

To Achieve Greatness, You Need to Have Backbone

Introducing the Monster Power Backbone

To achieve serious home theater you need stable, clean power with lots of headroom. Like the rhythm section of your favorite band, this is “the backbone” of your audio video system. Without a proper backbone, your electronics won’t be able to achieve all of the performance you paid for. The Monster Power Backbone delivers serious home theater with four powerful components: Monster’s AVS 2000 Automatic Voltage Stabilizer™ corrects voltage irregularities and provides stable power. Monster’s HTPS 7000 Home Theater Reference PowerSource™ filters “dirty” AC power and provides clean power for better sound and picture. Monster Home Theater Music™ Reference Power Amplifiers provide all the power needed to drive your speakers without distortion or noise, even at the highest playback levels. You’ll hear every nuance of your favorite movies and music, the way the director or artist intended you to hear it. To learn more about the Monster Power Backbone, or the importance of high performance cables, please visit: www.MonsterPower.com and www.MonsterCable.com.

MONSTER POWER® AMPLIFICATION

Monster Home Theater Music™ Reference Power Amplifiers Feature:

EXCLUSIVE MONSTER MIRRORED AMPLIFIER TECHNOLOGY (MMAT™)

- *Outperforms ordinary amplifiers by ensuring lower distortion and greater clarity, even at maximum volume levels.*

BALANCED COMPLIMENTARY PUSH-PULL INPUT STAGE

- *This feature is found on only the best amplifiers to deliver the ultra-wide bandwidth performance necessary for the best reproduction of high-resolution DVD-Audio and Super Audio CD formats.*

SEPARATE POWER SUPPLIES

- *Unlike AV receivers that may use only one power supply that can cause power sags, Monster Power amplifiers provide separate toroidal power supplies ensuring optimal power delivery even when all channels are driven simultaneously.*

LOADS OF POWER

- *Ordinary AV receivers or HTIBs (home theater in a box) don't have the power necessary to reproduce the audio the film's director intended. Monster Reference Home Theater Music Power Amplifiers deliver up to 250 watts of continuous power, all channels driven, into 8 ohms—400 watts continuous, all channels driven into 4 ohms—and up to 900 watts per channel peak power.*

EASY-TO-READ DIGITAL MONSTER TRUE POWER METERS™

- *Fast, peak-reading digital power meters display ACTUAL power output and dynamic range.*

BALANCED INPUTS

- *Unbalanced inputs found on most AV receivers are susceptible to noise. Monster Power amplifiers also have balanced inputs to eliminate ground-based noise for cleaner, more accurate sonic reproduction.*

MONSTER CLEAN POWER™

Monster Home Theatre Reference PowerSource™ HTPS 7000

PURE POWER™—THE HIGHEST LEVEL OF MONSTER CLEAN POWER

- *Five separate filters designed to eliminate audio and video graininess and harshness in your home theater system.*

DIGITAL SPECIFIC ISOLATION

- *Filters are tuned to eliminate the higher frequencies of “noise” that are prevalent in digital products today. (DVD Players, CD Players, Digital Satellite, etc.)*

BALANCED POWER

- *Designed to eliminate problems caused by separately grounded audio and video components such as 60-cycle buzz and video “hum” bars.*

MASSIVE 3145 JOULE SURGE RATING

- *Strong enough to handle the most powerful of surges to your delicate home theater system/electronics.*

MONSTER VOLTAGE STABILIZATION

Automatic Voltage Stabilizer—AVS 2000

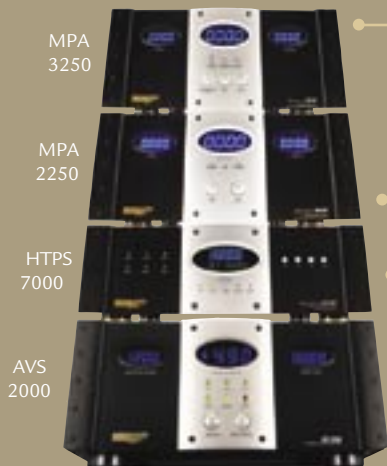
- *Provides the consistent 120 volt output your electronics depend on even when your home's AC power fluctuates anywhere from 80 to 140 volts.*

PROTECTION

- *Automatically protects connected equipment in the event of extended over-voltage. Also protects equipment during post-blackout instability. Safely disconnects connected equipment when voltage falls out of range (80-140v).*

PERFORMANCE

- *Unstable power affects signal to noise ratio, taxes your amplifier's power, shortens product life and forces your TV to struggle to maintain its geometry and alignment.*



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CENTRA™ AUDIO/VIDEO
CONSOLE SUBWOOFER 1000
OWNER'S GUIDE



Noel Lee

A Note From Noel Lee

THANK YOU for purchasing my Centra™ Audio/Video Console Subwoofer 1000. And welcome to the exciting world of M·Design Centra, where high technology never looked this good. Your new Console Subwoofers are designed to perform spectacularly in an ultra-high performance home theater music system, while also handsomely complimenting your home décor.

Unlike conventional subwoofers, when placed inside your Centra Audio/Video Console, your subwoofers are completely hidden. No awkward black cubes to hide or extra floor space required. And with a 250 Watt amplifier, 10-inch front-firing driver, and internal wiring with Monster Cable®, your friends and family won't know what hit them!

This guide outlines how to properly position and hook-up your new subwoofers for the best possible performance. With Centra's Audio/Video Console Subwoofer 1000, thunderous bass is just the beginning. You'll enjoy those thrilling movie action sequences and your favorite music with articulate, incredibly rich low frequency response. Get ready to be entertained, M·Design style.

Noel Lee
Head Designer, M·Design

Important Safety Precautions

Please read and observe the following safety points at all times:

Power Sources

- ⚠ Do not plug your Console Subwoofers into a power outlet other than a properly grounded 110 volt AC outlet. (For better results, Monster Power voltage stabilization, surge protection and power conditioning products are highly recommended).
- ⚠ Power surges and spikes can enter your subwoofers through the AC Power Cord and damage your main A/V system via the interconnect cable. We highly recommend using a surge suppressor designed for subwoofers for each amplified subwoofer in your system.

Power Cord Safety

- ⚠ Do not create a trip hazard with the power cord. When routing the AC power cord, do not place it near heavy foot traffic areas (e.g., hallways, doorways, kitchen floors).
- ⚠ If a power cord begins to rip or fray—exposing the internal wiring or shielding—disconnect it from the power source and discontinue use of the subwoofers immediately until replaced.

Avoiding Electrical Shocks

- ⚠ Do not operate Console Subwoofers if liquid of any kind is spilled on, or inside the unit.
- ⚠ Do not operate Console Subwoofers in places where they might be exposed to water (e.g., patio, bathroom, kitchen).

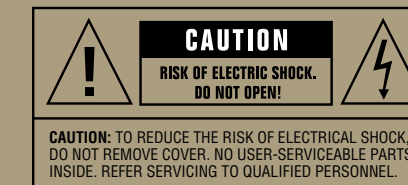
Storm Precautions

- ⚠ In the event of a lightning storm, immediately disconnect all A/V equipment from their AC outlets, including your Console Subwoofers

Exposure To Heat

- ⚠ Do not expose your Console Subwoofers to direct sunlight or place near wall heaters, space heaters, or any enclosed space prone to temperature increases.

No User Serviceable Parts Inside

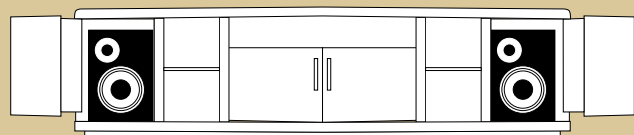


If, for any reason, your Console Subwoofers are not operating properly, do not disassemble or remove any part of the unit for repair. Unplug the subwoofer and consult the Warranty sheet included with your product.

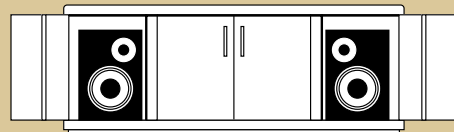
For more information, visit: www.MDesignLife.com.

Room Placement Guidelines

Centra Audio/Video Console 800



Centra Audio/Video Console 600



Place Console Subwoofers as shown behind the acoustically transparent doors on Centra Audio/Video Consoles. Be sure that you orient Subwoofers so that the driver and port faces forward and the connection panel is to the rear.

Connections to Your Amplifier or Receiver

Connecting Speaker Cables to Your Audio/Video Console Subwoofer 1000

Recommended Connection:

Line Level Inputs

The simplest way to hook-up a subwoofer is by connecting the receiver's line level "Sub Out" directly to the sub's "Line Level In." The subwoofer then receives only bass frequency information, resulting in cleaner, more natural bass.

Tip: Be sure to use a high performance Monster Bass cable made to accurately reproduce bass frequencies over long lengths.



"Pass-Through" Output to Additional Subwoofer or M-Design Action Couch™

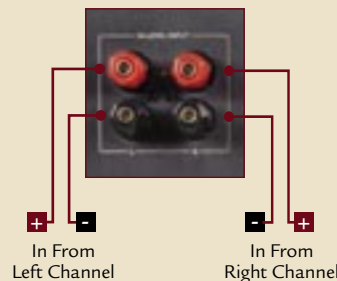
In From Processor or Receiver's "Sub Out"

Alternate Connection:

High (Speaker) Level Inputs

If your receiver does not have a line level "Sub Out" jack, connect the receiver's left and right speaker channels to the subwoofer's "High-Level Inputs."

Tip: Be sure to accurately connect left and right channels, plus + (red) and - (black) polarity connections respectively.



In From Left Channel

In From Right Channel

"Crossover" Control

The crossover control allows adjustment of the subwoofer's frequency response to better match and balance with your main speakers, producing smoother, fuller range audio. To properly adjust this control, see "Subwoofer Calibration" section.

"Gain" Control

Subwoofer gain should be adjusted so the bass volume matches the loudness of your main speakers. If the bass sounds too "boomy," reduce the gain. If low frequencies sound lost, increase the gain.

Tip: You can also use a pink noise test disc and a dB meter to test loudness and match the sub volume to your speakers.

"Mode" Switch

Auto (recommended):

The subwoofer amplifier senses audio signal and automatically switches "on" (automatically switches "off" after 15 minutes without signal).

On: Subwoofer amplifier is "on" all the time.

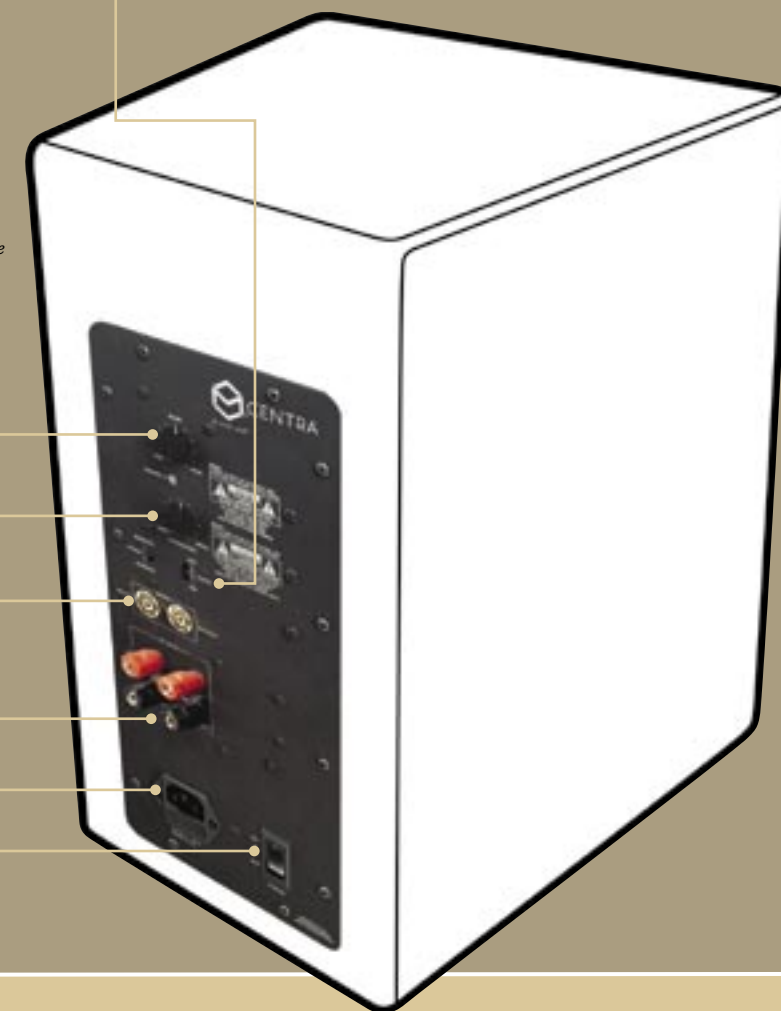
Off: Subwoofer amplifier is "off."

Fused Power Outlet

Connect supplied power cord to properly grounded 110 Volt AC outlet. Includes integrated fuse for amplifier production. Replace only with fuse of similar type and rating.

Master "On/Off" Switch

Be sure this is "on". See "Mode" switch above.



Centra Audio/Video Console Subwoofer 1000 Calibration

After your full-range speakers and subwoofers are placed in position and connected to your receiver or processor, your system will need to be calibrated and balanced.

Items Needed for Calibration

- Owners manual for your receiver/processor
- Sound Pressure Level (SPL) Meter also known as a dB meter (widely available at Radio Shack® stores)
- Test CD or DVD.
- System Set-up CD or DVD with a “pink noise” track (optional)

Before Proceeding

There are several options in setting up a multi-channel system. For the best system performance, you should base your setup on the different types of multi-channel playback of which your system is capable.

Please note that if your system contains sources for multi-channel audio, the full-range speakers should be configured within the A/V receiver or processor setup menus as “FULL RANGE WITH A SUBWOOFER.” This configuration will allow you to get the highest performance from your M·Design system.

Before proceeding with subwoofer and speaker calibration or balancing, please read through the setup section of your A/V receiver or processor manual to familiarize yourself with how these settings are selected and activated.

Calibrating Centra Audio/Video Console Subwoofers

Your pair of Centra Component Center Subwoofer 1000, and all of the subwoofers in your system must be “balanced.” Although your A/V receiver or processor may feature an internal subwoofer level adjustment, any change of this overall setting will affect all subwoofers in the system simultaneously. In order for subwoofers to produce thrilling low frequency effects and music, they must be properly “balanced” to work together—driving the same output from each subwoofer. This is accomplished by calibrating each subwoofer individually to work together as a system.

1. Turn “off” the receiver or amplifiers to the subwoofers and speakers.
2. Turn the subwoofer Master Power Switch to “on” and the Mode Switch to “auto.”
3. Begin with the Crossover Control and Gain Control knobs in the 12 o’clock position.
4. Turn on the system (including receiver or amplifiers) and make sure that the main speakers are all disconnected or turned off. The subwoofers should be the only drivers receiving signal. If you have multiple Centra subwoofers, only send signal to one and disconnect the rest.
5. Any subwoofer or LFE (Low Frequency Effects) settings in your receiver should be set to ± 0 dB.
6. Play a favorite 2-channel (stereo) music track.
7. Slowly turn the Crossover Control knob counter-clockwise until no vocals are heard from the sub. This is the best position for subwoofer output since subwoofers should operate below the vocal range. Write down this setting and set all subwoofers in the system to match the setting if using the same model subwoofer. If using different models, repeat this step for each one.

8. Reconnect one of the main front speakers.
9. Adjust the Gain Control knob until the bass level is to your liking. A properly calibrated subwoofer should blend in well with the sound from the main speakers.
10. Place a SPL (dB) meter about one foot from the subwoofer being calibrated. Play the stereo music track again and write down the dB measurement from the SPL meter.
11. Turn off the subwoofer that was just calibrated and set the Gain Control on each other subwoofer in the system, one by one, to match the dB measurement using the same method in the previous step.
12. All individual subwoofer output levels are now calibrated. If overall adjustment is still needed, use the “subwoofer output” settings in the receiver or processor. See your A/V receiver or processor owner’s manual for details.

Calibrating the Rest of the System

Now that the subwoofer volume levels are balanced, the channel volume levels in your A/V receiver or processor can be set. Follow the instructions included with your receiver or processor to set these levels. Please note that if during calibration you hear too much bass for your liking, repeat the subwoofer calibration procedure again until the level is set to your satisfaction. Make sure that the subwoofers maintain balance between themselves.

Optional Enhancements to Create the Best Possible Home Theater Experience

(each sold separately; visit www.MDesignLife.com for details)

Centra StreamLine Towers, Center and Surrounds

Big, powerful bass is perfectly complimented by the Centra StreamLine system of towers, surrounds and center channel speakers. Matched by design and performance Centra StreamLine give you the “Wall of Sound” dynamics that bring passion and energy to home theater audio and multi- channel music.



Centra™ M·Bass 1000 High Performance Subwoofer

Complete your ultra-high performance home theater music system with Centra M·Bass 1000 Subwoofers. Featuring a rigid 10” cone and ultra-long 3” voice coil—driven by powerful 500 Watt amplifier—you’ll enjoy all the clean, tight bass your movies and music have to offer.



Monster® Speaker Cable and Interconnects

For over 25 years, Monster® has painstakingly designed and engineered speaker cables and interconnects that are used worldwide by audiophiles and home theater enthusiasts for quality audio hookup between components and speakers. This technology is available to you, so that you can get the best possible performance from your home theater.



Monster Power®

Protect and optimize the performance of all your audio and video components with Monster Power voltage stabilizers, power conditioners and amplifiers. Not only will you save your components from potentially hazardous spikes and surges, you’ll also enhance their ability to perform by providing them with stable, clean power. View Monster’s ultimate Power Backbone system on the back cover of this guide.

