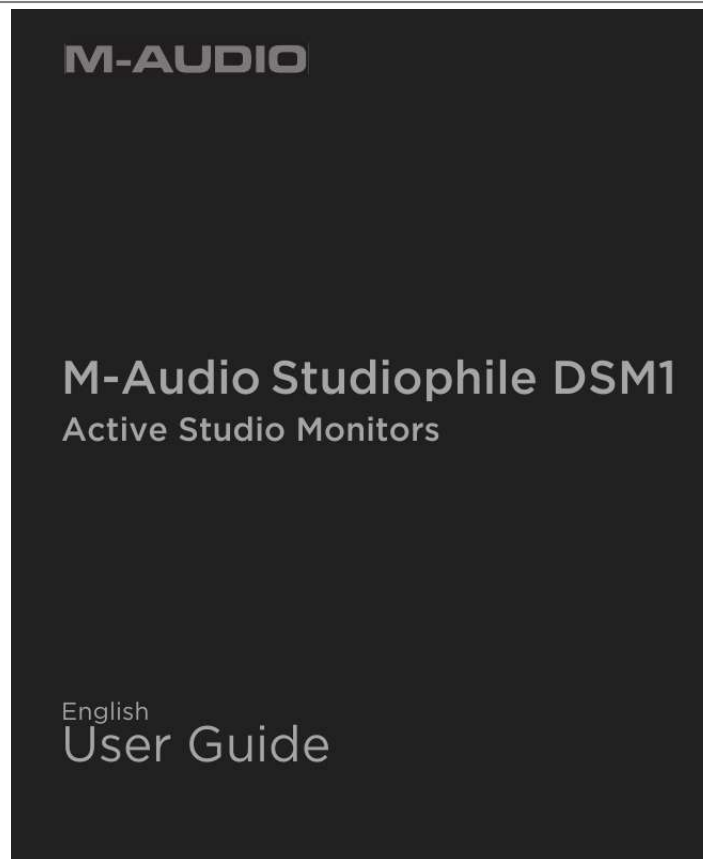




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You can read the recommendations in the user guide, the technical guide or the installation guide for M-AUDIO STUDIOPHILE DSM1. You'll find the answers to all your questions on the M-AUDIO STUDIOPHILE DSM1 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual M-AUDIO STUDIOPHILE DSM1**  
**User guide M-AUDIO STUDIOPHILE DSM1**  
**Operating instructions M-AUDIO STUDIOPHILE DSM1**  
**Instructions for use M-AUDIO STUDIOPHILE DSM1**  
**Instruction manual M-AUDIO STUDIOPHILE DSM1**



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**Manual abstract:**

NO USERSERVICABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL AFIN DEVITER UN CHOC ELECTRIQUE ET LES CONSEQUENCES GRAVES QUI POURRAIENT ENRESULTER, TENTEZ PAS D'OUVRIR L'APPAREIL ET DE TOUCHER AUX COMPOSANTS INTERNES SANS LA PRESENCE D'UNE PERSONNE QUALIFIEE. PARA REDUCIREL RIESGO DE SACUDIDAS ELECTRICAS, NO DEBERA QUITARSE LA TAPA (NI PARTE POSTERIOR). CONSULTESE AL PERSONAL CAPACITADO PARA LAS REPARACIONES INTERNAS WARNING: TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. ADVERTENCIA: PARA EVITAR EL RIESGO DE INCENDIO O SACUDIDA ELECTRICA, NO DEBERA EXPONERSE ESTE APARATO A LA LLUVIA O HUMEDAD. CAUTION: TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE. ATTENTION: POUR PREVENIR LES CHOCS ELECTRIQUES NE PAS UTILISER CETTE FICHE POLARISEE AVEC UN PROLONGATEUR. UNE PRISE DE COURANT OU UNE AUTRE SORTIE DE COURANT, SAUF SILES LAMES PEUVENT ETRE INSEREES A FOND SANS EN LAISSER AUCUNE PARTIE FOND SANS EN LAISSERAUCUNE PARTIE A DECOUVERT. PRECAUCION: PARA EVITAR SACUDIDAS ELECTRICAS, NO DEBERA UTILIZARSE ESTA CLAVIJA POLARIZADA CON UN CORDON DE PROLONGACION, RECEPTACULO U OTRO TIPO DE SALIDA A MENOS QUE SE HAYAN INSERTASO COMPLETAMENTE LAS LENGÜETAS PARA EVITAR SU EXPOSICION. NOTE: Some products are equipped with dual or multi-voltage transformers (which is indicated on the back panel).

If you wish to change the voltage, please bring your unit to an authorized service technician for internal conversion. @@@@NOTA: Ciertos componentes de están dotados de transformadores de doble tensión o de varias tensiones (lo que se indica en el panel posterior). Si se desea cambiar la tensión, sírvanse llevar el aparato a un técnico autorizado por para su conversión interna. NOTE TO CATV SYSTEMS INSTALLER: This reminder is provided to call the CATV system installer's attention to Article 820-22 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical. NOTA PARA EL INSTALADOR DE ANTENAS DE TELEVISION COLECTIVAS: La presente advertencia se provee para llamar la atención del instalador al Artículo 820-22 de NEC (Código Eléctrico Nacional) donde se facilitan las directrices para la pertinente puesta a tierra y que especifica en particular que el conductor a tierra del cable debe conectarse al sistema de conexión a tierra del edificio, lo más proximo posible al punto de entrada del cable.

The lightning flash with arrowhead, within an equilateral triangle, is intended to alert the user of the presence of uninsulated "dangerous voltage" within the product's enclosure; that may be of sufficient magnitude to constitute a risk of electric shock to persons. The exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance. !

Warning: This speaker shall not be placed in a closed area during operation so that the main switch can be easily accessed by the user. Important Safety Instructions 1. READ INSTRUCTIONS All the safety and operating instructions should be read before the appliance is operated.

9. HEAT Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat. 2. RETAIN INSTRUCTIONS The safety and operating instructions should be retained for future reference. 10. CLEANING The appliance should be cleaned only with dry cloth. 3. HEED WARNINGS All warning on the appliance and in the operating instructions should be adhered to. 11. POWER SOURCES The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.

4. FOLLOW INSTRUCTIONS All operating and use instructions should be followed. 12. POWER CORD PROTECTION Power-supply cord should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, playing particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance. 5. WATER AND MOISTURE The appliance should not be used near water for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc. 6. CARTS AND STANDS The appliance should be used only with a cart or stand that is recommended by the manufacturer. 6A. An appliance and cart combination should be moved with care.

Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn. 13. POLARIZED PLUG Do not defeat the safety purpose of the polarized or groundingtype plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong.

The wide blade or the third prong are provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet. 14. UNPLUG POWER CORD Unplug this apparatus during lightning storms or when unused for long periods of time. 7.

WALL OR CEILING MOUNTING This equipment is not designed for use mounted on a wall or a ceiling. 15. OBJECT AND LIQUID ENTRY No object filled with liquids, such as vases, etc. shall be placed on the apparatus. 8. VENTILATION The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings, or places in a built-in installation, such as bookcase or cabinet that may impede the flow of air through the ventilation openings. At least 30 cm free space around the unit for normal ventilation is required. 16. ACCESSORIES Only use attachments/accessories specified by the manufacturer.

17. SERVICING The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel. 18. DAMAGE REQUIRING SERVICE The appliance should be serviced by qualified service personnel when: a) The power-supply cord or the plug has been damaged; or b) Objects have fallen, or liquid has been spilled into the appliance; or c) The appliance has been exposed to rain; or d) The appliance does not appear to operate normally or exhibits a marked change in performance; or e) The appliance has been dropped, or the enclosure is damaged. contents Chapter 1. Introduction . . . .

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1 What's in the Box? . . . . .

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Chapter 1: Introduction 1 Inputs M-Audio DSM1 speakers allow analog or digital inputs. Input type is selectable with the Input Select switch on the back panel of the speaker. Each input type has two available connectors. Analog Inputs The analog input signal is sampled on input and processed digitally until it reaches the power amplifier stage. @@@@@ Available digital inputs include AES/EBU and S/PDIF connectors. @@@@@ EQ and Placement Settings Six filters allow for customization of speakerhas a series of 12 switches for setting the following EQ controls: High-Frequency Shelf Sets an adjustable high frequency boost or cut using a built-in HF shelftype EQ. @@@@@ @@@@@ @@@@@ @@@@@ @@@@@ @@@@@ @@@@@ @@@@@ @@@@@ @@@@@ Place speaker pairs the same distance from the two sides of the room. @@@@2 Use a small screwdriver to remove the fuse DSM1 speakers must be manually configured for the voltage in your area. Always check the voltage setting and fuse rating, as described below, before connecting and powering your speakers. Setting the Voltage Make sure the Voltage Selector setting on each speaker matches your local voltage (100120V or 220240V).

holder. Fuse holder Voltage selector 3 Remove the currently installed fuse. 4 Install the new fuse in the fuse holder. Voltage selector 5 Replace the fuse holder so that it clicks into place. Chapter 3: Setup and Operation 9 Connecting Power To connect power to the speakers: 1 Make sure you have set the Voltage Selector Connecting Audio This section explains how to make analog and digital audio connections to DSM1 speakers. and installed the proper fuse before proceeding. (See "Setting the Voltage" on page 9 for details.) 2 Connect the included AC power cord to the Connecting Analog Inputs AC connector on the back panel of each speaker (one power cord is included with each speaker). Analog Input (XLR) Analog Input (TRS) AC connector Analog input section Input Sensitivity switch To connect an analog source: 1 Do any of the following: AC connector 3 Connect the other end of the AC power cord to your power source. · Connect a balanced XLR cable to the XLR In connector on the back panel of the speaker.

· Connect a balanced 1/4-inch balanced TRS cable to the TRS In connector on the back panel of the speaker. Power Up and Power Down Always power up your speaker system last (allowing mixers, recorders and other devices to fully power up first). Conversely, always mute (or power off) your speaker system first, before powering off other devices in your studio. If you need to connect an unbalanced analog source, see "Analog Inputs" on page 4. 2 Connect the other end of the cable to the an-alog audio source (for example, an analog output from your monitoring system). 10 M-Audio Studiophile DSM1 Guide Connecting Digital Inputs The Digital Thru S/PDIF port on this speaker is then connected to the Digital In port on the other speaker to supply it with its digital audio input. S/PDIF Input S/PDIF Thru Digital Input (AES shown) S/PDIF Input S/PDIF Thru AES/EBU Input Digital input section DSM1 speakers accept digital input at the AES/EBU Digital Input (XLR connector) and the S/PDIF Digital Input. Only one digital input connector (AES/EBU In or S/PDIF In) may be active at a time. If the speaker receives digital input from more than one digital connector, digital lock may not be achieved and noise or distortion may result. In and Thru connections for digital input (AES source shown) Digital Channel Assignment When using digital input, you must configure the Channel Assign switches on the back of each speaker to set whether that speaker plays the Left or Right signal channel, accordingly.

Connecting Digital Sources AES/EBU and S/PDIF digital protocols carry two channels of audio (left and right). If you are using a digital source, you can connect it to either the AES Digital In or the S/PDIF In of one of the DSM1 speakers. (It does not matter which speaker is connected to the source.) Chapter 3: Setup and Operation 11 To connect a digital source: 1 Do any of the following: Configuring Speaker Settings Volume Trim Settings The Volume Trim control lets you match the input sensitivity of speaker to the source. If you are monitoring an analog input, make sure you have set the Analog Input Sensitivity switch to match the operating level of your input source (10 dBV or +4 dBu).



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For information on the appropriate operating level for your audio source, see the manufacturer's specifications. The maximum input levels for each sensitivity setting are shown below. Maximum input levels · Connect an AES cable (XLR) to the AES/EBU In port on the back of a speaker. · Connect a S/PDIF digital cable to the S/PDIF In port on the back of a speaker. 2 Connect the other end of the cable to the digital audio source (for example, a digital output from an M-Audio interface).

3 Connect one end of a S/PDIF digital cable to the S/PDIF Thru port of the first speaker. 4 Connect the other end of the S/PDIF digital cable to the S/PDIF In port of the second speaker. 5 Set the back panel Channel Assign switch to L (Left) or R (Right) as appropriate for the location of each speaker. Analog Input Sensitivity setting Maximum Input level (full-scale output) 3 dBV 18 dBu 10 dBV +4 dBu Channel Assign switch The Volume Trim control adjusts the level of the input signal in the digital domain. Trim values range from 22 dB to +10 dB, in 0.

5 dB steps. Setting the Volume Trim control to 0 maximizes the Signal to Noise ratio. Channel Assign switch 12 M-Audio Studiophile DSM1 Guide EQ Settings The EQ controls on DSM1 speakers let you adjust the response of the speaker to match your monitoring environment and studio equipment. For EQ frequency graphs for each of these settings, see "Reference Diagrams" on page 18. Setting the Mid-Range EQ The Mid-Range EQ lets you compensate for midrange resonance or damping that may be created by speaker placement or room acoustics.

It offers a low-Q (wide bandwidth) boost or cut. Start by leaving this switch in the "flat" (0 dB) position, then experiment with different settings to see if you like the results. To adjust the Mid-Range EQ: Set switches 3 and 4 to the positions shown below to activate the corresponding EQ levels. 3 4 ON OFF OFF OFF OFF OFF Setting the High Frequency Shelf EQ The HF Shelf EQ lets you compensate for high frequency variations that may be created by source equipment or room acoustics. Start with the HF Shelf EQ setting "flat" (0 dB) as this provides the most natural high-frequency response. To adjust the HF Shelf EQ: Set switches 1 and 2 to the positions shown below to activate the corresponding EQ levels. 1 2 ON OFF OFF ON ON ON OFF OFF 0 dB +1.5 dB 0 dB ON ON ON 1.5 dB 3.0 dB +1.

5 dB Mid-Range EQ switches and settings 1.5 dB 3.0 dB HF Shelf switches and settings Chapter 3: Setup and Operation 13 Setting the LF Shelf EQ Your choice for the LF Shelf setting depends on where you place the speakers within a room. 0 dB If you've mounted your DSM1 speakers on speaker stands away from walls and corners, set the LF Shelf to 0dB, which will give you the flattest near-field frequency response. 1.5 dB If you've mounted your DSM1 speakers near a wall, or on a reflective surface such as the meter bridge of your console, set the LF Shelf to 1.5 dB, which activates a shelving filter to reduce the low-frequency buildup. 3.0 dB If you've mounted your DSM1 speakers on stands in a corner, set the LF Shelf to 3.0 dB, which activates a shelving filter to reduce the low-frequency buildup.

4.5 dB If you've mounted your DSM1 speakers on a meter bridge (or other reflective surface), as well as in a corner, set the LF Shelf to 4.5 dB, which activates a shelving filter to reduce the low-frequency buildup. To adjust the LF Shelf EQ: Set switches 5 and 6 to the positions shown below to activate the corresponding EQ levels. 5 6 ON OFF OFF ON ON ON OFF OFF Setting the High-Pass Filter The High Pass Filter lets you adjust the bass rolloff of your DSM1 speakers.

Start with the filter all the way open (40 Hz setting) and only raise the cutoff frequency in order to protect the LF drivers at low frequencies, or to couple your DSM1 speakers with a subwoofer. To adjust the High Pass Filter: Set switches 7 and 8 to the positions shown below to activate the corresponding EQ levels. 7 8 ON OFF OFF ON ON ON OFF OFF 40 Hz 60 Hz 80 Hz 100 Hz High-Pass Filter switches and settings Setting the Desktop Filters The Desktop filters let you compensate for the effects of frequency buildup when your DSM1 speaker is placed on a reflective surface such as a desktop or meter bridge, or within a reflective surface such as a shelf or case. Experiment with the EQ options centered around 175 Hz, 200 Hz (by using the 175 Hz and 220 Hz filters at the same time), or 220 Hz. 0 dB 1.

5 dB 3.0 dB 4.5 dB LF Shelf EQ switches and settings 14 M-Audio Studiophile DSM1 Guide To adjust the Desktop 220 Hz Filter: Set switches 9 and 10 to the positions shown below to activate the corresponding EQ levels. 9 10 ON OFF OFF ON ON ON OFF OFF To adjust the Desktop 200 Hz Filter: Set switches 9, 10 11 and 12 to the positions shown below to activate the corresponding EQ levels. 9 10 11 12 ON OFF ON OFF OFF ON OFF ON ON ON ON OFF OFF OFF OFF 0 dB 0 dB 1.0 dB 2.0 dB 1.0 dB 3.0 dB Desktop 220 Hz Filter switches and settings 2.0 dB To adjust the Desktop 175 Hz Filter: Set switches 11 and 12 to the positions shown below to activate the corresponding EQ levels.

11 12 ON OFF OFF ON ON ON OFF OFF 3.0 dB 0 dB Desktop 200 Hz Filter switches and settings 1.0 dB Tips for Best Performance 2.0 dB DSM1 speakers are built and tested to exacting standards with features to protect the units from failure under normal usage. Keep in mind the following: Overdriving the units for prolonged periods or not observing the warnings set out in this guide may result in failure. If distortion occurs, reduce the input level immediately. Both the HF and LF drivers are delicate and should not be touched. A damaged driver will adversely affect the performance of the speaker. As a precaution, always turn off the units before plugging or unplugging signal connections or switching source equipment. 3.

0 dB Desktop 175 Hz Filter switches and settings Chapter 3: Setup and Operation 15 Troubleshooting The LED located on the front of the unit indicates the following states of operation. Front Panel LED States LED State Blue Indication Analog Input Digital Input: Lock Digital Input: No Lock Digital Standby Mode Clipping Hardware failure Yellow Blue (flashing) Red Red (flashing) If the LED is lit solid blue and there is no sound, do the following: Check that the unit is receiving an analog signal or valid digital signal. Check the temperature of the rear metal panel. @@ When cool, turn the unit on and check for normal operation. If necessary, relocate the unit to ensure adequate ventilation.

@@@ Wash hands after handling. © 2008 Avid Technology, Inc. All rights reserved. Product features, specifications, system requirements and availability are subject to change without notice.



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