Your server has several ports on the back for connecting your audio, networking, and control system gear.

- One HDMI video port for connecting to a television or other display
- One analog stereo audio outputs
- One coaxial digital audio connection
- One jitter-free audiophile USB audio output
- One Ethernet 10/100/1000 Base-T Gigabit Ethernet Local Area Network (LAN) port for broadband media services and control system interface
- Two USB ports for storage expansion and/or USB Audio

NOTE

It's important to make all necessary connections to the Mirage Media Server before turning it on for the first time.

Certain aspects of the configuration are automatically set the first time you power on the device based on the connections that are present. While these can always be changed later, your installation will go smoother if you make all the connections first.

Accessories Included With The MMS

- AC power cable and power supply
- Four removable feet (for shelf-mount installations)
- Removable mounting brackets for structured media enclosure

What You'll Need To Get Started

- A network router or switch connected to the Internet with an available Ethernet port.
- A standard (straight-through) Category 5 or Category 6 Ethernet cable.
- A computer (Windows or Mac) connected to the same network as the MMS.

Network Connection

Using a standard (straight through) Category 5 or Category 6 Ethernet cable, connect the Ethernet port on the MMS to an available port on your network router or switch.

Shelf or Enclosure Mounting

The MMS supports installation in a standard On-Q Structured Media Enclosures. For installation, attach the two supplied brackets to the back sides of the MMS with supplied screws. For shelf mount installs, attach the four supplied feet to the bottom of the chassis.

Power

The MMS front panel has a power indicator LED.

Audio Connections

Connect and/all of the audio outputs at rear of the MMS-1e to source inputs on your amplifier or receiver. The digital outputs of the MMS-1e support 24-bit/96Kz digital audio.

Video Connections

You can use the MMS video output's On-screen Display to browse content and now-playing information about your audio program to a compatible display device.

NOTE

Some HDMI receivers and switches can have compatibility issues with the MMS . If you receive an error message on screen, or if the MMS seems non-responsive, try plugging the HDMI cable directly into the display, bypassing any adaptors, switches, or AV receivers

Control System Connections

If you are using an IP based control system, the Mirage Media Server can be controlled over IP port 5004, and no further connections are necessary.

More information and control system modules for Crestron, AMX, Control4, URC, RTI, Savant, Elan, Leviton, or Command Fusion systems are available at
www.autonomic-controls.com/support_downloads.php

Set Up Your Mirage Media Server

This section provides an overview of powering up your server for the first time and using the Remote Configuration Utility to configure the device.

NOTE

You must plug everything in and connect all wires before powering up. We recommend attaching a display when you first power up the server as the IP address will be on screen.

Once you have made all the necessary connections, turn on the MMS by pressing the power button on the front of the unit once. You should see that the power LED illuminates.

Wait 2-3 minutes for your server to completely boot up the first time, or if your server is connected to a video display, wait until the Now Playing screen shows on the display.

For a wiring diagram, please refer to the Mirage Audio System Quick Start Guide on our website.

Configuring The MMS

The Mirage Media Server has a built-in web server that provides for remote configuration of the server, control system integration, and control of music playback with the Mirage player interface.

The MMS is configured at the factory to automatically obtain a network IP address from your DHCP server (usually your router).

Using any computer on the same network, open the MMS Remote Configuration Utility with your Internet browser using the default configuration address for your server model:

Using IP: **http://server-ip-address/config**

On some computers (especially Macs) you will need to add the **.local** suffix to the end of the server name (example: **http://Mirage-1.local/config**).

You can look up the IP address of the server using the DHCP client table in your router's interface if necessary.

Once you have connected to the MMS configuration page, you will see several tabs for configuring your MMS:

General Settings

The **Server Settings** tab allows you to configure the following options.

It is important to remember to press the Save button at the top of this tab after you are finished making any changes to this page. If you navigate away from this page without pressing Save, your changes will be lost.

Server Network Identification

These settings allow you to set the your servers name on the network, and change the default description.

If you change the server's name, you will have to use the new name to access the server configuration and the Mirage player interface after you save the changes.

For example, if you change your server name to "Daves-MMS", then you would use the following to access configuration in the future:

> **http://Daves-MMS/config** (or **http://Daves-MMS.local/config**)

Remote Management

The MMS allows for remote management of the server's configuration. By default, the "Allow remote management" will be checked.

If you deselect the checkbox you will disable the availability of tunneling into your server configuration remotely through the Autonomic Dealer Zone Device Manager registered to your company.

You can assign your server to your company by entering your Autonomic Dealer Zone account credentials to take ownership of the server. You can also take ownership of the server by accessing the Autonomic Dealer Zone Device Manager on the same network as the server and add it to your device list for remote management.

Setting Date And Time

These settings allow you to configure the server to automatically update its internal date and time information from a selection of geographically located NTP (Network Time Protocol) servers.

Wired Ethernet Settings

In this section, you can configure your server's network connection to automatically use a network DHCP server to obtain its IP address and network settings, or you can manually specify a static IP setting.

If you choose to use Manual Configuration be sure to enter the correct settings for IP Address, Subnet Mask, Gateway, and DNS 1 & 2. If you are unsure how to configure these settings it would be best to leave your connection set to **Autonomic (DHCP)** or contact your network administrator.

WARNING

Setting these values incorrectly can prevent the MMS from connecting to your network, and could make the server unreachable. If this happens, there is a utility available at http://www.autonomic-controls.com/support_faq_mms.php which can help you recover.

Logging

This section allows you to upload internal server logs files and, optionally, your media database if you are instructed by the Autonomic support team. These log files will be sent directly to our support staff.

Restarting Your Server

The **Utilities** section contains a link to restart your MMS. Clicking this link will make your MMS unresponsive for 2-3 minutes while it shuts down and restarts itself.

Display Settings

The Display Settings tab allows you to configure the Mirage on-screen display options. Your monitor or TV display should be plugged into the HDMI before turning on the server.

It is important to remember to press the Save button at the top of this tab after you are finished making any changes to this page. If you navigate away from this page without pressing Save, your changes will be lost.

NOTE

Some HDMI receivers and switches are not compatible with the MMS. If you receive an error message on screen, or if the MMS seems non-responsive, try plugging the HDMI cable directly into the display, bypassing any adaptors, switches, or AV receivers.

Audio Settings

The **Source Settings** tab allows you to configure audio settings and system outputs on the MMS.

It is important to remember to press the Save button at the top of this tab after you are finished making any changes to this page. If you navigate away from this page without pressing Save, your changes will be lost.

The **Audio System** section allows you to configure the MMS for RS-232 or IP connection to a Mirage multi-room amplifier.

The **Connections** section allows you to enable or disable each output, rename them, configure maximum sampling rate and bit depth (digital outputs only) and set each to variable or fixed gain output for pass-through control of volume, mute and zone power on the amp from the monitor or TV display and web interface.

Fixed vs. Variable Gain

Fixed Gain is recommended when the connected amplifier has an accessible volume control.

NOTE

Failing to set the output to fixed in this circumstance can cause contention between the MMS volume control and the amplifiers volume control and can affect sound quality.

Variable gain should be used if the MMS is connected to an amplifier that does not have a volume control, or if you wish to control the volume of the MMS directly with the Mirage web interface or mobile applications.

Disabling Unused Outputs

If you will not be using all of the available outputs, set the option to **Disabled**. This will keep those outputs from consuming system and power resources, and will remove these items from appearing in lists.

Renaming Outputs

You can rename source outputs by clicking on their name in the web browser. The new name will be used on our web control interface and mobile applications.

For control system integrations, the server will respond to commands issued using the default output names, as well as commands issued using the new names. For this reason, you should avoid renaming the outputs to any of the other default names (ie, Main, Player_A, etc.)

Bit Depth And Sample Rate Resolution

You can set the bit depth and sample rate of the digital audio outputs to values from 16-bit/44 kHz, up to 24-bit/96kHz on the MMS-1e.

You should set this value to the highest setting that your amplifier or AV receiver can support. If you're unsure of the highest supported bit depth and sample rate on your equipment, the MMS will play a sample sound in each speaker whenever you change this setting. If you hear the test tone, your amplifier supports that setting. If you do not hear a test tone, lower this setting until you can hear the test signal.

Using AirPlay

The **AirPlay Receiver** section allows you to assign all outputs on the MMS to be Airplay receivers. When enabled, the Mirage Media Server will be displayed on the AirPlay menu of any device or software that supports AirPlay (iOS devices and iTunes running on a Mac or PC).

NOTE

In a Mirage Audio System configuration, Airplay will be displayed on the AirPlay menu of any device or software that supports AirPlay (iOS devices and iTunes running on a Mac or PC) as zone names.

When the Mirage Media Server is selected, any currently playing content will be interrupted and the server will begin to wirelessly stream the content from the connected device.

This can be overridden by selecting any other content for playback through the Mirage web interface, mobile applications, or IP control.

The optional AirPlay password allows you to set a **password** that the user of the mobile device (or iTunes) will be prompted for before the MMS will accept a stream from the device. This will prevent uninvited transmissions from being broadcast to your amplifier.

Adding Digital Content and Configuring Cloud Services

The **Content** tab allows you to enter your account credentials for streaming media services and cloud services supported by the MMS.

It is important to remember to press the Save button at the top of this tab after you are finished making any changes to this page. If you navigate away from this page without pressing Save, your changes will be lost.

Mirage Media Synchronization Software

This section allows you to install a Windows or Mac client application that will automatically synchronize folders on your network, or the contents of your iTunes or Windows Media Player libraries with your Mirage Media Server.

Google Drive

Your MMS can interface with your Google Drive account to synchronize content to and from the cloud, and synchronize multiple locations.

To enable this feature, enter you Google user ID and password, and select one or both options for copying content to or from the Google Drive.The MMS will synchronize all music files with the Google Drive, even uncompressed FLAC or WAV files.

These files will still be stored in your Google Drive and will be available for multi-location synchronization.

iCloud Synchronization

Apple's iCloud service allows you to synchronize music stored on multiple computers and devices with your iCloud account. This service is supported on the MMS with our Mirage Media Sync software.

To automatically synchronize content with your iCloud, configure iCloud using iTunes on any computer that will host the Mirage Media Sync software.

NOTE

Only content that is downloaded to the Mac or PC will synchronize with the MMS.

We recommend the following settings for the most seamless, hands-off experience:

1. Turn on iTunes Match. This will allow you to synchronize content from other computers and devices, which will in turn be synchronized to the MMS via the Mirage Media Sync software.
2. Enable automatic downloads of Music purchases. This setting can be found under iTunes > Preferences > Store.

When configuring the Mirage Media Sync software, select the "Synchronize All Music" option.

Synchronizing Files And Playlists To The MMS

The Mirage Media Server comes with a utility that will automatically synchronize folders on your network, or the contents of your iTunes or Windows Media Player libraries with your Mirage Media Server.

The Computers section of the Content tab lists all of the computers on your network that have this utility installed and are contributing to your MMS library.

To install the Mirage Media Sync software, browse to this page using the computer that you want to automatically keep synchronized with your server, and click on the appropriate download link (Mac or PC).

Once installed, the Mirage Media Sync software can be configured to synchronize your MMS with iTunes, Windows Media Player (Windows PC's only), or folders on your hard drive containing music.

You can make selections to instruct the synchronization software to synchronize all music, or you can select individual playlists to be copied to your MMS.

All content synchronized with this utility is physically copied to the MMS to provide for backup and high availability. This means that once synchronized, you can still play your content on the MMS, even when your computer is off.

If you want to stop synchronizing with one of the computers, clicking the "X" next to the computer name will remove it from the list and remove all content contributed by that computer to your MMS library.

Synchronizing Multiple Mirage Media Servers

Using Google Cloud Drive, you can synchronize all of the content and playlists of multiple Mirage Media Servers located anywhere in the world.

Simply put the same Google account information into each server that you want to keep synchronized, and select both copy options (copy to, and copy from).

MMS synchronization does not require any one unit to be designated as the master. The server uses a sophisticated algorithm that accomplishes bidirectional synchronization with all locations.

If you want to create a master/slave relationship between one master and one or more slaves, you can accomplish this by enabling only the "Copy To my Google Cloud Account" option on the server that you want to act as a master, and only the "Copy From my Google Cloud Account" on the server you want to act as a slave.

Please note that you will not see or change the files synchronized to the Mirage Media Server's hard drive in the shared Music folder. These files are copied to a hidden location on the MMS in order to maintain the integrity of the synchronization. If you want to modify these files you must do so at the source, or on the Google Cloud Drive.

Streaming Music Services

Configuration of streaming music services is accomplished on the **Content** tab of the configuration utility in your web browser.

It is important to remember to press the Save button at the top of this tab after you are finished making any changes to this page. If you navigate away from this page without pressing Save, your changes will be lost.

Pandora Internet Radio

Pandora is a free service that lets you create custom radio stations based on albums or artists that you like, and will mix in other music that you have yet to discover.

Subscribing to Pandora Plus will yield additional benefits on the MMS such as higher bitrate content, and no commercials during playback.

Enter your Pandora credentials to associate your MMS with your online Pandora Internet Radio account.

When valid credentials are supplied (remember to press Save at the top of the screen), all of your online Pandora radio stations will be available for playback on your MMS, and any new stations that you create on your MMS will be saved in your online account.

The MMS supports multiple Pandora accounts, which can be created through the Mirage Media Controller App for iOS and Android, the Mirage Web Interface and most third party control interfaces. Additionally if you already have a Pandora account you can access it through the interfaces by entering your credentials when prompted.

You can create new Pandora radio stations using the Mirage Media Controller App, Mirage Web Interface, and most third party interfaces.

The Mirage Media Server TuneBridge™ technology allows you to create a new Pandora station based on any song or artist that you hear while playing back music from any streaming service or your personal local music library collection. You can access this feature in the "Actions" menu of the Mirage Web Interface and on third party control system touch panel interfaces or the TuneBridge™ icon in the iOS and Android Mirage Media Controller app.

The MMS supports multiple Pandora accounts.

More information about Pandora Internet Radio can be found at **www.Pandora.com**

Rhapsody

Rhapsody is a digital music service that allows you to listen to all the music you want on the MMS and create your own cloud-based library from more than 13 million songs available for on-demand playback.

You can browse or search music by Album, Artist, Genre, Popular Playlists, and the Rhapsody Music Guide that helps you find just the right content.

Once you've found the content you're looking for, use the Actions button on the Mirage Web Interface or control system or the TuneBridge™ icon on the Mirage Media Controller to add the Album, Artist, or Track to your virtual collection.

To configure Rhapsody with your MMS, simply provide your user ID and password in the field provided, and press the Save button at the top of the screen.

The MMS supports multiple Rhapsody accounts.

You can add additional accounts or create a new Rhapsody account through the Mirage Media Controller for iOS and Android, the Mirage Web Interface and most third party control system interfaces.

More information about Rhapsody can be found at **www.Rhapsody.com**

SiriusXM Internet Radio

Your Mirage Media Server can access your SiriusXM Radio subscription through your Internet connection eliminating the need for an external antenna or line of sight access to SiriusXM satellite transmitters.

Autonomic supports multiple SiriusXM accounts.

More information about SiriusXM can be found at **www.SiriusXM.com**

Spotify

Spotify is a music streaming service offering streaming of selected music from a range of major and independent record labels. Music can be searched by artist, album, genre, or playlists. You can even save searches as custom playlists.

Most Spotify content is streamed at 320 kbps, which is one of the highest bitrates offered by streaming music services.

To activate the Spotify service on your MMS, enter your Spotify user ID and password in the space provided, and press the Save button at the top of the page.

Spotify allows for multiple accounts that can be added through the Mirage Media Controller app for iOS and Android, the Mirage Web Interface and most third party control system interfaces.

Autonomic supports multiple Spotify accounts.

More information about Spotify can be found at **www.Spotify.com**

Slacker

Slacker gives listeners anytime, anywhere access to a world of music and entertainment. Listen for free on any device or subscribe and enjoy a commercial-free experience with deep customization, offline listening and on-demand access to millions of songs and albums. Listeners can personalize Slacker with talk, sports, news, and entertainment.

Slacker's team of music experts entertain you with hundreds of expert-programmed stations covering every imaginable genre or mood. Pick a genre station, or get specific and enter a song or artist, and you're on your way. With stations updated daily based on what's trending and real-time user feedback, Slacker is always fresh and surprising. It's like having your own rock, new country, hip hop and jazz experts on call 24/7.

Slacker supports multiple accounts that can be added or created through the Mirage Media Controller app for iOS and Android, the Mirage Web interface and most third party control interfaces.

Autonomic supports multiple Slacker accounts.

More information about Slacker can be found at **www.Slacker.com**

TuneIn

TuneIn is a free service that brings the world of AM, FM, and Internet radio stations right to your home. This service provides a directory of the world's radio stations that broadcast over the Internet. You'll likely find that many, if not all of your local AM and FM radio stations are available for crystal clear online streaming through your MMS without the need for an over the air antenna. You can also browse thousands of radio stations world-wide by genre or program name.

Entering your TuneIn credentials and pressing the Save button will allow you to associate your MMS with your online TuneIn account so that you'll have easy access to your local radio stations and stored favorites.

TuneIn allows for multiple streams. No account required.

More information about TuneIn Radio can be found at **www.TuneIn.com**

Adding Local AM/FM Radio Stations

Most of your local radio stations will be already listed in the TuneIn Local Radio list on your MMS. However, certain broadcasters have not granted the TuneIn service permission to list their streaming services in the TuneIn database.

You can manually add these stations to the local radio station listing in your MMS by using the **Additional TuneIn Stations** utility on the Content tab.To make this task easier for you, Autonomic has pre-loaded a large database of popular US radio stations that are not in the TuneIn database.

To add one of these stations, click on the **Add Station** button and begin typing in the call sign or station description in the fields provided. If that station is in our database, you'll be presented with a list of potential matches.

If your station is not in our database, you will have to obtain the URL of the streaming service and manually enter it into the Stream URL field in this dialog box. Take the time to drop us a line at **support@autonomic-controls.com** with the URL information and we will add it to our database.

NOTE

Be sure to press the Save button at the top of the screen to record your changes.

Additional Services

Gracenote

Gracenote music recognition technology and metadata helps hundreds of music fans identify, discover and connect with the songs and artists they love every day.

In the world of music, Album Covers are familiar, even iconic. They provide music fans quick recall of artist and album names, genres and the era when music was produced. Gracenote partners with every major music label, independents and leading content providers, such as Getty Images, to deliver Cover Art and professional artist photographs – enhancing the listening experience.

Autonomic partnered with Gracenote to enhance your personal music collection and online streaming services content by providing high-resolution Cover Art. The inclusion of Gracenote on the MMS automatically inserts high-definition, 1080p Cover Art for local content from your personal music collection that is missing album art and enriches the Cover Art for album art provided from online streaming services.

When the MMS replaces Cover Art a "Powered by Gracenote" message will appear over the enhanced album art in the "Now Playing" section alerting you that the Cover Art is coming from Gracenote. This message will disappear a few seconds after.

More information about Gracenote can be found at **www.Gracenote.com**

Adding Network Shared Content

Streaming Audio Content From Your Network

If you have more content than will fit on your MMS, you can stream the content from a Network Attach Storage (NAS) device or a shared folder on a computer in your network.

Keep in mind that this method has a few caveats that you should consider.

First, this content will only be available for playback when the NAS device or computer hosting the files is online. Additionally, the MMS cannot read playlists from iTunes or Windows Media Player using this method since those playlists reside inside special databases that are only accessible to the MMS when the files are transferred. The third consideration is that playback could be affected by your local network performance.

For these reasons, you should consider synchronizing the content rather than streaming it.

If your library is just too large to fit on the MMS internal hard drive, you might consider using the Mirage Media Sync software to selectively synchronize the playlists that you care most about, and then use the NAS streaming method to provide access to the rest of your content.

Copying Music And Photos Directly To Your MMS

To add Photos for use in the on-screen display's screensaver feature, copy photos directly to the MMS photo directory.

Once the MMS is connected to your home network, you should see a shared network device in Windows File Explorer (PC) or Finder (Mac).

Clicking on the MMS will reveal two folders: **Music** and **Photos**.

Valid music files supported by the MMS will be indexed and added to the library within a few minutes after the entire file operation is complete. (The MMS waits until is seems as though you are finished copying files.)

If your MMS is connected to an external display, image files copied to the Photos directory will be displayed during the photo slideshow screen saver on the MMS On-screen Display.

It is possible to manually copy music and photos directly from your computer to your MMS without using either of the two methods mentioned previously.

In the case of music, we don't recommend this approach unless you have a very specific reason for doing it. Usually, the Mirage Media Sync is a better choice for copying music as it automatically adds new content to the MMS as you add it to your library, and it helps to ensure that your MMS hard drive space is utilized in the most economical way by automatically eliminating duplicates.

Firmware Updates

The **Firmware** tab allows you to update the software in your Mirage Media Server, download utility and control software for controlling the server and synchronizing content, and tools for remote technical support.

Firmware Update

From time to time, Autonomic will release new software for the Mirage Media Server to add new services, add new features, and fix any operating issues reported.

If there is an update available, a button will appear in this section that will allow you to download and apply the update.

After you click the Update Firmware button, the Mirage Media Sever will automatically download the latest version from our web servers, install the new operating firmware, and restart. This process can take up to 10 minutes depending on the size of the update.

WARNING

Do not power off your MMS during a firmware update. Doing so could leave your server in a condition that will require factory service to restore. The MMS should become available via the Web Configuration Utility within a few minutes, at which point the update is complete and your MMS is available for normal use.

Other Software: Mirage Media Player

This section allows you to install a Windows client application to your computer that lets you browse content and control playback for any of the enabled audio outputs.

You can also run the Mirage Client application in a browser window if you prefer. This will let you control the server from Mac computers and other operating systems.

License Information

This section displays your product license information and serial number. Software serial number and hardware serial number are printed on the bottom of the unit as well.

Remote Support

If you are working with us on a support case, Autonomic may request remote access to your server through the Internet in order to check the operation of your server.

In that event, we will provide you with a security code that you can enter into this field to grant us remote access to your MMS.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.

-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-Consult the dealer or an experienced radio/TV technician for help

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation.

RF Exposure Information: This product is compliance to FCC RF Exposure requirements and refers to FCC website https://apps.fcc.gov/oetcf/eas/reports/GenericSearch.cfm search for FCC ID: 2AG93MMS-1E to gain further information.

The normal use distance is more than 20cm between the antenna and human body.