Home Theater
SYSTEM

MAESTRO M3

Home Theater Processor
User Functionality Manual

For those who consider perfection possible®

AudioControl®

22410 70th Avenue West • Mountlake Terrace, WA 98043 USA
Phone 425-775-8461 • Fax 425-778-3166
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Greetings from the rainforest

On behalf of everyone at AudioControl we wanted to congratulate you on your selection of the Maestro M3 Home Theater Processor. Whether this is your first venture into home theater or you are a seasoned audio veteran, you will truly enjoy the performance of this product.

While there are many components involved in creating a truly awesome home theater from room design, speaker placement, and ultimately system calibration, selecting the proper products is always very critical. For that reason AudioControl created the Maestro M3 to provide maximum enjoyment and flexibility which contributes to a truly awesome home theater experience.

AudioControl's passion for high quality, meticulous attention to detail and professional sound heritage shows itself in the dozens of awards we have won for our designs, products and service.

This manual is designed to help you get the most from your Maestro M3 home theater processor. Even though you're dying to plug it in and start pushing buttons, please take a little time to glance over this users guide and learn about the Maestro M3. Any component that does as much as the Maestro M3, deserves all the explanation it can get. Given the complicated nature of the Maestro M3, we also recommend you visit our website for updates to this manual. Continued technology changes happen all the time.

Enjoy the experience.

Your Friends At AudioControl

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Key Features Of the Maestro M3

While the AudioControl Maestro M3 is equipped with a large number of features and functions that are designed to maximize your theater experience, we want to draw your attention to a few that deserve extra attention. These will be the features you will want to mention to your friends, family and co-workers to impress them when they ask you about the home theater components you own.

Audiophile Quality Preamp Outputs

The Maestro M3 is designed to be a high performance theater processor which also performs as an audiophile quality pre-amplifier. The best possible components were chosen, including high speed 24 bit, 192kHz digital to analog convertors (DAC's), extremely transparent pre-amp circuitry and ultra robust drive circuits. To that extent the Maestro M3 is equipped with both unbalanced (RCA) and balanced (XLR) output connectors for optimum audio performance.

Extend Video and Audio Over CAT-5/6 Cabling

The Maestro M3 is equipped with AudioControl's Active Balanced Outputs (RJ-45 connectors) which allow a user to extend the video and audio signals via standard Category-5/6 cables. RJ-45 connectors on the rear panel allow for sending component, composite or even HDMI signals from 150 to 1000' (depending upon the format). AudioControl Active Balanced Receivers (sold separately) receive the signals and can feed them into your remote mounted display devices. These signals are also "balanced" which is a method used in professional video and audio to reject noise, hum, or distortion that can sometimes get introduced into signal paths. Because the Maestro M3 was designed with high performance video in mind, the Active Balanced Output on the Maestro M3 can accommodate high-resolution signals of 480, 720, and 1080!

HDMI Inputs and Outputs

The Maestro M3 is equipped with over 120 individual audio and video inputs and outputs, including a large number of HDMI (High-Definition Multimedia Interface) inputs and outputs. The new generation HDMI inputs will allow the Maestro M3 to interface with Blu-Ray players, satellite and cable decoding boxes plus traditional DVD players that also have HDMI connectors. HDMI is an uncompressed all digital interface standard used on many home theater products equipment. This format is used for sending audio, video, and control signals over short distances on a single cable.

The dual HDMI outputs are assignable to allow for priority switching via the

display device. Component, composite and S-Video signals can also be automatically upconverted, scaled to their maximum potential resolutions and output through the HDMI ports.

Dolby™ Volume

A constant annoyance for home theater users has been the significant differences in volume levels as you switch between channels or sources on your televisions and in your home entertainment systems. Variances in volume levels in DVD and Blu-ray Disc™, digital music files, compact discs, and broadcast entertainment programming each compound the problem, forcing you to reach for the remote controls to adjust. Dolby Volume lets you select a preferred listening level and enjoy all of your entertainment sources at the same volume level. For complete information on Dolby Volume, go to *www.dolby.com* and enter "Dolby Volume AudioControl" into the search box.

High Definition Surround Sound Formats

The Maestro M3 supports the latest surround codecs of Dolby True HD and DTS-HD Master along with traditional formats of Dolby Digital 5.0 and DTS High Resolution. A powerful 32 bit DSP processor enables the Maestro M3 to decode all current discrete surround digital formats available for 5.1, 6.1 and 7.1. In addition your Maestro M3 has the capabilities to process two channel signals using Dolby Pro Logic II, Pro Logic IIx and DTS Neo to provide multi-channel output.

Inputs For Networked Audio and USB Sources

The Maestro M3 is designed to operate with all of today's traditional source units, like CD and DVD players. Additionally it can receive audio signals over a computer network via an Ethernet input and or from a USB source. You will want to contact a professional audio integrator for more information on properly using these functions.

Extensive Automation Integration

An automation system is what really pulls most high-end home theaters together. It puts the full power of the system at your fingertips. While the Maestro M3 will operate with a number of IR remote controls (sold separately), it is equipped with an RS-232 serial port and an extensive command library to control all aspects of the Maestro M3. Using this port requires programming and automation skills, which are typically best done by professional custom installations companies. Check out the AudioControl dealer locator on our web page (www.audiocontrol.com) for list of dealers in your area.

We Want to Hear From You

Before you get too entrenched in the features of your Maestro M3, we encourage you to take a moment and visit the AudioControl web site at www.audiocontrolregistration.com and register your new Maestro M3. It allows us to keep a record of your purchase of the Maestro M3. Needless to say when you are in the pleasure business like we are, we love to hear from our customers so feel free to include some comments. You will also want to keep you own record of the serial number and put your sales receipt or invoice in a safe place. This is very important in the unlikely event that the Maestro M3 needs to be serviced or for proof of ownership if somebody takes a fancy to your theater system in the middle of the night. Insurance companies have no imagination when it comes to components like the Maestro M3 being part of the theater system. This concludes the "gentle reminder" section of this manual.

Award-Winning Quality

The Maestro M3, like all AudioControl Perfection Theater components, is backed with a comprehensive five-year parts and labor warranty. This comes from a company that has been designing and manufacturing performance audio components in the USA since 1977.

Front Panel Features

❶ **STANDBY -** The switch serves to "wake up" your Maestro M3, provided the main power switch, located on the rear panel, is turned "On".

❷ **MENU -** Pressing this button will allows access to the Set-Up Menu functions of the Maestro M3. ***It is important that you have an external display device connected to one of the rear video connectors for complete viewing of all menus during set-up.***

❸ **INPUT (Up and Down arrows) -** These buttons allow the user to select an audio and video source for playback or scroll through the OSD (On-Screen Display).

❹ **INFO -** User can select the information that appears on the display of the Maestro M3 and also is used in navigating the OSD (On-Screen Display).

❺ **MODE -** User can select between Stereo and surround modes that are available for the source unit and also is used in navigating through the OSD (On-Screen Display).

❻ **SELECT -** Used in conjunction with the Set-up Menu function, this button allows you to enter selections you have made.

❼ **MUTE -** Need to answer the phone, but still keep an eye on the TV? Just press the Mute button to turn off the sound. Press it again and the audio gracefully ramps back up to where you were so rudely interrupted.

❽ **DISPLAY -** This cool blue display allows you to see the basic functions of your Maestro M3.

❾ **DIRECT -** When using two-channel *analog* inputs, this button defeats all digital signal processing and directs the two-channel analog input from the selected source to the front outputs. Use this button when you want to do some serious quality two-channel listening.

❿ **ZONE -** Allows user to select between the Main Zone, Zone 2, and Zone 3

⓫ **MASTER VOLUME CONTROL KNOB -** This nice polished knob lets you adjust the volume in selected zones (Main, Zone 2, and Zone 3).

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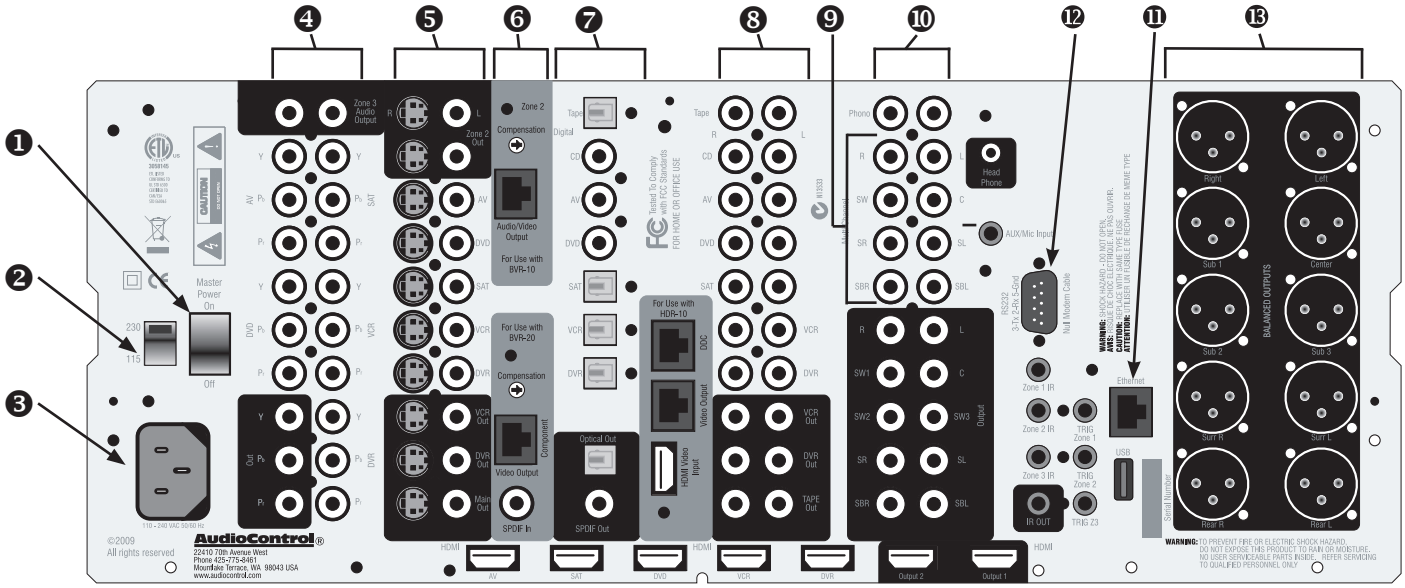


Rear Panel Features

❶ **MAIN POWER SWITCH -** The only time to turn OFF the Maestro M3 with this button is when the system will not be used for some time. Normally this button is left On and the Maestro M3 is "woken up" via the "Standby" switch on the front panel, via an optional remote control or through an automation system. When this switch is turned off, you cannot turn the Maestro M3 On or Off via any other method.

❷ **VOLTAGE SELECTION -** The Maestro M3 is designed to operate with either 110-120V volt or 220-240V line voltages. You will want to set this switch to match up with your local power voltages.

❸ **POWER CONNECTION -** All good AC power flows in here.

❹ **ZONE 3 AUDIO OUTPUTS -** These audio only outputs can feed an external amplifier while sharing the same source as Zone 2 but allow for independent volume control of the outputs.

❺ **ZONE 2 AUDIO/VIDEO OUTPUTS -** These second zone outputs enable listening and viewing a source independently of the main theater system.

❻ **ZONE 2 ACTIVE BALANCED OUTPUT -** Outputs Composite and S-Video signals for use over CAT-5 via an RJ-45 connector used in conjunction with the AudioControl BVR-10 (sold separately) Requires the composite and/or s-video outputs from the source units are connected to the appropriate Maestro M3 inputs.

❼ **DIGITAL AUDIO CONNECTIONS -** The Maestro M3 features assignable coaxial and optical digital audio inputs and outputs. While we have labeled them with the names of typical source units, these connections as assignable via the internal menu's

❽ **ANALOG AUDIO INPUTS AND OUTPUTS -** Connect the appropriate two channel stereo outputs and inputs from your source units here.

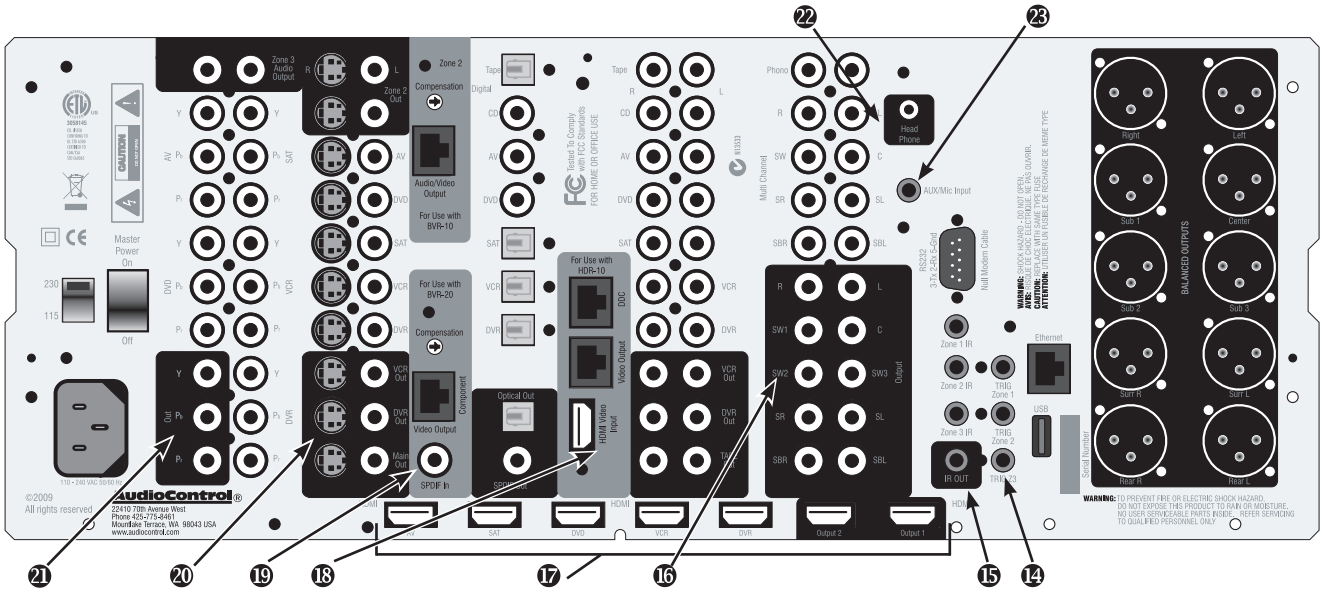
❾ **MULTI-CHANNEL DVD-A/SACD INPUTS -** Newer multi-channel Blu-Ray and DVD players can give you superb music audio quality in full surround. These players feature a surround decoder built into them and output analog multichannels. The Multi-channel inputs on the Maestro M3 bypass all digital circuitry and connect the player to the amplifiers with only a volume control in the path.

❿ **PHONO INPUTS -** This input accepts signals directly from turntables which use a moving magnet (MM) cartridge.

⓫ **NETWORK AND USB AUDIO INPUTS -** Your Maestro M3 has the ability to accept audio files via an Ethernet connection or from a USB mass storage device. This usage requires some expertise in the area of computer networks so please refer to page 33 or your AudioControl dealer for the proper applications.

⓬ **RS-232 SERIAL PORT -** This connection is used to interface the Maestro M3 with an external touch-screen or other automation system. It is also used when updating the internal Maestro M3 firmware programming.

⓭ **BALANCED AUDIO OUTPUTS -** These outputs allow you send high quality audio signals to amplifiers with balanced XLR type inputs. This type of configuration supports maximum noise rejection from the audio cables and is recommended for applications where you are sending audio signals over a long distance.



⓮ 12 VOLT TRIGGER OUTPUTS - These three outputs provide a +12 volt signal to control the power amplifiers, source units, video projector, screens and curtains in the theater. The Main Trigger output is active whenever the Maestro M3 is turned on; the Video Trigger 2 is active whenever a video source is selected.

⓯ IR (INFRARED) INPUTS AND OUTPUTS - These jacks enable use of external IR sensors and emitters for installations where it is not desirable (or practical) to use the front panel IR.

⓰ MAIN AUDIO OUTPUTS - These RCA outputs can feed external power amplifier(s). Our customers tell us that our AudioControl Pantages G3 or Savoy 7-channel amplifiers make a terrific combination. Additionally the Maestro M3 has three subwoofer outputs that can feed signals to active powered subwoofers.

⓱ HDMI INPUTS & OUTPUTS - These inputs allow the Maestro M3 to accept digital audio and video signals from source units equipped with HDMI (High Definition Multimedia Interface) outputs. Make sure your HDMI cables are properly inserted into these connectors and that there are no sharp "pulls" on the cable that may prevent your connectors from making a complete connection.

⓲ ACTIVE BALANCED OUTPUT (HDMI) - Outputs HDMI **video** signals for use over dual CAT-5/6 wires via RJ-45 connectors used in conjunction with the AudioControl HDR-10 (sold separately). Requires that the HDMI outputs from the source units be connected to the appropriate Maestro M3 inputs. ***Note: HDMI interconnect needs to connect main HDMI Output to "HDMI Video Input".***

⓳ ACTIVE BALANCED OUTPUT (COMPONENT) - Outputs Component video signals for use over CAT-5 via an RJ-45 connector used in conjunction with the AudioControl BVR-20 (sold separately). Requires the component outputs from the source units are connected to the appropriate Maestro M3 inputs.

⓴ COMPOSITE AND S-VIDEO INPUTS & OUTPUTS - These are for the video inputs and outputs from your source units. If you are planning on using the second zone video outputs, you should ALWAYS connect a Composite video input from each source.

㉑ COMPONENT VIDEO OUTPUT - When not using the HDMI outputs connect these high quality video outputs to your main video display device (i.e. Projector, CRT, LCD, etc.) You will be pleased to know that the Maestro M3 will convert Component, Composite and S-video signals to HDMI.

㉒ HEADPHONE CONNECTOR - This jack accepts an 1/8" input for using headphones with impedance ratings of 32 to 600 ohms. This jack is always active and ***will not turn off the audio*** in the main zones when a connector is inserted which allows it to be used for remote installations. The main zones can be muted via RS-232 serial commands if necessary.

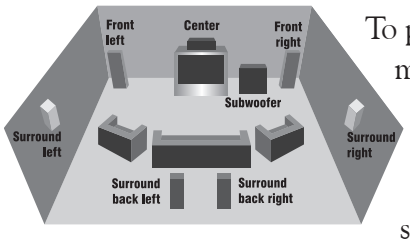
㉓ AUX INPUT - This Aux input is used in conjunction with the auto-setup microphone. Additionally it can also accept either analog or optical digital signals.

Set-up and Configuration

Unit Placement

The Maestro M3 can be placed almost anywhere in your audio equipment stack. It is good practice to ensure that the equipment location is properly ventilated and to make certain not to block the ventilation slots on any other component. Avoid placing Maestro M3 directly over large power amplifiers or any other component that generates a lot of heat. Unless they are made by AudioControl, some amplifiers can get pretty hot and have big power transformers that can induce hum into other audio components like Maestro M3.

Front LCR (Left, Center, Right) Speakers



To present the most realistic sound stage, all three of the front speakers must be tonally balanced. Ideally, these speakers should be identical models. This ensures that the sound doesn't change as it pans across the screen. Whenever possible, the three front speakers should also be placed at the same horizontal level for best imaging. Place the speakers at the seated ear level.

Side Surround Speakers

The surround speakers provide the reverberant, or ambient, sound effects in a multi-channel theater audio system. These speakers should be placed on the sidewalls approximately 36" above the seated ear height of the listeners. If you are using surround speakers, which have a dipole sound pattern, they should be mounted in-line with the main seating position. If the surrounds are direct radiator, they should be just behind the main listening seat.

Rear (Back) Surround Speakers

Some software provides extra channels that are used in 7.1 mode systems to provide extra depth in the sound field. Place these speakers approximately 36" above the seated ear height of the listeners. Additionally, they should be mounted close together on the rear wall of the theater facing the screen.

Subwoofer(s)

The subwoofer is a large speaker that provides the bottom end "kick" in the system. Depending on the size of your listening space, you may require more than one subwoofer to get the bass volume levels that you desire. Make certain you remember to include the size of all spaces that are open to the theater in determining harmony subwoofers you need.

Connection Tips

Even if you're an electronics veteran, this part may seem repetitive, but some things can never be repeated too many times.

• Turn off all components before making any connections.

• When making connections, make sure that "left goes to left" and "right goes to right." The obvious and time-honored way to assure this is to assign RED plugs to Right and WHITE/GREY/BLACK plugs to the left. Yellow is usually used for video cables or digital audio connections.

• Wherever possible, keep power cords away from signal cables (i.e., inputs from disk players, VCRs, etc.) to prevent induced hum. Bundle all power cords down one side of your equipment cabinet and all the signal cables down the other.

• Use high quality interconnect cables. We're not going to get into the debate about whether $100 per meter interconnects improve the sound and picture quality of your system. We do know from experience however that really, REALLY cheap connections can cause problems.

• Don't stand in a bucket of water when working with electricity.

Power Wiring

Like many of today's intelligent home electronics, the Maestro M3 should be plugged into an unswitched AC outlet so that it always has power. This allows the RS-232 and remote control features to work even when the Maestro M3 is in standby. We always recommend the use a high quality surge protection device to keep all of your electronics safe from the evils of spikes on power systems.

Audio Connections

INSTALL TIP ☛

Most of the sources will have two audio connections to the Maestro M3; an analog 2-channel connection plus a digital audio connection. Whenever possible, ***connect both*** types of audio signals to the Maestro M3. This will provide the digital audio signal necessary for high-quality digital surround sound along with the analog audio for tape recording plus it provides the necessary analog signals for the second and third zone audio outputs.

Don't worry if your satellite receiver has a coaxial digital output and the Maestro M3 SAT input is optical. Refer to the advanced configuration section on page 29 of this manual for more information regarding assigning a digital input to the optical or coaxial connection.

Multi-Channel Analog Audio

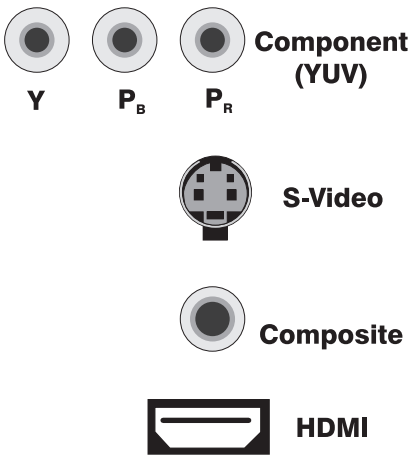
Audiophile surround recording formats such as SACD and DVD-A decode the multi-channel signals directly within the Blu-Ray or DVD player. The Maestro M3 features an eight channel direct-analog input for these sources. These inputs bypass the digital circuitry in the Maestro M3 and are routed directly to the Main Amplifier outputs via an independent volume control circuit. This ensures the highest possible audio quality for this input.

Video Connections

Choosing your video

There are four video signal connection formats ranging from Good to Best; Composite, S-Video, Component Video and HDMI digital video. Depending on the particular source unit you are using, you may have the option of more than one of these video connections. Whenever possible *connect as many as possible* as the processor in your Maestro M3 will identify the best format and route that to your main HDMI, component or composite video outputs. Because of the higher bandwidths involved with video signals, the quality of the interconnect cables you choose is important especially with HDMI. Video connections should always be made with cables specifically designed for video. Don't be tempted to grab some extra audio RCA cables lying around. Without the proper 75 ohm cabling, your picture quality will suffer from smear, ghosting or noise. It is always a good idea to make certain that the video and audio signal cables are routed away from any power wiring.

Types of video connections



Video Transcoding

INSTALL TIP ☛

To simplify your installations, the Maestro M3 provides video transcoding which routes the S-video, Composite signals, and Component video signals to the HDMI outputs of your Maestro M3. As we mentioned before it is best to connect all analogue and digital audio/video signals from your source units to your Maestro M3 to allow proper use of the Main, Secondary, and third zones.

HDMI Signals

Your Maestro M3 is equipped with five discrete HDMI inputs and dual assignable HDMI **video** outputs. All the HDMI outputs are assignable to various display devices, the video resolution on both outputs will be the same as HDMI can only have one processed video path.

Output 1 - Connect this to the display device located in your main zone or theater.

Output 2 - Connect this to the display device located in your secondary zone.

Additionally, standard HDMI signals are only meant to be sent 20 to 30 feet before signal degradation or even dropout occurs. Therefore we recommend you utilize Active Balanced RJ-45 outputs on the Maestro M3, especially when using high bandwidth signals like 1080p from Blu-Ray players or cable boxes.

Active Balanced Video Outputs – Extend Signals Over CAT-5/6

If your system design requires extending your video signals a long distance (i.e. greater than 50') than you should use the Active Balanced Outputs on your Maestro M3. These R-45 connectors use CAT-5/6 wiring to send a signal to AudioControl balanced line receivers (sold separately) and work with component, composite, S-video and even HDMI signals. This chart summarizes the different options available:

Active Balanced Output	**HDMI**	**Component**	**Composite/ S-Video**
Signal Type	HDMI	Component	Composite /S-Video
Rated Max Distance	150'	1000'	1000'
RJ-45 Cabling	Dual CAT-6	Single CAT-5	Single Cat-5
Zone	Main	Main	Zone 2
AudioControl Receiver (sold separately)	HDR-1	BVR-20	BVR-10

AudioControl's Active Balanced Technology is based on the balanced signal distribution format, which is the standard in the professional video and audio environments. Balanced transmissions inherently reject the vast majority of hum, noise, or distortion introduced along the signal path. Additionally, the Active circuitry used in AudioControl's products allows high quality video and audio strength to be maintained over longer distances than passive devices.

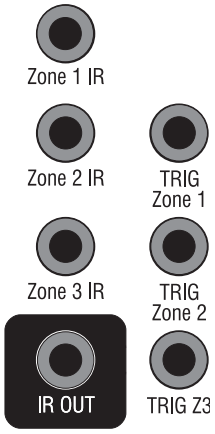
IR (Infra-red) Remote Control Connections

We have equipped the Maestro M3 with a number Infrared (IR) inputs plus an output to allow for maximum control flexibility with standard IR remote controls (sold separately). This allows you to place the infrared receiver where it can "see" the signal from the remote control when the equipment may be hidden. The IR connections are designed for "modulated" signals and wired for stereo or mono 3.5mm jacks with "Tip" being the modulated signal and "Sleeve" being ground. The signals are compatible with third-party receivers such as a Xantech No. 291-10.

Zone 1 IR - This is ideal for when the front panel of the Maestro M3 is hidden away in some dark closet or equipment rack. To prevent the possibility of receiving multiple commands, when you connect an IR receiver to this input, it will disable the front panel IR receiver.

Zone 2 IR - Allows for control of source and volume functions of Zone 2

Zone 3 IR - Allows for control of source and volume functions of Zone 3. You will want to note that Zone 3 will always share audio sources with Zone 2.



IR Output - This output is an electrical combination of Zone 1, Zone 2, and Zone 3 IR input signals and can be used as an IR repeater.

12V Trigger Connections

There are three stereo mini-jack 12 volt trigger outputs on the rear panel of the Maestro M3 which are used to remotely control such things as the power amplifier turn-on, projector power, screen automation. The jacks are designed for 3.5mm mono connectors with "Tip" being the trigger output and "Sleeve" being ground. Each jack outputs a 12V 70 mA switching signal.

Setup Menus

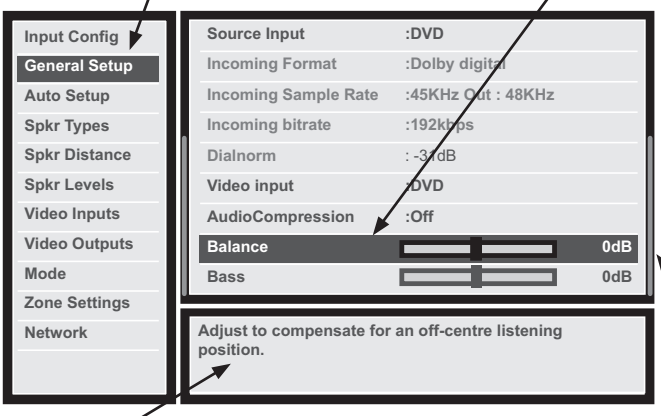
This section of the manual discusses how to navigate the set-up menus of your Maestro M3 home theater receiver. As you have probably determined by now, if you have the read the rest of this manual, the Maestro M3 is an incredibly flexible and sophisticated processor that you can literally "personalize" for use with your performance theater system. While the set-up menus incorporate a number of default setting that we determined will work well with many theater systems, you will want to take the time to go through each of these set-up screens and make the appropriate adjustments to the settings. Once you have made the changes, you will not have to change these again unless you make equipment or usage settings to your system.

To get started and view these set-up menus it is very important that you have one of the video outputs (Component, HDMI, composite, or S-Video) of your Maestro M3 connected to your video display device (i.e. projector, flat panel, TV). This is absolutely necessary to see the set-up menus. ***In the event you need to reset the output resolution and frame rate to the factory settings, it is simply a matter of pressing and holding the "SELECT" button for three seconds.***

INSTALL TIP ☛

Menu Panel - The left-hand panel lists the setup screens available for adjustment. The selected menu is highlighted with a dark green band.

Adjustment Panel - The upper right-hand panel lists the parameters you can change as a user. The selected line is highlighted with a dark green band. Lines that cannot be selected are greyed-out.



Help Screen - The lower right-hand panel gives a short help text for the feature being adjusted.

Scroll Bars - These indicate the position of the displayed screen within longer menus.

Initial Display Configurations

Your Maestro M3 has a default digital video output resolution of 480i/60 and 525-line 60Hz NTSC for analogue video as these are the most common display resolutions. Needless to say you can change these in the set-up menus if necessary. If your display device uses a different resolution, it should synchronize automatically. However should you encounter an unstable OSD (on screen display) you may need to make a resolution change.

INSTALL TIP

If at any point you need to reset the video output resolution and frame rate to the default setting, push and hold the "Select" button for 3 seconds.

Configurations For 1080p/24 Applications

The Maestro M3 supports both 1080p/24 fps (frames per second) and the more commonly used 1080p/60 fps video formats. To properly utilize the 1080p/24 format you will want to make sure that the source device (i.e. Blu-ray player) and the display device (i.e. projector or TV) are both capable of supporting this format. In the Video Output section of the Setup menus, set the Output Resolution of your Maestro M3 to 1080p (not Preferred) and make sure that the Frame Rate is set to Auto. Failure to do any of the above could result in no image.

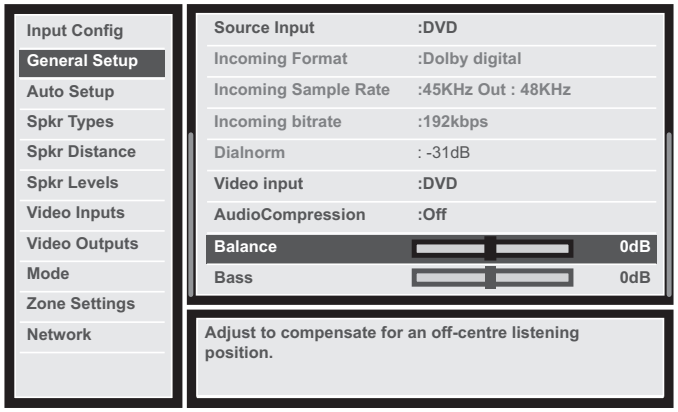
Navigating

Navigating the Set-Up Menus is a very simple process that can be done using the appropriate front panel controls on your Maestro M3 or by using an IR remote control (sold separately) that incorporates the appropriate IR codes.

1. Press the Menu button once to enter the Setup Menus. The word **"Menu"** will appear on the display of your Maestro M3 and the actual menu will appear on your display device.
2. Use the Input selection button "Input ∧" and "Input ∨" to navigate among the menu's and use the "< Info" and "Mode >" buttons to select appropriate menu screen.
3. Press the "SELECT" button to select the menu options.
4. Press the Menu button anytime to exit the Menu screens and any setting changes will be saved automatically.

Input Configuration

Each input on your Maestro M3 has individual audio and video settings that can be adjusted specifically for its use.



INPUT - Identifies the currently selected source which settings are being displayed.

NAME - Specific name/label for this input that will show on display device and OSD. Very useful when you have more than one source unit that may do similar functions (i.e. 2 two Satellite receivers could be named SAT1 and SAT2 accordingly)

LIP SYNC - Many video processors and line multipliers cause a slight delay between the sound and the video picture. Highly compressed video signals such as MPEG encoded satellite receivers and some DVD's also suffer from this problem. The Lip Sync setting delays the audio a small amount to allow the video image to catch up.

MODE - Sets the initial audio decode mode for *stereo* sources on this input

EXT. MODE - Sets the initial audio decode mode for multi-channel digital sources on this input.

TREBLE and BASS - Changes the bass and treble response for all speakers when using this input. Very useful when you have a source unit that has reduced frequency response due to the format (i.e. older VCR's)

ROOM EQ - The Auto Speaker Set-Up in the Maestro M3 utilizes a special algorithm that calculates many the major frequency resonance's that occur due to room acoustics and speaker locations and creates specific equalization filters to offset this. This menu allows you to select whether to engage the Room Equalization filter for each source. Options are "Not Calculated", "ON" or "OFF" with the default being "Off".

INPUT TRIM - Selects the maximum analog signal for this input before clipping. This setting should match the audio output of your source units with the available settings being 0.5, 1, 2, and 4 volts RMS and the default being 2 Volt. Source units with low output levels can benefit from being set to higher output settings such as .5 or 1V.

DOLBY VOLUME - Selects whether Dolby is engaged for this input with the options being "Off", "Cinema" or "Music" and the default being "Off". Dolby Volume corrects for volume inconsistencies and improves audio frequency response at lower levels. This feature is not available when using the Multi-channel audio or "Direct" modes. *For more information go to www.dolby.com/consumer/technology/dolby-volume-works.html*

DOLBY LEVELLER - The setting options are "0" (minimum) and "10" (maximum) with the default being "9". This Dolby Volume feature allows matching of quiet and loud sources of source unit inputs irregardless of recording levels of content being played by a particular source unit.

DV CALIB OFFSET - Dolby Volume provides a Calibration Offset parameter that compensates for speaker efficiencies and listening positions. If you set the Speaker Levels on the Maestro M3 properly using an SPL meter (like the AudioControl SA-3052) then you can leave this setting at 0.

SURROUND EX - When playing Dolby Digital EX encoded material, the Maestro M3 gives you the option of selecting the Surround settings, provided you have Surround Back loudspeakers connected. Setting options are "Auto DD EX", "Auto PLIIx" and "Manual".

> **Auto DD EX -** The Maestro M3 will automatically switch to Dolby Digital EX mode when a Dolby Digital EX bit stream is detected.
>
> **Auto PLIIx Movie -** The Maestro M3 will automatically switch to Pro Logic lIix Movie mode decoding when a Dolby Digital EX bit stream.
>
> **Manual -** If a Dolby Digital Ex bit stream is detected, the Maestro M3 will treat it as a normal Dolby Digital signal. The EX or Pro Logic lIix decode modes may be implemented by pressing the "MODE" button.

STEREO MODE - If you are using an external subwoofer, and are listening to stereo (two channel) sources, either digital or analog system, you can select to configure how the subwoofer receives it's bass information. The "Stereo Mode" functions are bypassed when using an analog source and you have selected the "Stereo Direct" mode.

> ***As Speaker Types -*** Your normal speaker configuration (as selected in the "Spkr Types" menu) determines your subwoofer output.
>
> ***Left/Right -*** Full frequency audio will be sent to your front left and right speakers with no information going to the subwoofer.

Left/Right+Sub **-** Full frequency audio will be sent to your front left and right speakers plus bass information is directed to your subwoofer effectively duplicating the lower frequencies

Sat+Sub **-** Full frequency audio signals are sent to your front left and right speakers with the bass information being directed to only your subwoofer. Your front speakers will only reproduce the upper frequencies.

SUB STEREO - If you have selected the "Left/Right+Sub" or "Sat+Sub" setting in the "Stereo Mode" menu, then this setting adjusts the level of the subwoofer when you are using a two-channel source.

BRIGHTNESS - This video setting adjusts the brightness for this input, providing you are using a video equipped source unit.

CONTRAST - This video setting adjusts the contrast for this input.

COLOR - This video setting adjusts the color saturation for this input.

PICTURE MODE - The setting options are Video, Film, or Auto with the default being Auto. The video processor in the Maestro M3 normally automatically detects the original source type and properly sets the Video mode or Film mode processing. Occasionally some source material is unable to be interpreted properly by the processor, which may require a manual adjustment.

EDGE ENHANCEMENT - This video feature sharpens the picture.

MOSQUITO N.R. - This video feature removes haziness that sometimes appears around objects in a picture.

NOISE REDUCTION - This video feature removes random video noise that may appear on the picture from a source unit.

BLOCK N.R. - This video feature removes block artifacts in overly compressed digital video signals

COMPONENT MODE - This mode allows you to configure the component video input of your source unit to properly match up with your display device. Setting options are "Normal", "RGsB" and "RG+Sync".

Normal: Configures output for standard Component (YPbPr) analog video.

RGsB: Configures for RGB analogue video with video "sync on green"

RGB+Sync: Configures for RBG analogue video with sync on the composite input for the selected source.

INSTALL TIP ☛

VIDEO SOURCE - Selects whether the video signal for this source is detected automatically or locked to a particular signal type. Setting options are "Auto", "HDMI", "Component", "S-Video" or "Composite" with "Auto" being the default. ***Note that the "Auto" setting will increase the switching time, as it reviews all format options, therefore, it is recommended you select the specific source format (i.e. HDMI) whenever possible.***

AUDIO SOURCE - Allows you to select how the Maestro M3 receives audio signals for this source. Settings options are "Auto", "HDMI", "Digital", or "Analogue".

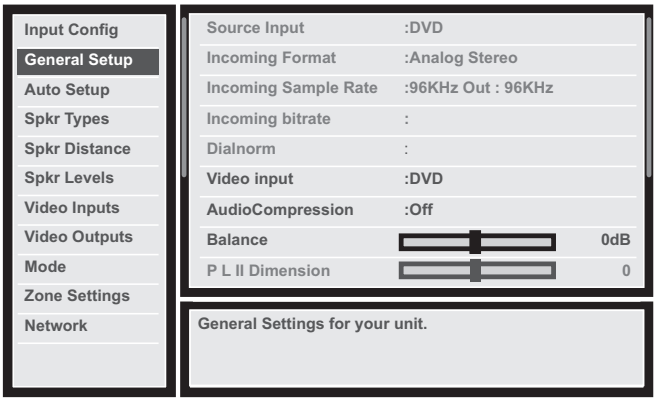
General Setup

These menu screens display general information and system control ***(Information Only)***

Source Input: Displays the currently active audio source input.

Incoming Format: Displays format of digital audio stream

Incoming Sample Rate: Displays incoming sample rate of digital audio stream, if present.



Incoming Bit Rate: Displays bit rate of digital audio stream, if present.

Dialnorm: When a Dolby Digital audio stream is connected to this input this is the Dialogue Normalization setting requested.

Video Input: The audio and video inputs on the Maestro M3 generally follow the source selected. This setting allows you to temporarily override and change the video settings so you can utilize a different video source. Setting resets itself when source is change.

Audio Compression: Compressing the dynamic bandwidth of the audio can be a good thing, especially for those late night action movie festivals. Compression increases the volume of quiet sections and and reduces the volume of the louder sounds. These 3 options for this setting only apply to some Dolby Digital or DTS soundtracks. As part of the general set up, this setting applies to all inputs with digital audio streams that support this function and is recalled each time the unit is powered up.

Off: Audio compression is not applied (default)
On: Whenever a soundtrack is received that supports this function the Audio Compression is applied
On/Auto: Same as On (above), with the exception of Dolby TrueHD soundtracks which supports an additional Auto on/off setting

Balance: Adjusts the left/right balance of the front outputs.

Dolby Prologic II Music Mode Settings

These setting apply to all two-channel inputs when PLII or PLIIx Music mode is selected.

Dimension - Adjusts the depth of the front/rear sound stage. For normal listening this should be set to +3. Setting options are –3 to +3 with default setting being "0".

Center Width - Determines how strongly the Pro Logic II decoder processing creates the center channel image. Normally this signal is fed only to the center channel speaker output, but if the center speaker is set to "None" in the speaker setup, a phantom center channel is created using the front left and right channels. Normally this setting is left at +3.

Panorama - When the Panorama Mode is enabled, the front center image is extended to include the rear surround speakers. This provides a more enveloping wrap-around effect.

Digital Output Frequency - Sets the sampling frequency of the audio Analogue-to-Digital converter. Settings options are 44.1/ 48 /96 kHz. Default is 96 kHz

Volume Adjustment - Allows you to set the step size for the volume control. Options are "Normal" (1 dB steps) or "Fine (.5 dB steps).

INSTALL TIP ☛ **Maximum Volume -** Limits the highest volume that the Maestro M3 will play. This is useful if you have speakers or amplifiers with limited power handling abilities.

Max On Volume - This is the highest volume that the Maestro M3 will play when it is first switched on first turned. This prevents the Maestro M3 from being turned on at shock volume levels from the last time you were watching a good movie.

Auto Setup

Your Maestro M3 is equipped with an Auto Setup feature that assists in setting all of the essential speaker settings for your system, including which speakers are present, types of speakers, crossover settings for the subwoofer, sound level and distance compensation. It will also calculate basic room equalization filters to offset frequency resonances caused by acoustics and speaker placement. While there is no substitution for proper acoustical treatments, speaker placement and theater calibration, the Auto Setup Mode is useful for maximizing the acoustical performance of many theaters.

Microphone Positioning

The calibration microphone that comes with Maestro M3 is a designed to be placed in the center of your theater in the main listening position preferably at the same height as your head. Connect the microphone jack to the "Aux" input on the rear of your Maestro M3.

INSTALL TIP ☛ Make sure you minimize any background sounds in the theater by turning off any fans or noisy air conditioning systems, and close all doors and windows as outside sounds will negatively affect your measurement. Additionally if the microphone is positioned too close to the speakers this will result in a signal Clipping error.

Run Auto Setup - In this menu, press the "Select" button on the front panel and the Maestro M3 will begin generating test tones out of each channel, a process that takes about two minutes. During this process the AVR-1 identifies which speakers are being utilized in the system and what the recommend system adjustments are, based on the measurements.

Accept Setup - Once the Auto Setup has completed it's testing, you can select to accept the settings or reject them. Options are "No" or "Yes".

Auto Setup Progress - Displays a status summary of the Auto Setup function and identifies any measurement errors during the testing process. Options are "Calculating EQ" or "Completed Error".

After running the test, this screen will display any system errors for each speaker

Not Present - Speaker was not detected – check connections if necessary.

Clipped - If you have highly efficient speakers or the microphone is measuring over reflective sounds, this could result in a distorted or "Clipped" measurments. Try repositioning the microphone and running the test again.

Mic Too Close - This is generally a result of the microphone being too close to the speakers. Try repositioning the microphone and running the Auto Setup test again.

Crossover Frequency - Based on the speaker measurements your Maestro M3 processes, it will recommend a crossover frequency between your subwoofers and your main speakers.

Speaker Types

This series of menus allows you to select the types of speakers that you will be connecting to your Maestro M3. Please note that if you set all speakers to small then you must indicate in the menus below that a subwoofer is present in the system. If not your speakers will be selected to Large. For the purposes of setting the Maestro M3.

"Large" speaker is one that is capable of reproducing a full range (20-20KHZ) audio signal. Use this setting when ***not*** using a subwoofer.

"Small" speaker is one that is not designed to reproduce deep bass frequencies and is generally used *with* a subwoofer (i.e. typical Satellite speakers that typically can't play below 80 Hz).

"None" If you do not have a speaker connected to an output (i.e. No Subwoofer or Back Speakers) then set that speaker size to "None".

"Subwoofer" Selects whether a subwoofer is present in your system.

Crossover Frequency - This controls the frequency at which bass is redirected from speaker channels set to "Small" and sent to the Subwoofer outputs. This frequency is adjustable from 40 Hz to 150 Hz.

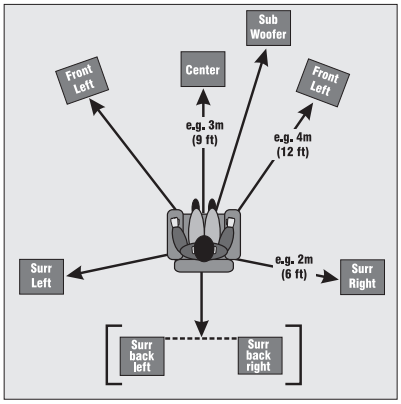
MCH Sub Levels - This adjusts the level of the subwoofer channels when using an externally decoded multi-channel source (DVD-A, SACD, HDMI, etc.) Most DVD players require a +10db compensation on the subwoofer channel to maintain the correct balance levels with the main channels. Setting options are "+10dB comp" or No comp"

USING CHANNELS 6 + 7 FOR - If your main speaker system consists of only 5 main speakers and no Surround Back Left & Right speakers, you can redirect signals from the unused amplifier channels to the front speakers or for Zone 2.

Speaker Distance

The Speaker Distance settings help the sound from each speaker arrive at the listening seat at the same time. This provides a much more believable and immersive sound environment. Precise delay settings should be done by a trained professional with audio test equipment such as the AudioControl Iasys HT to measure the precise sound delay. You can get a rough delay setting using Auto Set-up. Measure the distance from the center of a speaker to the seated ear position of the main listening seat. Write each of these distances down and enter them into the Maestro M3 or use auto setup.

Speaker Levels



It is critical to properly match the levels from each speaker to achieve a correct sound stage. The realism is totally lost if the footprints of a person walking across the screen change in volume as they move from left to center to right. We strongly recommend using a test analyzer such as our Iasys HT for this calibration. The levels are nearly impossible to judge by ear alone. Though not as accurate as using the Iasys HT, you can use a sound level meter for this adjustment.

With the internal test noise generator of the Maestro M3, adjust each speaker for a sound pressure level (SPL) of 75 dB using a "slow" response time on the SPL meter placed at the main listening position at ear height.

Video Inputs

Settings to optionally assign a video source to each of the normal "audio only" inputs. The default for each of these settings is "None". This is a great way to listen to the ball game over the Internet Radio and watch it over your normal video display device, though timing might be a little off.

Video Outputs

The Maestro M3 is not only a great sounding home theater processor but it is also a very powerful video processor. To that extent it has a number of video settings that need to be selected carefully to optimize your video performance.

Zone 1 On Screen Display (OSD): While the set-up menus will always show on your display device, you have the option of selecting whether your Main Zone general settings (volume, subwoofer level, etc.) show up on the bottom of the screen as an On Screen Display (OSD). The options are "On" or "Off".

Analog Output: Controls the output settings for the Composite and S-Video analogue video outputs. You will want to note that these outputs support display resolutions of 480i or 576i signals.

Analog Frame Rate: Controls the output frame rate for all Main Zone analog video outputs.

Display Type: Options are 4:3 standard or 16:9 widescreen.

Output Switching: The HDMI outputs of the Maestro M3 are completely assignable to match up with switching applications of the theater system.

Auto-Priority Out 1/Out 2: This input senses which display device is operating and gives priority to the selected HDMI output. If both HDMI outputs are being used, priority is given to the device selected in this menu.

Output 1 or Output 2: Enables only selected output to operate.

Output 1 & 2: This setting allows both HDMI outputs to operate simultaneously. In this mode the maximum resolution for both displays will be limited to the resolution of the lowest display device.

Output 1 Resolution: Selects the output resolution for HDMI Output #1 with the options being a list of the available display devices or "Preferred". ***In the Preferred mode, this output matches the highest preferred resolution of the display device. This setting is only effective if Output 1 is the only HDMI output being utilized.***

INSTALL TIP ☛

Output 1 Frame Rate: Selects the output frame rate for HDMI Output #1 with the available options being displayed in the drop down menu's. Frame rates that are not supported by the display device cannot be selected.

Lipsync 1 (Information Only): When this feature is supported by the display device, this setting displays how much lip sync is applied to HDMI Output 1.

Output 2 Resolution: Selects the output resolution for HDMI Output #2 with the options being available display devices or "Preferred". ***In the Preferred mode, this output reflects the highest preferred resolution of the display device. This setting is only effective if Output 2 is the only active HDMI output.***

Output 2 Frame Rate: Selects the output frame rate for HDMI Output #2 with the available options being displayed in the drop down menu's. Frame rates that are not supported by the display device cannot be selected.

Lipsync 2 (Information Only): When this feature is supported by the display device, this setting displays how much lip sync is applied to HDMI Output 2.

Output 1 & 2 Resolution: Selects the output resolution when both HDMI Outputs are being used with the options being available display devices or Best. In the Preferred mode, this output reflects the highest preferred resolution of the display device.

Output 1 & 2 Frame Rate: This setting controls the frame rate output of HDMI Output 1 & 2 with this setting only being active if OUT 1 & 2 is the only selected HDMI output.

Lipsync 1 & 2 (Information Only): When this feature is supported by the display device, this setting displays how much lip sync is applied to HDMI Output 1 & 2.

Surround Modes

This screen allows the user to select the specific decode and downmix options that will be available to the listener in Stereo and Multi-channel applications. The options for each format are "Yes" or "No" and are accessible by touching the "Mode" button on the front panel of your Maestro M3.

Formats Available For Stereo Sources: The following formats are available when using media that contains either digital or analog stereo signals (Dolby 2.0, digital PCM stereo, DTS 2.0 etc.)

Dolby Pro Logic - Original Dolby surround format that produces five-channels of output from two-channel stereo material. Best used when material is encoded in Dolby Pro Logic, otherwise it is recommended that you use Dolby Pro Logic II.

Dolby Pro Logic II - Advanced Dolby decoding process that produces five-channels of output when using two-channel stereo material. This format also offers three different modes; Movie, Music, Matrix, and Game which provide various enhancements depending upon the source materials.

Dolby Pro Logic IIx - This Dolby format produces seven-channels of output when using two-channel stereo material and allows you to take better advantage of systems that utilize a 7.1 speaker system. Like Dolby Pro Logic II, this format also offers three different modes; Movie, Music, and Game for additional enhancement.

For more detailed information on the various Dolby and DTS surround formats you can visit www.dolby.com or www.dts.com.

DTS Neo: 6 - This DTS based format outputs six channels of audio based when using two-channel stereo material. This format also offers two different modes, Cinema and Music which provide various enhancements depending upon the source materials.

Zone Settings

This menu allows you select the audio and video control and volume settings for Zone 2 and Zone 3. You will want to note that the Zone 2 and Zone 3 always share the same audio source.

Zone 2/3 Input - Selects the analog audio to be used for Zone 2 and Zone 3.

Zone 2 Video Output - Selects the analog video to be used for Zone 2.

Zone 2 Status - Displays current status at Zone 2 with options being "Standby" or "On"

Zone 2 Volume - Displays current volume level in Zone 2.

Zone 2 Maximum Volume - Selects the maximum volume setting for Zone 2.

Zone 2 Fixed Volume - Allows the Zone 2 volume to be fixed at the current volume level.

Zone 2 Max On Volume - Selects the maximum volume level for Zone 2 when the Maestro M3 is powered on or comes out of stand-by mode.

Zone 3 Status - Displays current status at Zone 3 with options being "Standby" or "On"

Zone 3 Volume - Displays current volume level in Zone 3.

Zone 3 Maximum Volume - Selects the maximum volume setting for Zone 3.

Zone 3 Fixed Volume - Allows the Zone 3 volume to be fixed at the current volume level.

Zone 3 Max On Volume - Selects the maximum volume level for Zone 3 when the Maestro M3 is powered on or comes out of stand-by mode.

Standby - Selects what parts of the Maestro M3 turn-on and off when a Standby command is received via the Zone 2 IR port. Options are "Local Only" or "All Off".

Network Settings

Your Maestro M3 has the ability of playing Internet radio stations as well as music stored on a network storage device like a PC or USB flash drive. Typically the computer network may use DHCP to automatically make the necessary networks settings although the Maestro M3 can also be configured manually when using a static IP address.

USE DHCP Use this setting if your network uses DHCP for assigning an IP address.

MAC Address (Information Only) - Displays the unique network card address of your Maestro M3.

IP Address - When not using DHCP, use this setting to assign a unique IP address to your Maestro M3.

Subnet Mask - When not using DHCP, use this setting to assign the subnet mask to your Maestro M3.

Gateway - When not using DHCP, use this setting to enter the IP address of the router connected to your Maestro M3.

Primary DNS - When not using DHCP, use this setting to enter the Primary DNS IP address of your Internet service provider.

Alternate DNS - When not using DHCP, use this setting to enter the Secondary DNS IP address of your Internet service provider.

Use Proxy - Use this setting to select if you are connecting to the Internet via a proxy server. Options are "Yes" or "No".

Proxy Address - When using a Proxy Server, use this setting to enter its IP address.

Proxy Port - When using a Proxy Server, use this setting to enter the port number to which the proxy responds.

Playing Audio Files via Network Audio or USB

The network audio client on the Maestro M3 is capable of supporting the following file formats:

- MP3
- WMA (Windows Media Audio)
- WAV
- FLAC (Free Lossless Audio CODEC)
- MPEG-4 AAC (iTunes with DRM10 support)
- Ogg Vorbis

Network devices must also be running a universal plug and play (uPnP) service such as Windows Media Player. This feature is standard with Windows Vista or it can be downloaded free of charge from www.microsoft.com. While each device may operate differently, here are some basic commands to follow:

1) With the Maestro M3 in "Standby", make all of the Ethernet network and/or USB connections and then take the unit out of "Standby".

2) Using the front panel source selection controls, select Network Audio "NET" as a source. A "Home Page" page will appear on your display device and show all available storage devices.

3) Navigate through these using the arrow keys on the front panel of your Maestro M3 or using an optional infrared (IR) remote control. Folders displaying a musical note symbol (♪) have playable files in them.

4) Select the file/track you wish to play and press the OK or ">" key. Pressing the "Select" button will also serve to pause the track. Pressing and holding "Select" button for two seconds will stop playback.

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Internet Radio Stations

Once you have established an Internet connection for your Maestro M3, you can manually enter the URL of any Internet radio station. You can use the vTuner service to easily browse through Internet radio stations. You will want to go to *www.audiocontrolradio.com* to set up this service for use in your system.

Review the "Network" set-up menu of your Maestro M3 and locate the unique MAC (Media Access Controller) address of your unit, as it will be required to setup up your service. Once activated you can visit various stations and podcasts and then set up groups of favorite stations. These will show up as favorites on your display device when you next connect to the Internet.

Maestro M3 Automation Integration

Automation Integration

Part of the joy of a great home theater is that you don't have a tray of remote controls staring at you whenever you want to watch a movie. Hidden away behind the scenes is a workhorse that takes care of the mundane tasks of turning on all the components, lowering the curtains, dimming the lights, popping the corn, etc. This faithful servant can take the form of a simple learning remote control or a system as capable as a whole house automation system with touch screens. There are a wide variety of theater controllers available.

There are two means of remotely controlling the Maestro M3: With Infrared (IR) Remote control and with the RS-232 Serial Port. The Maestro M3 RS-232 command set also takes advantage of the extensive discrete IR command library with the IR simulation command. This adds a great deal of flexibility to system design, general functionality and personal customization. It is possible to use both hand held remotes and control panels in the same installation depending on your needs.

RS-232 Serial Control

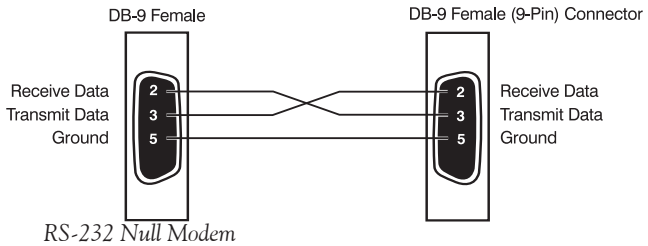
You must set the external RS-232 control system serial port of your control system to match the data communication speed and format of the Maestro M3. If these settings are incorrect, the Maestro M3 will not respond to the commands.

Maestro M3 communication parameters:

Baud Rate:	38,400
Start Bit:	1
Data Bits:	8
Stop Bit:	1
Parity:	None
Flow Control:	None

Cable Wiring

The cable wiring to connect the Maestro M3 to your control system will depend on the RS-232 output connection on the controller. Make certain that you wire the Transmit Data output on the serial controller to the Receive Data on the Maestro M3 and vice versa on the Receive Data line on the controller system. Connect the signal grounds on the control system and the Maestro M3 together. The RS-232 connection on the Maestro M3 is a DB-9 Male wired as follows:



RS-232 Null Modem Arrangement

Pin 2 Receive Data (RXD)

Pin 3 Transmit Date (TXD)

Pin 5 Ground

To connect the Maestro M3 to a standard PC serial com port; wire the cable in a 'null modem' arrangement using the appropriate serial cable.

Command Structure - Issuing

The RS-232 serial control structure of the Maestro M3 is a string of hexadecimal values with a minimum of six bytes. When issuing a command, the structure of the string is as follows: Start Transmission, Zone Number, Command Code, Data Length, Data and End Transmission. We will use an abbreviated form for easy reference in the following format:

<ST><ZN><CC><DL><Data><ETR>

Parameter	Command	Description
START	*0x21*	Begins transmission to Maestro M3
ZONE NUMBER	*0x01*	Zone 1
	0x02	Zone 2
	0x03	Zone 3
COMMAND CODE	*See code list*	The code of the command
DATA LENGTH	*0x01, 0x02 etc…*	Number of data units to follow
DATA	*See code index*	The parameters for the command
ETR	*0x0D*	End transmission

As an example:
To change the Maestro M3 video source in Zone 1 to SAT:
0x21 0x01 0x0A 0x01 0x01 0x0D

Command Structure - Receiving

Command processing begins when the first 0x0D (carriage return) is received. The Maestro M3 will respond, either by making the change specified with a status update answer code or by replying with an error answer code, within 3 seconds. More commands, however, may be sent before the Maestro M3 responds to the first command. When a command is received, the Maestro M3 echoes the command back in the following format:

<ST><ZN><CC><AC><DL><Data><ETR>

Parameter	Command	Description
START	*0x21*	Begins transmission to Maestro M3
ZONE NUMBER	*0x01*	Zone 1
	0x02	Zone 2
	0x03	Zone 3
COMMAND CODE	*See code list*	The code of the command
ANSWER CODE	*0x00*	No problems – status updated
	0x82	Incorrect Zone
	0x83	Incorrect Command
	0x84	Incorrect Parameter
	0x85	Invalid Command in current state
	0x86	Data length is incorrect
DATA LENGTH	*0x01, 0x02 etc…*	Number of data units to follow
DATA	*See code list*	The parameters for the response, limited to 255
ETR	*0x0D*	End transmission

As an example:

Answer code for source change in Zone 1 to DVD: 0x21 0x01 0x0A 0x00 0x01 0x00 0x0D

Simulating the RC-5 IR command via RS-232

A key feature in the Maestro M3 is the ability to simulate RC5 format IR commands via serial commands. The IR simulation command will contain 7 bytes as there will be 2 <Data> bytes for the RC-5 command. The actual command <CC> is 0x08 with the 2 <Data> bytes being the IR command values. The 2 data bytes are the system code then the command code, both these codes are in decimal format. Depending on your software or remote control device, a conversion of these codes to the appropriate format may be needed.

Changes in state from different inputs

While the Maestro M3 is controlled by a serial command, its state may be changed by other inputs such as the front panel or through IR. Such changes in state will yield a response with an answer code from the Maestro M3. In order to determine the command code, you may use the response to get the code for the desired function if you can't find the listing for it in the table below.

Serial and IR Code Tables

The following pages contain an extensive list of serial and IR codes for automation use of your Maestro M3. You can also download this information from the AudioControl web site at www.audiocontrol.com. Click on "Support" and then "Automation Support". You may also want to contact the manufacturers of your control systems and remotes as we proactively provide automation codes to many of them.

Automation command and response

Stand-by status 0x00

Request current power state of particular Zone

Command		Response	
<ST>	0x21	<ST>	0x21
<ZN>	Zone number	<ZN>	Zone number
<CC>	0x00	<CC>	0x00
<DL>	0x01	<AC>	Answer code
<DATA>	0xF0	<DL>	0x01
<ETR>	0x0D	<DATA>	0x01 Zone on
			0x00 Zone in stand-by
		<ETR>	0x0D

Request current source 0x1D

Command		Response		
<ST>	0x21	<ST>	0x21	
<ZN>	Zone number	<ZN>	Zone number	
<CC>	0x1D	<CC>	0x1D	
<DL>	0x01	<AC>	Answer code	
<DATA>	0xF0	<DL>	0x01	
<ETR>	0x0D	<DATA>	Current source in the specified zone	
			0x00	Follow Zone 1
			0x01	CD
			0x02	DVD
			0x03	AV
			0x04	SAT
			0x05	DVR
			0x06	VCR
			0x07	TAPE
			0x08	AUX
			0x09	PHONO (Maestro M3)
			0x0A	AM
			0x0B	FM
			0x0C	Sirius
			0x0D	Multi-Channel (MCH)
			0x0E	NET
		<ETR>	0x0D	

Status of display brightness 0x01

Request display brightness state

Command		Response	
<ST>	0x21	<ST>	0x21
<ZN>	Zone number	<ZN>	Zone number
<CC>	0x01	<CC>	0x01
<DL>	0x01	<AC>	Answer code
<DATA>	0xF0	<DL>	0x01
<ETR>	0x0D	<DATA>	0x03 Display brightness set to High
			0x02 Display brightness set to Medium
			0x01 Display brightness set to Low
			0x00 Display is off
		<ETR>	0x0D

Headphone connection status 0x02

Command		Response	
<ST>	0x21	<ST>	0x21
<ZN>	Zone number	<ZN>	Zone number
<CC>	0x02	<CC>	0x02
<DL>	0x01	<AC>	Answer code
<DATA>	0xF0	<DL>	0x01
<ETR>	0x0D	<DATA>	0x01 Headphones are connected
			0x00 Headphones aren't connected
		<ETR>	0x0D

Simulate IR command 0x08

Command		Response	
<ST>	0x21	<ST>	0x21
<ZN>	Zone number	<ZN>	Zone number
<CC>	0x08	<CC>	0x08
<DL>	0x02	<AC>	Answer code
<DATA1>	RC5 System code	<DL>	0x02
<DATA2>	RC5 Command code	<DATA1>	RC5 System code
<ETR>	0x0D	<DATA2>	RC5 Command code
		<ETR>	0x0D

Video selection 0x0A

Changes video input, audio remains

Command		Response	
<ST>	0x21	<ST>	0x21
<ZN>	Zone number	<ZN>	Zone number
<CC>	0x0A	<CC>	0x0A
<DL>	0x01	<AC>	Answer code
<DATA>	0x00 - DVD	<DL>	0x01
	0x01 - SAT	<DATA>	Current video source is returned
	0x02 - AV	<ETR>	0x0D
	0x03 - DVR		
	0x04 - VCR		
	0xF0 - Request current input		
<ETR>	0x0D		

Select current source audio input 0x0B

Command		Response	
<ST>	0x21	<ST>	0x21
<ZN>	Zone number	<ZN>	Zone number
<CC>	0x0B	<CC>	0x0B
<DL>	0x01	<AC>	Answer code
<DATA>	0x00 - Use analog	<DL>	0x02
	0x01 - Use digital audio	<DATA>	0x00 - Analog audio is in use
	0x02 - Use HDMI		0x01 - Digital audio is in use
	0xF0 - Request current source audio type	<ETR>	0x0D
<ETR>	0x0D		

Set/Request Video Input type (valid only on Zone 1) 0x0C

Command		Response	
<ST>	0x21	<ST>	0x21
<ZN>	0x01	<ZN>	Zone number
<CC>	0x0C	<CC>	0x0C
<DL>	0x01	<AC>	Answer code
<DATA>	0x00 - Auto	<DL>	0x01
	0x01 - HDMI	<DATA>	0x00 - Auto
	0x02 - Component		0x01 - HDMI
	0x03 - S-video		0x02 - Component
	0x04 - Composite		0x03 - S-video
	0xF0 - Request the video type of current source		0x04 - Composite
<ETR>	0x0D	<ETR>	0x0D

Set/ Request Volume status 0x0D

*Returns volume even if Zone is in Mute, use Mute Status request (0x0E) to find state of Mute

**Format for the this setting differs depending on the Zone you are controlling. Zone 1 is set in .5db increments while Zone 2&3 are set in 1db increments . To set the Volume to 40 in all zones, data for Zone 1 would be 0x50 (decimal 80) while data for Zone 2 and 3 would be 0x28 (decimal 40)

Command		Response	
<ST>	0x21	<ST>	0x21
<ZN>	Zone Number	<ZN>	Zone number
<CC>	0x0D	<CC>	0x0D
<DL>	0x01	<AC>	Answer code
<DATA>	0xF0 - request current volume	<DL>	0x02
	0x00 through 0xC6 - set the volume	<DATA1>	0x00 (0) - 0x63 (99)
<ETR>	0x0D	<DATA2>	0x00 (0)
			0x05 (.5) Zone 1 only
		<ETR>	0x0D

Mute status 0x0E

Command		Response	
<ST>	0x21	<ST>	0x21
<ZN>	Zone Number	<ZN>	Zone number
<CC>	0x0E	<CC>	0x0E
<DL>	0x01	<AC>	Answer code
<DATA>	0xF0	<DL>	0x01
<ETR>	0x0D	<DATA1>	0x00 - Zone is muted
			0x01 - Zone is not muted
		<ETR>	0x0D

Direct mode status 0x0F

Command		Response	
<ST>	0x21	<ST>	0x21
<ZN>	Zone Number	<ZN>	Zone number
<CC>	0x0F	<CC>	0x0F
<DL>	0x01	<AC>	Answer code
<DATA>	0xF0	<DL>	0x01
<ETR>	0x0D	<DATA>	0x00 - Direct mode is off
			0x01 - Direct mode is on
		<ETR>	0x0D

Decode mode status for 2ch content 0x10

Command		Response	
<ST>	0x21	<ST>	0x21
<ZN>	Zone Number	<ZN>	Zone number
<CC>	0x10	<CC>	0x0F
<DL>	0x01	<AC>	Answer code
<DATA>	0xF0	<DL>	0x01
<ETR>	0x0D	<DATA>	0x00 - Mono
			0x01 - Stereo
			0x02 - ProLogic II / x Movie
			0x03 - ProLogic II / x Music
			0x04 - ProLogic II Matrix
			0x05 - ProLogic II Game
			0x06 - Dolby ProLogic Emulation
			0x07 - Neo:6 Cinema
			0x08 - Neo:6 Music
		<ETR>	0x0D

Decode mode status - Multi-channel content 0x11

Command		Response	
<ST>	0x21	<ST>	0x21
<ZN>	Zone Number	<ZN>	Zone number
<CC>	0x11	<CC>	0x11
<DL>	0x01	<AC>	Answer code
<DATA>	0xF0	<DL>	0x01
<ETR>	0x0D	<DATA>	0x00 - Mono down mix
			0x01 - Stereo Down mix
			0x02 - Multi-channel mode
			0x03 - Dolby EX / DTS-ES
			0x04 - ProLogic IIx movie
			0x05 - ProLogic IIx music
		<ETR>	0x0D

Set/Request current Video output resolution status 0x13

Command		Response	
<ST>	0x21	<ST>	0x21
<ZN>	Zone Number	<ZN>	Zone number
<CC>	0x13	<CC>	0x13
<DL>	0x01	<AC>	Answer code
<DATA>	0xF0 - request video output resolution	<DL>	0x01
	0x01 - set resolution to SD Interlaced	<DATA>	0x01 - SD Interlaced
	0x02 - set resolution to SD progressive		0x02 - SD Progressive
	0x03 - set resolution to 720p		0x03 - 720p
	0x04 - set resolution to 1080i		0x04 - 1080i
	0x05 - set resolution to 1080p		0x05 - 1080p
	0x06 - set resolution to "Preferred"		0x06 - "Preferred"
	0xF1 - increment resolution	<ETR>	0x0D
	0xF2 - decrement resolution		
<ETR>	0x0D		

Menu status 0x14

Command		Response	
<ST>	0x21	<ST>	0x21
<ZN>	Zone Number	<ZN>	Zone number
<CC>	0x14	<CC>	0x14
<DL>	0x01	<AC>	Answer code
<DATA>	0xF0 - Request Menu Status	<DL>	0x01
<ETR>	0x0D	<DATA>	0x00 - No menus open at this time
			0x01 - Menu open
			0x02 - Set-up menu open
			0x03 - Trim menu open
			0x04 - Bass menu open
			0x05 - Treble menu open
			0x06 - sync menu open
			0x07 - Sub menu open
			0x08 - Tuner menu open
			0x09 - Network menu open
		<ETR>	0x0D

FM Genre 0x03

Command		Response	
<ST>	0x21	<ST>	0x21
<ZN>	Zone number	<ZN>	Zone number
<CC>	0x03	<CC>	0x03
<DL>	0x01	<AC>	Answer code
<DATA>	0xF0	<DL>	(v) variable
<ETR>	0x0D	<DATA1> -	Program type in ASCII characters
		<DATA(v)	
		<ETR>	0x0D

Tuner preset - recall and status 0x15

Command		Response	
<ST>	0x21	<ST>	0x21
<ZN>	Zone number	<ZN>	Zone number
<CC>	0x15	<CC>	0x15
<DL>	0x01	<AC>	Answer code
<DATA>	0xF0 - current tuner preset	<DL>	0x01
	0x01 - 0x32 (1-50) - preset	<DATA>	0xFF - Currently no preset selected
	number to be recalled		0x01 - 0x32 (1-50) - current preset number
<ETR>	0x0D	<ETR>	0x0D

Tune 0x16

Command		Response	
<ST>	0x21	<ST>	0x21
<ZN>	Zone number	<ZN>	Zone number
<CC>	0x16	<CC>	0x16
<DL>	0x01	<AC>	Answer code
<DATA>	0x01 - Increment frequency by 1	<DL>	0x02
	0x00 - Decrement frequency by 1	<DATA1>	FM: Frequency - MHz
	0xF0 - Current frequency status		AM: Frequency - 1000's & 100's - kHz
<ETR>	0x0D	<DATA2>	FM: Frequency - 10's kHz
			AM: Frequency - 10's & 1's kHz
		<ETR>	0x0D

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Request Sirius station 0x18

Command		Response	
<ST>	0x21	<ST>	0x21
<ZN>	Zone number	<ZN>	Zone number
<CC>	0x18	<CC>	0x18
<DL>	0x01	<AC>	Answer code
<DATA>	0xF0	<DL>	(v) variable
<ETR>	0x0D	<DATA>	Program label of Sirius station in ASCII characters
		<ETR>	0x0D

Request Sirius station program type 0x19

Command		Response	
<ST>	0x21	<ST>	0x21
<ZN>	Zone number	<ZN>	Zone number
<CC>	0x19	<CC>	0x19
<DL>	0x01	<AC>	Answer code
<DATA>	0xF0	<DL>	(v) variable
<ETR>	0x0D	<DATA>	Program type of Sirius station in ASCII characters
		<ETR>	0x0D

Request DLS information from current station 0x1A

Command		Response	
<ST>	0x21	<ST>	0x21
<ZN>	Zone number	<ZN>	Zone number
<CC>	0x1A	<CC>	0x1A
<DL>	0x01	<AC>	Answer code
<DATA>	0xF0 - Sirius DLS request	<DL>	(v) variable
<ETR>	0x0D	<DATA>	Label of Sirius program in ASCII characters
		<ETR>	0x0D

Request preset details 0x1B

Command		Response	
<ST>	0x21	<ST>	0x21
<ZN>	Zone number	<ZN>	Zone number
<CC>	0x1B	<CC>	0x1B
<DL>	0x01	<AC>	Answer code
<DATA>	0x01-0x32 (1-50): number of the preset	<DL>	(v) variable
<ETR>	0x0D	<DATA1>	0x01-0x32 (1-50): number of the preset
		<DATA2>	0x00 - AM frequency
			0x01 - FM frequency
			0x04 - Sirius
		<DATA3>	FM: Frequency - MHz
			AM: Frequency - 1000's & 100's - kHz
		<DATA4>	FM: Frequency - 10's kHz
			AM: Frequency - 10's & 1's kHz
		<DATA(v)>	The Sirius name in ASCII characters
		<ETR>	0x0D

Network playback status 0x1C

Command		Response	
<ST>	0x21	<ST>	0x21
<ZN>	Zone number	<ZN>	Zone number
<CC>	0x1C	<CC>	0x1C
<DL>	0x01	<AC>	Answer code
<DATA>	0xF0	<DL>	(v) variable
<ETR>	0x0D	<DATA1>	0x00 - Navigating
			0x01 - Playing
			0x02 - Paused
			0xFF - Busy/Not Playing
		<DATA2> -	Name of folder if navigating - ASCII characters
		<DATA(v)>	Name of file if playing or paused - ASCII characters
		<ETR>	0x0D

Restore factory default settings 0x05

Command		Response	
<ST>	0x21	<ST>	0x21
<ZN>	0x01	<ZN>	0x01
<CC>	0x05	<CC>	0x05
<DL>	0x01	<AC>	Answer code
<DATA1>	0xAA	<DL>	0x00
<DATA2>	0xAA	<ETR>	0x0D
<ETR>	0x0D		

Display information type 0x09

Command		Response	
<ST>	0x21	<ST>	0x21
<ZN>	0x01	<ZN>	0x01
<CC>	0x09	<CC>	0x05
<DL>	0x01	<AC>	Answer code
<DATA>	For all sources:	<DL>	0x01
	0x00 - Set the display to Processing mode	<DATA>	Current display is returned - per command
	0xD0 - Set the display to Time and Date	<ETR>	0x0D
	0xE0 - Cycle through all displayable information		
	0xF0 Current diplay type		
	If current source is set to NET:		
	0x01 - Set the display to Track		
	0x02 - Set display to Artist		
	0x03 - Set display to Album		
	0x04 - Set display to audio type		
	0x05 - Set display to rate		
	If current source is Sirius		
	0x01 - Set display to Artist		
	0x02 - Set display to Composer		
	0x03 - Set display to Category Name		
	0x04 - Set display to Signal Strength		
	If current source is FM		
	0x01 - Set display to Radio text		
	0x02 - Set display to Program type		
	0x03 - Set display to Signal strength		
	If current source is AM		
	0x01 - Set display to Signal strength		
<ETR>	0x0D		

Headphone over-ride 0x1F

Activates Zone 1 mute relays when headphones are connected

Command		Response	
<ST>	0x21	<ST>	0x21
<ZN>	0x01	<ZN>	0x01
<CC>	0x1F	<CC>	0x05
<DL>	0x01	<AC>	Answer code
<DATA>	0x01 - Activate mute relay	<DL>	0x00
	0x00 - Deactivate mute relays	<DATA>	State of mute relay
<ETR>	0x0D	<ETR>	0x0D

Request incoming audio format 0x43

Command		Response		
<ST>	0x21	<ST>	0x21	
<ZN>	Zone number	<ZN>	Zone number	
<CC>	0x43	<CC>	0x43	
<DL>	0x01	<AC>	Answer code	
<DATA>	0xF0	<DL>	0x02	
<ETR>	0x0D	<DATA 1>	Format of incoming audio stream	
			0x00	PCM
			0x01	Analog Direct
			0x02	Dolby Digital
			0x03	Dolby Digital EX
			0x04	Dolby Digital Surround
			0x05	Dolby Digital Plus
			0x06	Dolby Digital True HD
			0x07	DTS
			0x08	DTS 96/24
			0x09	DTS ES Matrix
			0x0A	DTS ES Discrete
			0x0B	DTS ES Matrix 96/24
			0x0C	DTS ES Discrete 96/24
			0x0D	DTS HD Master Audio
			0x0E	DTS HD High Res Audio
			0x0F	DTS Low Bit Rate
			0x10	DTS Core
			0x11	AAC
			0x12	MPEG
			0x13	Unsupported
			0x14	Undetected

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Request incoming audio format 0x43 *(continued)*

Command	Response	
	<DATA 2>	Configuration of the incoming audio channels
		0x00 Dual Mono
		0x01 Center only
		0x02 Stereo only
		0x03 Stereo + mono surround
		0x04 Stereo + Surround L&R
		0x05 Stereo + Surround L&R +mono surround back
		0x06 Stereo + Surround L&R + surround back L&R
		0x07 Stereo + Surround L&R containing matrix information for surround L&R
		0x08 Stereo + Center
		0x09 Stereo + Center + mono surround
		0x0A Stereo + Center + Surround L&R
		0x0B Stereo + Center + Surround L&R + mono surround back
		0x0C Stereo + Center + Surround L&R +surround back L&R
		0x0D Stereo + Center + Surround L&R containing matrix information for surround back L&R
		0x0E Stereo Downmix (Left total Right total)
		0x0F Stereo Only (Left Only Right Only)
		0x10 Dual Mono + LFE
		0x11 Center + LFE
		0x12 Stereo + LFE
		0x13 Stereo + single surround +LFE
		0x14 Stereo + Surround L&R + LFE
		0x15 Stereo + Surround L&R + mono Surround Back + LFE
		0x16 Stereo + Surround L&R + surround back L&R +LFE
		0x17 Stereo + Surround L&R + LFE
		0x18 Stereo + Center + LFE containing matrix information for surround back L&R
		0x19 Stereo + Center + single surround + LFE
		0x1A Stereo + Surround L&R + LFE Standard 5.1
		0x1B Stereo + Center + Surround L&R + mono Surround back +LFE 6.1
		0x1C Stereo + Center + Surround L&R + Surround Back L&R + LFE
		0x1D Stereo + Center + Surround L&R + LFE, containing matrix information for surround back L&R 6.1
		0x1E Stereo Downmix (Lt & Rt) + LFE
		0x1F Stereo Only (Lo&Ro) + LFE
		0x20 Unknown
		0x21 Undetected
	<ETR>	0x0D

Treble EQ 0x35

Command		Response	
<ST>	0x21	<ST>	0x21
<ZN>	Zone Number	<ZN>	Zone number
<CC>	0x35	<CC>	0x35
<DL>	0x01	<AC>	Answer code
<DATA>	0x00 - 0x0A - Set treble to 0db - +10db	<DL>	0x01
	0x81 - 0x8A - Set treble to –1db - –10db	<DATA>	0x00 - 0x0A - Treble is set to 0db - 10db
	0xF1 - increment 1db		0x81 - 0x8A - Treble is set to –1db - –10db
	0xF2 - decrement 1db	<ETR>	0x0D
	0xF0 - Request current treble value		
<ETR>	0x0D		

Bass EQ 0x36

Command		Response	
<ST>	0x21	<ST>	0x21
<ZN>	Zone Number	<ZN>	Zone number
<CC>	0x36	<CC>	0x36
<DL>	0x01	<AC>	Answer code
<DATA>	0x00 - 0x0A - Set bass to 0db - +10db	<DL>	0x01
	0x81 - 0x8A - Set bass to –1db - –10db	<DATA>	0x00 - 0x0A - Bass is set to 0db - 10db
	0xF1 - increment 1db		0x81 - 0x8A - Bass is set to –1db - –10db
	0xF2 - decrement 1db	<ETR>	0x0D
	0xF0 - Request current treble value		
<ETR>	0x0D		

Room EQ 0x37

Command		Response	
<ST>	0x21	<ST>	0x21
<ZN>	Zone Number	<ZN>	Zone number
<CC>	0x37	<CC>	0x37
<DL>	0x01	<AC>	Answer code
<DATA>	0xF0 - Request current Room EQ status	<DL>	0x01
	0xF1 - Room EQ on	<DATA>	0x00 - Room EQ is off
	0xF2 - Room EQ off		0x01 - Room EQ on
<ETR>	0x0D		0x02 - Room EQ has not been calculated
<ETR>	0x0D		

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Dolby Volume 0x38

Command		Response	
<ST>	0x21	<ST>	0x21
<ZN>	Zone Number	<ZN>	Zone number
<CC>	0x38	<CC>	0x38
<DL>	0x01	<AC>	Answer code
<DATA>	0x00 - Dobly Volume is off	<DL>	0x01
	0x01 - Dolby Volume is on in Music mode	<DATA>	0x00 - Dolby Volume is off
	0x02 - Dolby Volume is on in Movie mode		0x01 - Dolby Volume is on in Music mode
	0xF0 - Request current Dolby Volume mode		0x02 - Dolby Volume is on in Movie mode
<ETR>	0x0D	<ETR>	0x0D

Dolby Leveller 0x39

Command		Response	
<ST>	0x21	<ST>	0x21
<ZN>	Zone Number	<ZN>	Zone number
<CC>	0x38	<CC>	0x39
<DL>	0x01	<AC>	Answer code
<DATA>	0x00 - 0x0A - Set Dolby Leveller to 0 - 10	<DL>	0x01
	0xF0 - Request current Dolby Leveller setting 10	<DATA>	0x00 - 0x0A - Dolby Leveller setting is 0 - 10
	0xF1 - Increment Dolby Leveller setting		0xFF - Dolby Leveller is off
	0xF2 - Decrement Dolby Leveller setting	<ETR>	0x0D
	0xFF - Turn off Dolby Leveller		
<ETR>	0x0D		

Dolby Volume Calibration 0x3A

Command		Response	
<ST>	0x21	<ST>	0x21
<ZN>	Zone Number	<ZN>	Zone number
<CC>	0x3A	<CC>	0x3A
<DL>	0x01	<AC>	Answer code
<DATA>	0x00 - 0x0F - Set the calibration offset to 0 - 15db	<DL>	0x01
	0x80 - 0x8F - Set the calibration offset to –1 - –15db	<DATA>	0x00 - 0x0F - Calibration offset is 0 - 15db
	0xF0 - Request current calibration offset		0x80 - 0x8F - Calibration offset is –1 - –15db
	0xF1 - increment calibration offset by 1db	<ETR>	0x0D
	0xF2 - Decrement calibration offset by 1db		
<ETR>	0x0D		

Balance 0x3B

Command		Response	
<ST>	0x21	<ST>	0x21
<ZN>	Zone Number	<ZN>	Zone number
<CC>	0x3B	<CC>	0x3B
<DL>	0x01	<AC>	Answer code
<DATA>	0x00 - 0x06 - Set the balance to 0 - 6	<DL>	0x01
	0x81 - 0x86 - Set the balance to –1 - –6	<DATA>	0x00 - 0x06 - Balance is 0 - 6
	0xF0 - Request current balance		0x81 - 0x86 - Balance is –1 - –6
	0xF1 - Increment the balance by 1db	<ETR>	0x0D
	0xF2 - Decrement the balance by 1db		
<ETR>	0x0D		

Dolby Pro Logic II Dimension 0x3C

Command		Response	
<ST>	0x21	<ST>	0x21
<ZN>	Zone Number	<ZN>	Zone number
<CC>	0x3C	<CC>	0x3C
<DL>	0x01	<AC>	Answer code
<DATA>	0x00 - 0x03 - Set Pro Logic II Dimension parameter to 0 - 3	<DL>	0x01
	0x81 - 0x83 - Set Pro Logic II Dimension parameter to –1 - –3	<DATA>	0x00 - 0x03 Pro Logic II Dimension is 0 - 3
	0xF0 - Request current Pro Logic II Dimension setting		0x81 - 0x83 Pro Logic II Dimension is –1 - –3
	0xF1 - Increment the Pro Logic II Dimension	<ETR>	0x0D
	0xF2 - Decrement the Pro Logic II Dimension		
<ETR>	0x0D		

Dolby Pro Logic II Center Width 0x3D

Command		Response	
<ST>	0x21	<ST>	0x21
<ZN>	Zone Number	<ZN>	Zone number
<CC>	0x3D	<CC>	0x3D
<DL>	0x01	<AC>	Answer code
<DATA>	0x00 - 0x07 - Set Pro Logic II Center Width parameter to 0 - 7	<DL>	0x01
	0xF0 - Request current Pro Logic II Center Width setting	<DATA>	0x00 - 0x07 - Pro Logic II Center Width parameter is 0 - 7
	0xF1 - increment the Pro Logic II Center Width setting	<ETR>	0x0D
	0xF2 - Decrement the Pro Logic II Center Width setting		
<ETR>	0x0D		

Dolby Pro Logic II Panorama 0x3E

Command		Response	
<ST>	0x21	<ST>	0x21
<ZN>	Zone Number	<ZN>	Zone number
<CC>	0x3E	<CC>	0x3E
<DL>	0x01	<AC>	Answer code
<DATA>	0xF0 - Request current Pro Logic II Panorama setting	<DL>	0x01
	0xF1 - Set Dolby Pro Logic II Panorama on	<DATA>	0x00 - Dolby Pro Logic II Panorama is off
	0xF2 - Set Dolby Pro Logic II Panorama off		0x01 - Dolby Pro Logic II Panorama is on
<ETR>	0x0D	<ETR>	0x0D

Subwoofer Trim 0x3F

Command		Response	
<ST>	0x21	<ST>	0x21
<ZN>	Zone Number	<ZN>	Zone number
<CC>	0x3F	<CC>	0x3F
<DL>	0x01	<AC>	Answer code
<DATA>	0x00 - 0x28 - Set positive subwoofer trim in 0.25db steps (e.g. 0x08 = +2db)	<DL>	0x01
	0x81 - 0A8 - Set negative subwoofer trim in 0.25db steps (e.g. 0x89 = -2.25db)	<DATA>	0x00 - 0x28 - Positive subwoofer trim in 0.25db
	0xF0 - Request current subwoofer trim value		0x81 - 0xA8 - Negative subwoofer trim in 0.25db
	0xF1 - Increment the subwoofer trim by 1db	<ETR>	0x0D
	0xF2 - Decrement the subwoofer trim by 1db		
<ETR>	0x0D		

Lipsync Delay 0x40

Command		Response	
<ST>	0x21	<ST>	0x21
<ZN>	Zone Number	<ZN>	Zone number
<CC>	0x40	<CC>	0x40
<DL>	0x01	<AC>	Answer code
<DATA>	0x00 - 0xC8 - set lipsync delay in 5ms steps (e.g. 0x06 = 30ms)	<DL>	0x01
	0xF0 Request current lipsync delay setting	<DATA>	0x00 - 0xC8 - lipsync delay in 5ms steps
	0xF1 Increment lipsync delay setting by 5ms	<ETR>	0x0D
	0xF2 Decrement lipsync delay setting by 5ms		
<ETR>	0x0D		

Compression 0x41

Command		Response	
<ST>	0x21	<ST>	0x21
<ZN>	Zone Number	<ZN>	Zone number
<CC>	0x41	<CC>	0x41
<DL>	0x01	<AC>	Answer code
<DATA>	0x00 - Compression off	<DL>	0x01
	0x01 - Set compression to On/Auto (follows HD audio stream metadata compression flag and sets compression to On if no metadata is present)	<DATA>	0x00 - Compression off
	0x02 - set compression to On		0x01 - Compression is set to On/Auto
	0xF0 - Request current compression setting		0x02 - Compression is On
<ETR>	0x0D	<ETR>	0x0D

Request incoming video parameters 0x42

Command		Response	
<ST>	0x21	<ST>	0x21
<ZN>	Zone Number	<ZN>	Zone number
<CC>	0x42	<CC>	0x42
<DL>	0x01	<AC>	Answer code
<DATA>	0xF0 - Request incoming video parameters	<DL>	0x07
<ETR>	0x0D	<DATA1>	Horizontal resolution MSB (e.g. for 1080p: 0x07 since 1920 =0x0780)
		<DATA2>	Horizontal resolution LSB (e.g. for 1080p: 0x80 since 1920 = 0x0780)
		<DATA3>	Vertical resolution MSB (e.g. for 1080p: 0x04 since 1080 = 0x0438)
		<DATA4>	Vertical resolution LSB (e.g. for 1080p: 0x38 since 1080 = 0x0438)
		<DATA5>	Refresh rate for full image update (half the field rate for interlaced signals) (e.g. for 60Hz interlaced: 0x1E)
		<DATA6>	0x00 - progressive
			0x01 - interlaced
		<DATA7>	Aspect:
			0x00 - undefined
			0x01 - 4:3
			0x02 - 16:9
		<ETR>	0x0D

Request incoming audio sample rate 0x44

Command		Response	
<ST>	0x21	<ST>	0x21
<ZN>	Zone Number	<ZN>	Zone number
<CC>	0x44	<CC>	0x44
<DL>	0x01	<AC>	Answer code
<DATA>	0xF0 - Request incoming audio sample rate	<DL>	0x01
<ETR>	0x0D	<DATA>	0x00 - 32KHz
			0x01 - 44.1KHz
			0x02 - 48KHz
			0x03 - 88.2KHz
			0x04 - 96KHz
			0x05 - 176.4KHz
			0x06 - 196KHz
			0x07 - unknown
			0x08 - undetected
		<ETR>	0x0D

Set/request Sub Stereo Trim 0x45

Query or set the sub trim value for stereo mode

Command		Response	
<ST>	0x21	<ST>	0x21
<ZN>	Zone Number	<ZN>	Zone number
<CC>	0x45	<CC>	0x45
<DL>	0x01	<AC>	Answer code
<DATA>	0x00 - set the Sub Stereo Trim to 0db	<DL>	0x01
	0x80 - 0xA8 - set the Sub Stereo Trim value to -0.25db – -10.00db	<DATA>	0x00 - Sub Stereo Trim value is set to 0.00db
	0xF0 - Request Sub Stereo Trim value		0x80 - 0xA8 - Sub Stereo Trim value in -0.25db steps
	0xF1 - Increment Sub Stereo Trim value by 0.25db steps	<ETR>	0x0D
	0xF2 - Decrement Sub Stereo Trim value by 0.25db steps		
<ETR>	0x0D		

Set/Request Video Brightness 0x46

Command		Response	
<ST>	0x21	<ST>	0x21
<ZN>	Zone Number	<ZN>	Zone number
<CC>	0x46	<CC>	0x46
<DL>	0x01	<AC>	Answer code
<DATA>	0x00 - 0x0A - set the Brightness value to 0 - 10	<DL>	0x01
	0x81 - 0x8A - set the Brightness value to –1 - –10	<DATA>	0x00 - 0x0A - Brightness value 0 - 10
	0xF0 - Request Brightness value		0x81 - 0x8A - Brightness value –1 - –10
	0xF1 - Increment Brightness value by 1	<ETR>	0x0D
	0xF2 - Decrement Brightness value by 1		
<ETR>	0x0D		

Set/Request Contrast 0x47

Command		Response	
<ST>	0x21	<ST>	0x21
<ZN>	Zone Number	<ZN>	Zone number
<CC>	0x47	<CC>	0x47
<DL>	0x01	<AC>	Answer code
<DATA>	0x00 - 0x0A - set the Contrast value to 0 - 10	<DL>	0x01
	0x81 - 0x8A - set the Contrast value to –1 - –10	<DATA>	0x00 - 0x0A - Contrast value 0 - 10
	0xF0 - Request Contrast value		0x81 - 0x8A - Contrast value -1 – -10
	0xF1 - Increment Contrast value by 1	<ETR>	0x0D
	0xF2 - Decrement Contrast value by 1		
<ETR>	0x0D		

Set/Request Color 0x48

Command		Response	
<ST>	0x21	<ST>	0x21
<ZN>	Zone Number	<ZN>	Zone number
<CC>	0x48	<CC>	0x48
<DL>	0x01	<AC>	Answer code
<DATA>	0x00 - 0x0A - set the Color value to 0 - 10	<DL>	0x01
	0x81 - 0x8A - set the Color value to –1 - –10	<DATA>	0x00 - 0x0A - Color value 0 - 10
	0xF0 - Request Color value		0x81 - 0x8A - Color value –1 - –10
	0xF1 - Increment Color value by 1	<ETR>	0x0D
	0xF2 - Decrement Color value by 1		
<ETR>	0x0D		

Set/Request Picture Mode 0x49

Command		Response	
<ST>	0x21	<ST>	0x21
<ZN>	Zone Number	<ZN>	Zone number
<CC>	0X49	<CC>	0x49
<DL>	0X01	<AC>	Answer code
<DATA>	0X00 - Set Picture Mode to Auto	<DL>	0x01
	0x01 - Set Picture Mode to Video	<DATA>	0x00 - Picture Mode is set to Auto
	0x02 - Set Picture mode to Film		0x01 - Picture Mode is set to Video
	0xF0 - Request Picture Mode		0x02 - Picture Mode is set to Film
	0xF1 - Increment Picture Mode	<ETR>	0x0D
	0xF2 - Decrement Picture Mode		
<ETR>	0x0D		

Set/Request Edge Enhancment 0x4A

Command		Response	
<ST>	0x21	<ST>	0x21
<ZN>	Zone Number	<ZN>	Zone number
<CC>	0x4A	<CC>	0x4A
<DL>	0x01	<AC>	Answer code
<DATA>	0x00 - Set Edge Enhancement to Off	<DL>	0x01
	0x01 - Set Edge Enhancement to Low	<DATA>	0x00 - Edge Enhancement is Off
	0x02 - Set Edge Enhancement to Medium		0x01 - Edge Enhancement is set to Low
	0x03 - Set Edge Enhancement to High		0x02 - Edge Enhancement is set to Medium
	0xF0 - Request current Edge Enhancement value		0x03 - Edge Enhancement is set to High
	0xF1 - Increment Edge Enhancement value	<ETR>	0x0D
	0xF2 - Decrement Edge Enhenacement value		
<ETR>	0x0D		

Set/Request Mosquito Noise Reduction 0x4B

Command		Response	
<ST>	0x21	<ST>	0x21
<ZN>	Zone Number	<ZN>	Zone number
<CC>	0x4B	<CC>	0x4B
<DL>	0x01	<AC>	Answer code
<DATA>	0x00 - Set Mosquito NR to Off	<DL>	0x01
	0x01 - Set Mosquito NR to Low	<DATA>	0x00 - Mosquito NR is Off
	0x02 - Set Mosquito NR to Medium		0x01 - Mosquito NR is set to Low
	0x03 - Set Mosquito NR to High		0x02 - Mosquito NR is set to Medium
	0xF0 - Request current Mosquito NR value		0x03 - Mosquito NR is set to High
	0xF1 - Increment Mosquito NR value	<ETR>	0x0D
	0xF2 - Decrement Mosquito NR value		
<ETR>	0x0D		

Set/Request Noise Reduction 0x4C

Command		Response	
<ST>	0x21	<ST>	0x21
<ZN>	Zone Number	<ZN>	Zone number
<CC>	0x4C	<CC>	0x4C
<DL>	0x01	<AC>	Answer code
<DATA>	0x00 - Set Noise Reduction to Off	<DL>	0x01
	0x01 - Set Noise Reduction to Low	<DATA>	0x00 - Noise Reduction is Off
	0x02 - Set Noise Reduction to Medium		0x01 - Noise Reduction is set to Low
	0x03 - Set Noise Reduction to High		0x02 - Noise Reduction is set to Medium
	0xF0 - Request current Noise Reduction value		0x03 - Noise Reduction is set to High
	0xF1 - Increment Noise Reduction value	<ETR>	0x0D
	0xF2 - Decrement Noise Reduction value		
<ETR>	0x0D		

Set/Request Block Noise Reduction 0x4D

Command		Response	
<ST>	0x21	<ST>	0x21
<ZN>	Zone Number	<ZN>	Zone number
<CC>	0x4D	<CC>	0x4D
<DL>	0x01	<AC>	Answer code
<DATA>	0x00 - Set Block Noise Reduction to Off	<DL>	0x01
	0x01 - Set Block Noise Reduction to Low	<DATA>	0x00 - Block Noise Reduction is Off
	0x02 - Set Block Noise Reduction to Medium		0x01 - Block Noise Reduction is set to Low
	0x03 - Set Block Noise Reduction to High		0x02 - Block Noise Reduction is set to Medium
	0xF0 - Request current Block Noise Reduction value		0x03 - Block Noise Reduction is set to High
	0xF1 - Increment Block Noise Reduction value	<ETR>	0x0D
	0xF2 - Decrement Block Noise Reduction value		
<ETR>	0x0D		

Set/Request Zone 1 OSD 0x4E

Command		Response	
<ST>	0x21	<ST>	0x21
<ZN>	Zone Number	<ZN>	Zone number
<CC>	0x4E	<CC>	0x4E
<DL>	0x01	<AC>	Answer code
<DATA>	0xF0 - Request current state of Zone 1 OSD	<DL>	0x01
	0xF1 - Set Zone 1 OSD to On	<DATA>	0x00 - Zone 1 OSD is On
	0xF2 - Set Zone 1 OSD to Off		0x01 - Zone 1 OSD is Off
<ETR>	0x0D	<ETR>	0x0D

Set/Request Video Output Switching 0x4F

Sets or Requests the HDMI video output selection and priority			
Command		**Response**	
<ST>	0x21	<ST>	0x21
<ZN>	Zone Number	<ZN>	Zone number
<CC>	0x4F	<CC>	0x4F
<DL>	0x01	<AC>	Answer code
<DATA>	0x00 - Set HDMI Output 1 Auto-Priority	<DL>	0x01
	0x01 - Set HDMI Output 2 Auto-Priority	<DATA>	0x00 - HDMI Ouput 1 Auto-Priority
	0x02 - Set HDMI Output 1		0x01 - HDMI Output 2 Auto-Priority
	0x03 - Set HDMI Output 2		0x02 - HDMI Output 1
	0x04 - Set HDMI Output 1 & 2		0x03 - HDMI Output 2
	0xF0 - Request current video output switching		0x04 - HDMI Output 1 & 2
	0xF1 - Increment setting	<ETR>	0x0D
	0xF2 - Decrement setting		
<ETR>	0x0D		

Set/Request Output Frame Rate 0x50

Command		Response	
<ST>	0x21	<ST>	0x21
<ZN>	Zone Number	<ZN>	Zone number
<CC>	0x50	<CC>	0x50
<DL>	0x01	<AC>	Answer code
<DATA>	0x00 - Set the Frame Rate to Auto	<DL>	0x01
	0x01 - Set the Frame Rate to Follow the Source	<DATA>	0x00 - Frame Rate is set to Auto
	0x02 - Set the Frame Rate to 50Hz		0x01 - Frame Rate is set to 50Hz
	0x03 - Set the Frame Rate to 60Hz		0x02 - Frame Rate is set to 60Hz
	0xF0 - Request the current Frame Rate	<ETR>	0x0D
	0xF1 - Increment setting		
	0xF2 - Decrement setting		
<ETR>	0x0D		

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Troubleshooting Common Problems

General

There are no lights on the Maestro M3

✓ Pressing any button or the Standby button on the front panel should wake the Maestro M3.

✓ Verify that the power cord is plugged into a live AC outlet.

✓ Verify that the rear panel Power switch on the Maestro M3 is "On".

The main front panel display is blank

✓ Press the Display button. This button controls the display brightness and also allows you to turn the display off entirely.

The main zone changes while selecting sources from Zone 2

✓ Change the Zone 1 Control option in the Zone 2 Configuration Menu to Off.

Video

No video/picture

✓ Verify your video display or projector is turned on and set to the correct input for the Maestro M3. Press the Menu button on the Maestro M3 and look for the Main Menu to show on the video display.

✓ Verify the correct input on the video display is selected for the output of the source (i.e. Component Video if the output of the DVD player is Component).

✓ Verify the Video Input assignment configurations. Make certain that the correct video input is assigned to the source you are playing.

✓ If at any point you need to reset the video output resolution and frame rate to the default setting, push and hold the "Select" button for 3 seconds.

✓ If you are using a Blu-ray player with a 1080p/24 fps (frames per second) format, you will want to confirm the output format of the player you are using matches with the input format of your display device. The Maestro M3 supports both 1080p/24 fps (frames per second) and the more commonly used 1080p/60 fps video formats. To properly utilize the 1080p/24 format you will want to make sure that the source device (i.e. Blu-ray player) and the display device (i.e. projector or TV) are both capable of supporting this format. In the Video Output section of the Setup menus, set the Output Resolution of your Maestro M3 to 1080p (not Preferred) and make sure that the Frame Rate is set to Auto. Failure to do any of the above could result in no image.

No Video on Zone 2

✓ Verify the composite video input from source is connected.

There is no On-Screen Display (OSD)

✓ Verify the OSD is turned on in the Maestro M3 configuration settings.

✓ Verify that the correct input is selected on the video display or projector.

Audio

The audio doesn't match the video

✓ The Video and Audio input can be selected independently in the Main Menu. Verify they are set the same.

✓ Verify the correct Video Input and Digital Audio input assignments are configured for the Source input button.

The sound is poor or distorted

✓ Verify the speaker settings configuration matches your speakers. If a speaker is set to Large and it cannot reproduce full range bass, you will hear distortion.

✓ If the trouble is only on some channels: Verify the audio RCA cables to the power amplifiers are working and seated properly.

✓ If the trouble is in all channels: Verify the Input Trim setting in the Advanced Configurations is not set too low.

Cannot select Dolby Digital or DTS decoding mode

✓ The Maestro M3 can only decode formats encoded onto the source. Normally these are marked on the packaging or liner notes of the material.

✓ Verify that the correct format is selected in the Start menu of the DVD.

✓ Verify that the digital input from the source is properly connected to the Maestro M3.

✓ Verify that the digital output of the source is enabled. Some DVD players have a setup menu that can only be accessed if there is no disk in the player.

Hum on analog inputs

✓ Verify that all the two channel analog audio cables are connected properly.

✓ If the hum only occurs on one source, try a different set of connecting cables.

✓ If the hum occurs on a source with an external connection such as an antenna or cable TV, try disconnecting that input. If the hum disappears, put a ground isolator on that connection.

No audio on Zone 2 or 3

✓ Zone 2 and Zone 3 are muted when units is first turned on.

No Zone 2 audio when playing a DTS encoded video

✓ Most DVD players cannot output a stereo analog version of the soundtrack while playing a DTS encoded disk. If you want to watch the movie in the second zone, select the Dolby Digital soundtrack on the disk.

Unable to adjust the Bass and Treble controls

✓ The Bass and Treble tone controls are defeated.

WARRANTY

…and now a word from the legal department...

People are scared of warranties. Lots of fine print. Months of waiting around. Well, fear no more. This warranty is designed to make you rave about us to your friends. It's a warranty that looks out for you and helps you resist the temptation to have your friend, who's "good with electronics", try to repair your AudioControl product. So go ahead, read this warranty, then take a few days to enjoy your new Maestro M3 home theater system before logging onto the our web site at www.audiocontrol.com and register your purchases.

"Conditional" doesn't mean anything ominous. The Federal Trade Commission tells all manufacturers to use the term to indicate that certain conditions have to be met before they'll honor the warranty. If you meet all of these conditions, we will warrant all materials and workmanship on the Maestro M3 for five (5) years from the date you bought it, and we will fix or replace it, at our option, during that time. Here are the conditional conditions:

1. You need to register your purchases of the Maestro M3 with us by going to the AudioControl web site (www.audiocontrol.com), click on the "Home Theater" tab and then go to the warranty registration department and follow the directions.

2. You must keep your sales receipt for proof of purchase showing when and from whom the unit was bought. We're not the only ones who require this, so it's a good habit to get into with any major purchase.

3. The Maestro M3 must have originally been purchased from an authorized AudioControl dealer. You do not have to be the original owner, but you do need a copy of the original sales receipt or invoice.

4. You cannot let anybody who isn't: (A) the AudioControl factory; (B) somebody authorized in writing by AudioControl to service the Maestro M3. If anyone other than (A) or (B) messes with the Maestro M3, that voids your warranty.

5. The warranty is also void if the serial number is altered or re-

moved, or if the Maestro M3 has been used improperly. Now that sounds like a big loophole, but here is all we mean by it:

Unwarranted abuse is: (A) physical damage (don't use the Maestro M3 to level your projection TV); (B) improper connections (120 volts into the RCA jacks can fry the poor thing); (C) sadistic things. This is the best product we know how to build, but if you strap it to the front bumper of your Range Rover, something will break.

Assuming you conform to 1 through 5 (and it really isn't all that hard to do) we get the option of fixing your original unit or replacing it with a new one.

LEGALESE SECTION

This is the only warranty given by AudioControl. This warranty gives you specific legal rights that vary from state to state. Promises of how well the Maestro M3 will perform are not implied by this warranty. Other than what we have covered in this warranty, we have no obligation, express or implied. Also, we will not be obligated for direct or indirect consequential damage to your system caused by hooking up or operating the AudioControl Maestro M3.

Failure to complete the warranty registration process negates any service

claims.

SHOULD YOU EVER NEED SERVICE…

Normally service will be handled by your AudioControl system professional who installed the system. If you're the take charge kind of person who wants to do this yourself, contact AudioControl, either by phone 425/775-8461 or email to sound.better@audiocontrol.com. We'll verify if there is anything wrong that you can fix yourself, or assist you in arranging to have it sent back to our factory for repair. Please include the following items with the returning unit:

1. A copy of your proof of purchase (that sales receipt we've been harping about). No originals please. We cannot guarantee returning them to you.

2. A brief explanation of the trouble you are having with the Maestro M3.

3. A return street address. (No P.O. Boxes, please)

4. A daytime phone number in case our technician has a question about the problem you are having.

You're responsible for the freight charges to us, but we'll pay the return freight back. We match whatever shipping method you send it to us, so if you return the unit overnight freight, we send it back overnight. We recommend UPS for any shipments.

Specifications

Maestro M3 Home Theater Processor Specifications

Inputs

Analog Audio Inputs . . . . . 7 Stereo Pairs
Nominal Audio Input Sensitivity 500mV-4V
Input Impedance . . . . . 47 ohms
Signal-to-noise 100dB
Multi-channel Analog Audio Input . . . . . 1 (8 channels)
Digital Audio Inputs . . . . . 3 Coax, 4 Optical
Video Inputs . . . . . 5 Component, 5 Composite, 5 S-Video
HDMI Inputs 5

Outputs

Maximum Output level . . . . . 6 volts
Output Impedance . . . . . <50Ω
Signal to Noise . . . . . -100 dB
Frequency Response . . . . . 20Hz to 20kHz
HDMI Outputs . . . . . 2 assignable
Main Audio Outputs . . . . . 7 main channels, 3 subwoofers
Digital Audio Output . . . . . 1 Coax, 1 Optical
Main Video Outputs . . . . . 1 Component, 3 Composite, 3 S-Video
Second Zone Output . . . . . Stereo Audio plus Composite & S-Video
Third Zone Output . . . . . Stereo Audio

Control Audio

12 Volt Trigger Outputs . . . . . Three - Main, Zone 2, Zone 3
RS-232 Serial Control . . . . . 1 - DB-9
IR Receiver Input . . . . . Three – Main, Zone 2, Zone 3 (3.5 mm Minijack)
IR Emitter Output . . . . . One (3.5 mm Minijack)

General

Power Consumption (Standby) . . . . . 3 Watts
Dimensions . . . . . 17”W x 16.5”D x 7H
Weight . . . . . 27 lbs

AudioControl®

For Those Who Consider Perfection Possible®

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