

MegaWorks™ 510D
Multimedia Speaker System
Installation and Operating Instructions



CAMBRIDGE
SOUNDWORKS

 **EAX**™

User's Guide

MegaWorks 510D

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Version 1.0
August 2001

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Safety & Regulatory Information

Notice for the USA

FCC Part 15: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, this notice is not a guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the distance between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician.

CAUTION: To comply with the limits for the Class B digital device, pursuant to Part 15 of the FCC Rules, this device must be installed with computer equipment certified to comply with the Class B limits.

All cables used to connect the computer and peripherals must be shielded and grounded. Operation with non-certified computers or non-shielded cables may result in interference to radio or television reception.

Modifications

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the device.

The following sections contain notices for various countries:

Notice for Canada

This apparatus complies with the Class B limits for radio interference as specified in the Canadian Department of Communications Radio Interference Regulations.
Cet appareil est conforme aux normes de CLASSE "B" d'interférence radio tel que spécifiée par le Ministère Canadien des Communications dans les règlements d'interférence radio.

Important Notice

The serial number for the MegaWorks 510D is located on the subwoofer. Please write this number down and keep it in a secure area. This is for your security.

CAUTION

Take care to prevent accidental operation of your new loudspeaker system at excessive sound pressure levels! In a typical personal computer installation, the MegaWorks 510D satellite speakers are less than a meter from the listener. If you do not hear sound from your new speaker, keep the MegaWorks 510D's volume control at 40% of its rotation range (the 11 o'clock position, approximately) until you hear sound. This will prevent accidental operation at uncomfortably loud levels.

Compliance

This product conforms to the following Council Directive: Directive 89/ 336/ EEC, 92/ 31/ EEC (EMC), 73/ 23/ EEC (LVD)

Declaration of Conformity

According to the FCC96 208 and ET95-19,
Manufacturer/Importer's Name: Creative Labs, Inc.
Manufacturer/Importer's Address: 1901 McCarthy Boulevard
Milpitas, CA. 95035
United States
Tel: (408) 428-6600

declares under its sole responsibility that the product

Trade Name: Creative

Model Numbers: CSW3750

has been tested according to the FCC / CISPR22/85 requirement for Class B devices and found compliant with the following standards:

EMI/EMC: ANSI C63.4 1992, FCC Part 15 Subpart B Complies with Canadian ICES-003 Class B.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesirable operation.

Ce matériel est conforme à la section 15 des règles FCC. Son fonctionnement est soumis aux deux conditions suivantes:

1. Le matériel ne peut être source D'interférences et
2. Doit accepter toutes les interférences reçues, Y compris celles pouvant provoquer un fonctionnement indésirable.

Compliance Manager
Creative Labs, Inc.
August 1, 2001

IMPORTANT SAFETY INSTRUCTIONS

READ INSTRUCTIONS - All safety and operating instructions should be read before the *MegaWorks 510D* amplified subwoofer/satellite system is operated.

RETAIN INSTRUCTIONS - The safety and operating instructions should be retained for future reference.

HEED WARNINGS - All warnings on the subwoofer and in the operating instructions should be adhered to.

FOLLOW INSTRUCTIONS - All operating and use instructions should be followed.

CLEANING - Unplug the subwoofer from the wall outlet or other power source before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

ATTACHMENTS - Do not use attachments not recommended by Cambridge SoundWorks as they may cause hazards.

WATER AND MOISTURE - Do not use the subwoofer near water—for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.

ACCESSORIES - Do not place the *MegaWorks 510D* system on an unstable cart, stand, tripod, bracket, or table. The subwoofer or satellites may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by Cambridge SoundWorks, or sold with the product. Any mounting of the satellites or subwoofer should follow the manufacturer's instructions, and should use a mounting accessory recommended by Cambridge SoundWorks.

VENTILATION - Slots and openings in the cabinet are provided for ventilation, to ensure reliable operation of the subwoofer and to prevent it from overheating; and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. The subwoofer should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or Cambridge SoundWorks' instructions have been adhered to.

HEAT - The subwoofer should be situated away from heat sources such as radiators, heat registers, stoves, and other products (including amplifiers) that produce heat.

POWER SOURCES - The subwoofer should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power or other sources, refer to the operating instructions.

POLARIZATION - The subwoofer may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

POWER-CORD PROTECTION - Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the subwoofer.

LIGHTNING - For added protection for the *MegaWorks 510D* system during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet. This will prevent damage to the subwoofer due to lightning and power-line surges.

OVERLOADING - Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

OBJECT AND LIQUID ENTRY - Never push objects of any kind into the subwoofer through openings as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the subwoofer.

SERVICING - Do not attempt to service the subwoofer yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

DAMAGE REQUIRING SERVICE - Unplug the subwoofer from the wall outlet or other power source and refer servicing to qualified service personnel under the following conditions:

a) When the power-supply cord or plug is damaged.

- b) If liquid has been spilled, or object have fallen into the subwoofer.
- c) If the subwoofer has been exposed to rain or water.
- d) If the subwoofer does not operate normally by following the operating instructions; or exhibits a distinct change in performance.
- e) If the product has been dropped or damaged in any way.

REPLACEMENT PARTS - When replacement parts are required, be sure the service technician has used replacement parts specified by Cambridge SoundWorks or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

SAFETY CHECK - Upon completion of any service or repairs to the *MegaWorks 510D* system, ask the service technician to perform safety checks to determine that the *MegaWorks 510D* system is in proper operating condition.

WALL OR CEILING MOUNTING - The *MegaWorks 510D* satellites should be mounted to a wall or ceiling only as recommended by Cambridge SoundWorks.

MegaWorks 510D

Thank you for buying *MegaWorks 510D* by Cambridge SoundWorks. This 5.1 amplified multimedia speaker system supports the best audio technology today: EAX™, DirectSound®3D, Dolby®Digital 5.1 and four-channel gaming, from either an analog source or a digital source of up to 96 kHz data rate or 24 bit word length. This makes *MegaWorks 510D* the ideal companion for the latest Sound Blaster Audigy/Live! sound cards supporting 5.1-channel output. Enjoy Dolby Digital 5.1-channel surround sound using software DVD.



EAX is a collection of powerful, innovative audio technologies. Designed by Creative's world-class audio scientists and built into ground breaking Personal Digital Entertainment (PDE) solutions, EAX is changing the way audio is experienced.

EAX offers advanced, interactive audio and high-definition sound to a new generation of portable audio appliances, audio applications, and internet service

With its five compact, amplified satellite speakers and separate subwoofer, the MegaWorks 510D is an ideal 5.1 entry-level EAX speaker system for your home theater entertainment. With it, you will experience exceptional 3D positional and 5.1 audio for movies and games, when used with the powerful Sound Blaster Live! series of audio cards.

For more information on EAX, be sure to visit EAX.creative.com.

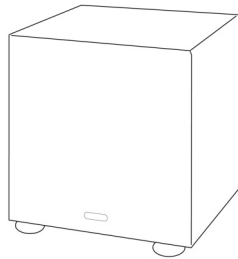
Contents

Inventory	8
Speaker Placement.....	9
Volume Control	10
Stand Removal and Installation	11
Satellites on Flat Surfaces	11
Mounting Satellites on Walls.....	11
The Center Stand	12
Audio Source Connection - Analog	13
Audio Source Connection - Digital	14
Speaker Connections	15
Volume Control and Power Connections	16
Tonal Adjustments.....	16
Controlling Noise and Distortion.....	17
Specifications.....	17
Limited Hardware Warranty	18
Technical Support	18

Inventory

☐ Examine each unit carefully. If anything is missing or damaged, do not install or use the system. Contact the retailer where the system was purchased.

☐ Save the carton and its inserts in case you need to ship or move your *MegaWorks 510D* system later.



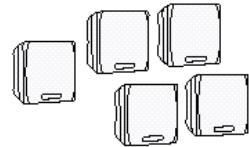
Subwoofer



AC Power Cable, UK



AC Power Cable, Europe



Satellites (5)



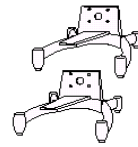
Volume Control



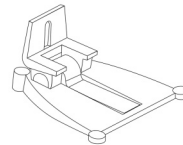
Triple Stereo Line In Audio Cable



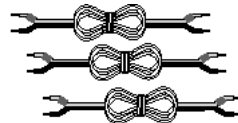
Digital Cable (3-channel miniplugs)



Desktop stands (installed on satellites, removable)



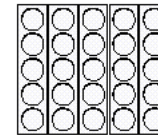
Center Stand



3m Speaker Cable (3)



5m Speaker Cable (2)



Strips of transparent Rubber Pads (20 pads total)

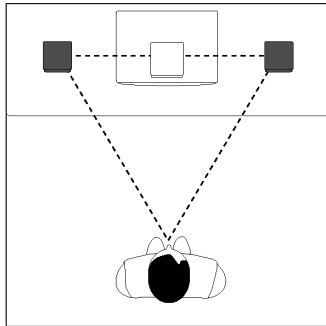


Screws and plastic anchors (5)

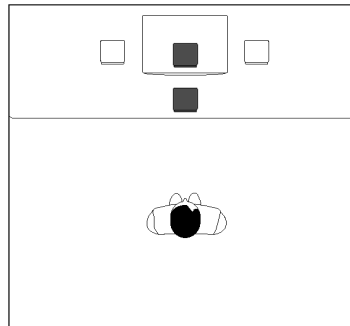


Hook and loop fasteners for Volume Control and Monitor Stand

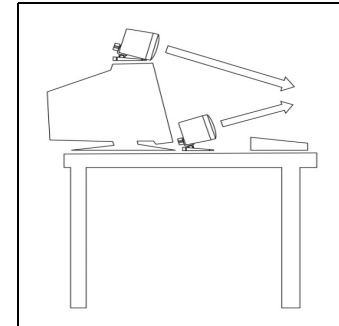
Speaker Placement



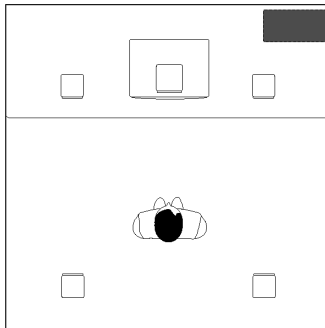
Place the front satellites to the sides of your monitor.



Use the Center Stand to place the center satellite either in front of or on top of your monitor.

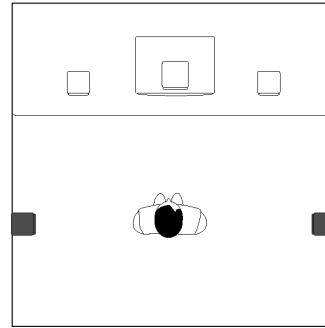


Adjust the center Stand down for monitor placement, up for desktop placement

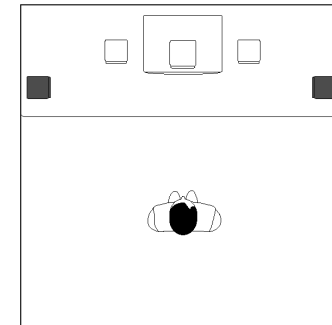


For the strongest bass output, place the subwoofer on the floor in a corner.

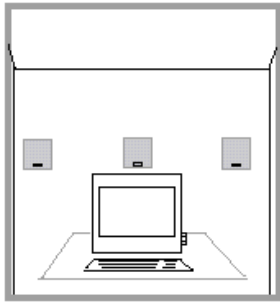
Note: The subwoofer is not magnetically shielded. Do not place it near your monitor. Don't store magnetic media within 8 inches of it.



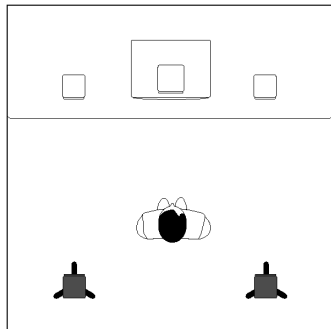
Rear satellites mounted on walls beside you.



Rear satellites placed at the extreme corners of your desk.



You can also mount the front three satellites on a wall

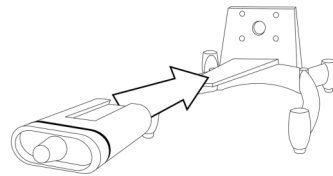


Rear satellites mounted on floor stands. (if purchased)

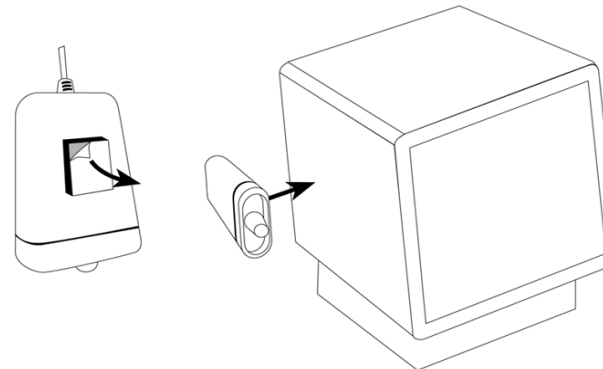
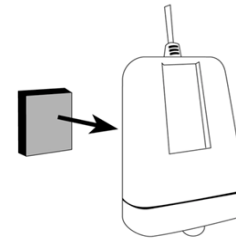
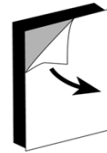
Note: Floor stands for the rear satellites are available from www.creative.com

Volume Control

The Volume Control can be mounted in either of the Desktop Stands.

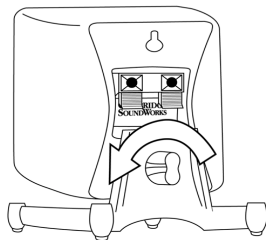
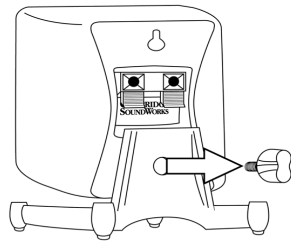


If you wall-mount the front satellites, you can attach the Volume Control to a convenient surface with the hook & loop fastener provided.



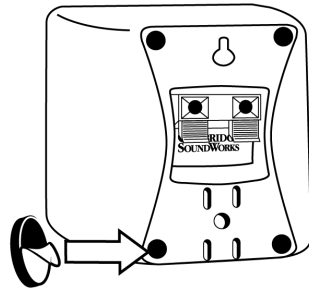
Stand Removal and Installation

Unscrew the thumbscrew to release the satellite from the Desktop Stand. Reverse the process to install a center Stand.



Satellites on Flat Surfaces

Before placing the satellites on a flat surface, apply the rubber pads to the bottom of the satellite.



Mounting Satellites on Walls

Mount satellites only on walls that are structurally sound. Position front satellites at or slightly below ear level. Position rear satellites to the sides and a little above ear level.

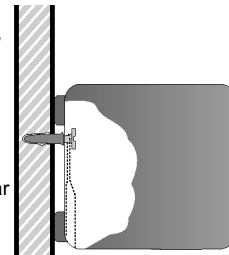
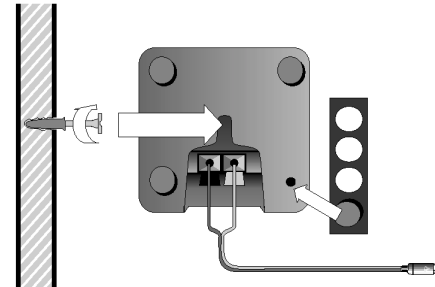
1 Apply rubber pads on the back of each rear satellite.

2 Drill a hole about 2 cm (1 inch) deep into wall.

3 Tap plastic anchor into hole until it is flush with wall.

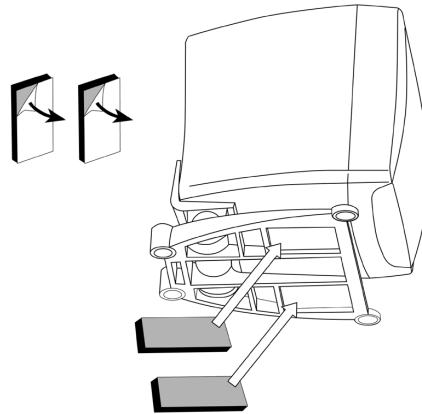
4 Screw a M5 x 25 mm screw into anchor, leaving about 0.5 cm (1/4 inch) protruding.

5 Slip keyhole slot of each rear satellite onto protruding screw.



The Center Stand

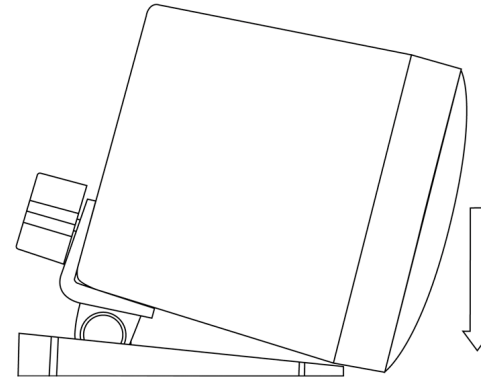
To adjust the satellite/Center Stand assembly's vertical attitude, grip the satellite in one hand and the stand base in the other.



On Top of the Monitor

For safety and convenience, adhere the base of the Monitor Stand to the top of the monitor using the two strips of hook and loop fasteners.

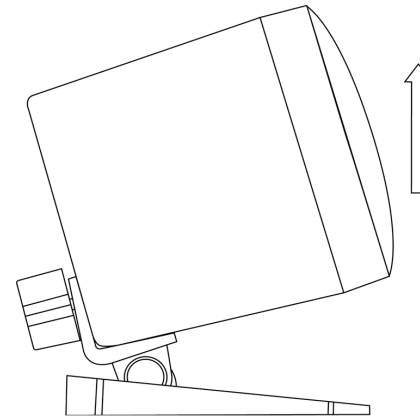
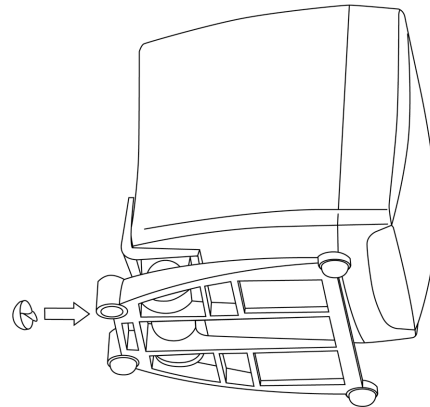
Adjust the satellite to point horizontally or downward.



In Front of a Monitor

To prevent movement on the desktop, apply the soft feet as shown.

Adjust the satellite to point upward.

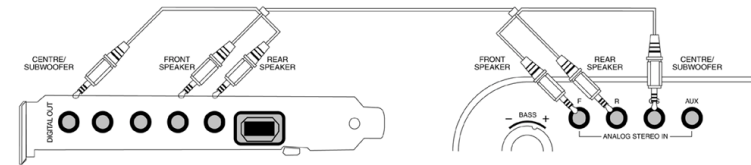


Audio Source Connection - Analog

Use the triple cable

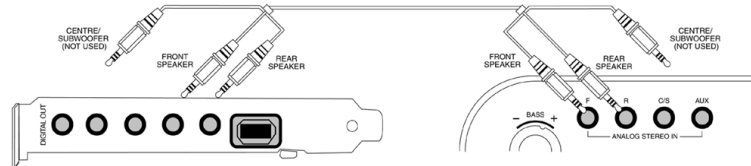
A To Sound Blaster Audigy/Live! 5.1 series sound card

- Front, rear and Center/subwoofer miniplugs.
- 5.1-channel output is produced.



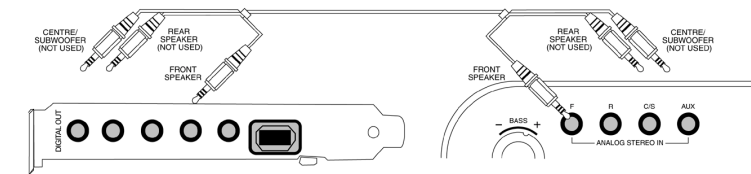
B To 4-channel sound card

- Front and rear miniplugs.
- 4.1-channel output is produced.



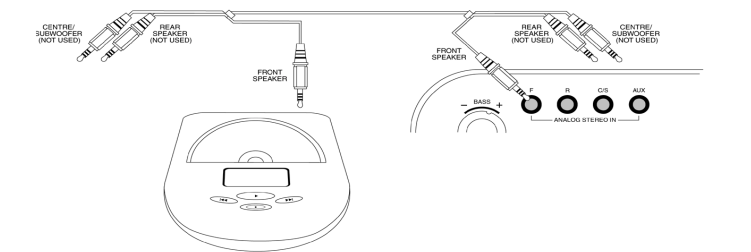
C To 2-channel sound card

- Front miniplug only.
- 2.1-channel output is produced.



D To 2-channel stereo player

- Front miniplug only.
- 2.1-channel output is produced.

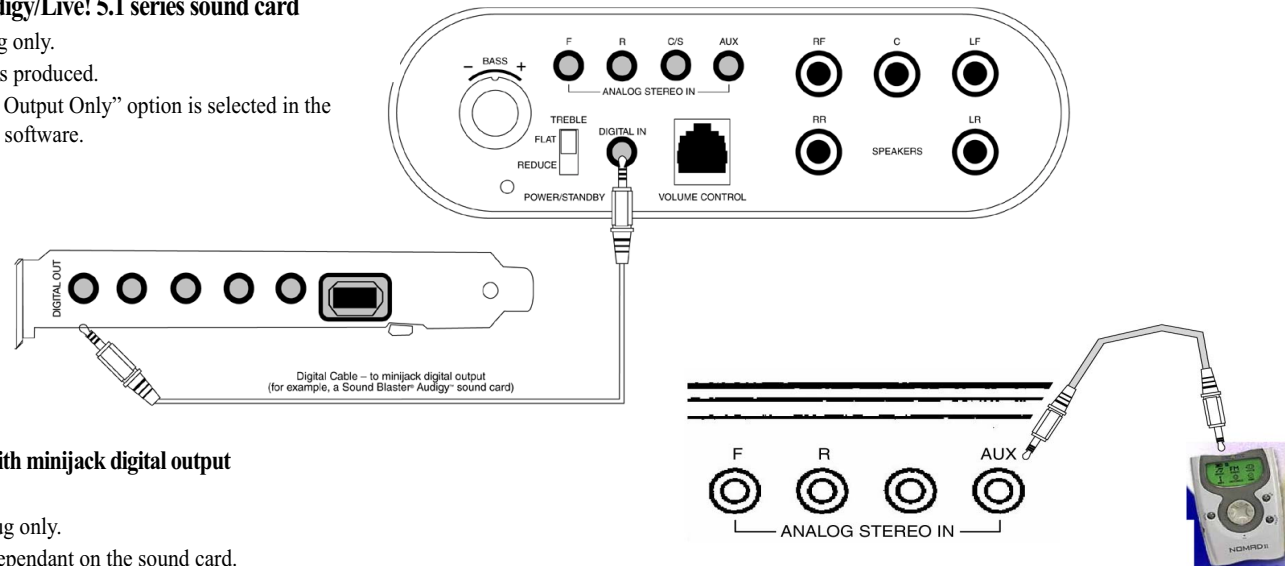


Audio Source Connection - Digital

Use the Digital cable

To Sound Blaster Audigy/Live! 5.1 series sound card

- Digital Out miniplug only.
- 5.1-channel output is produced.
- Be sure the "Digital Output Only" option is selected in the sound card's control software.



To other sound cards with minijack digital output

Use the Digital cable

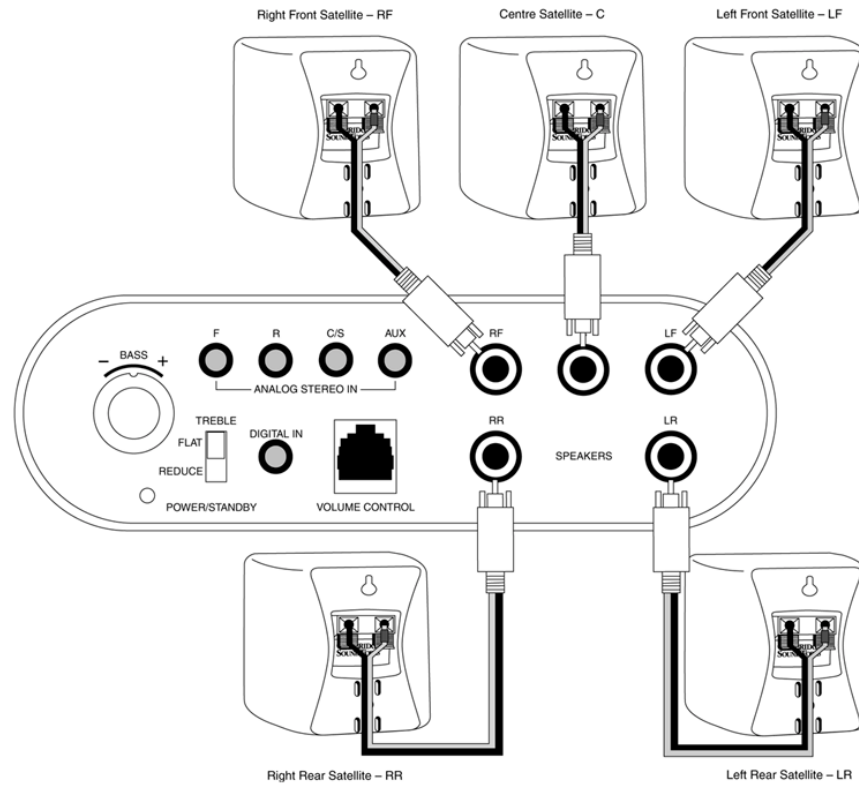
- Digital Out miniplug only.
- Channel output is dependant on the sound card.

To a digital output that is not a minijack:

Use an adapter (not provided) to convert the program source's digital output to a 3.5 mm minijack, then connect to Digital In. The most common output type would be an RCA jack. Use a mono RCA plug to mono minijack adapter.

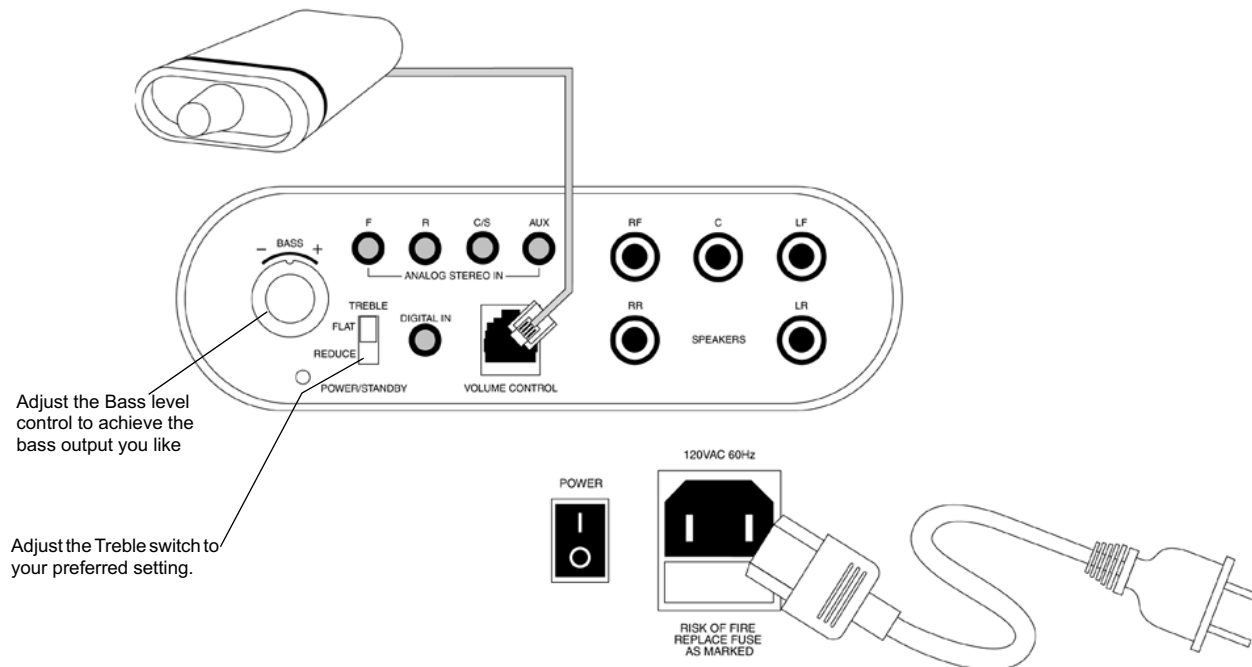
A second audio program source can be mixed with the main program (analog or digital) when connected to AUX. For a source with a 3.5mm stereo minijack output (like a headphone or line out jack on an MP3 or CD player), use a 2-meter signal cable with a 3.5mm stereo miniplug at each end. Other sources may need a cable with a 3.5mm stereo miniplug and two RCA plugs or a 3.5mm stereo miniplug and a 3.5mm stereo minijack.

Speaker Connections



Volume Control and Power Connections

Tonal Adjustments



Controlling Noise and Distortion

MegaWorks 510D has moderately high input sensitivity, so it may amplify the hum and hiss inherent in some audio program sources (more common in analog rather than digital sources).

Any noise is not due to a fault in the speaker system. You can minimize background noise as follows:

Use the MegaWorks 510D volume control as your master level control. Examine your computer's sound control software (Mixer program in Sound Blaster software). Turn off any inputs you don't need (Microphone, for instance). Set the remaining input volume controls to about 70% of their overall scale.

Adjust the sound control program's master output level so that the MegaWorks 510D reaches a comfortably loud output level when the control is set straight up (12 o'clock).

Specifications

MegaWorks 510D

Six-Channel Amplifier

Satellite amplifiers, each of five:
60 watts RMS per channel at less than 0.1% total harmonic distortion at 1 kHz.

Subwoofer amplifier:

150 watts RMS at less than 0.3% total harmonic distortion at 100 Hz.

Amplifier signal to noise:

Digital 98 dB.

Analog 110 dB.

Limited Hardware Warranty

Creative Technology Ltd (“Creative”) warrants the product enclosed herein to be free of defects for a period of twelve (12) months from the date of purchase. In the event of a defect in material or workmanship during the warranty period, Creative, at its sole discretion, will either repair or replace the defective product when the defective product is returned to Creative by the owner as further outlined herein. The remedy for this breach in warranty is limited to servicing or replacement only and shall not cover any other damages, whatsoever.

CREATIVE SPECIFICALLY DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY, NON-INFRINGEMENT AND FITNESS FOR A PARTICULAR PURPOSE. WITH RESPECT TO THE USE OF THIS PRODUCT, IN NO EVENT SHALL CREATIVE BE LIABLE FOR ANY LOSS OF PROFIT OR ANY COMMERCIAL DAMAGE, INCLUDING BUT NOT LIMITED TO SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR OTHER DAMAGES. Some states/countries do not allow the exclusion of limitation of liability for consequential or incidental damages, in which case the above limitation may not apply to you.

Creative makes final determination whether such product is defective. You must deliver the product with a return material authorization (RMA) number and a dated proof of purchase. To receive an RMA number, contact Creative’s Technical Support. If Creative’s Technical Support verifies the product is defective, the Return Material Authorization Department will issue an RMA number to note on the outer package of the product being returned.

Creative cannot accept any product that does not include an RMA number on the package. You must use the original container (or the equivalent), pay any shipping charges, and assume the risk of damages or loss in transit. Creative may use new or reconditioned parts, and any replaced parts, or product become the property of Creative.

Creative warrants the repaired or replaced product to be free from defects in material and workmanship for the remainder of the initial warranty period.

Technical Support Inside USA, Canada and Latin America

Visit our online help websites for help with installation, answers to frequently asked questions, or troubleshooting tips. Our websites hold a wealth of information as well as up-to-the-minute software and driver upgrades.

<http://www.americas.creative.com/support/>

For comments or questions regarding our Technical Support, you can also contact us at the following address:

Creative Labs Inc.

Technical Support

1523 Cimarron Plaza

Stillwater, OK 74075

If after consulting our online help, you still have an installation question on a Creative product, you may contact us by the following numbers (please have your system hardware and operating system configuration information and Creative product model and serial numbers available for the call): Telephone (405) 742-6622.

Technical Support Inside Asia

To reach Technical Support via the Internet, visit our website at:

<http://www.creative-asia.com/support/>

For comments or questions regarding our Technical Support, you can also contact us at the following address:

Creative Technology Ltd.

Technical Support

31 International Business Park

Creative Resource

Singapore 609921

If after consulting our online help, you still have an installation question on a Creative product, you may contact us by the following numbers (please have your system hardware and operating system configuration information and Creative product model and serial numbers available for the call):(65) 895-4100, telephone and (65) 569-6640 FAX. Our operating hours are (Singapore Time): Mon-Fri 9:00 A.M.-6:00 P.M., Sat-Sun & Public Holidays closed.

C A M B R I D G E[®]
SOUNDWORKS

311 Needham Street, Newton MA USA 02464
1-877-567-4434 Fax: 617-527-3194
www.cambridgesoundworks.com
or e-mail us at info@cambridgesoundworks.com

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