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# User's Guide

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# *FourPointSurround* *FPS1000*

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# IMPORTANT SAFETY INSTRUCTIONS

**READ INSTRUCTIONS** - All safety and operating instructions should be read before the *FourPointSurround FPS1000* 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 *FourPointSurround FPS1000* 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 sub-

woofer 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 and 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 *FourPointSurround FPS1000* 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:

- When the power-supply cord or plug is damaged.
- If liquid has been spilled, or objects have fallen into the subwoofer.
- If the subwoofer has been exposed to rain or water.
- If the subwoofer does not operate normally by following the operating instructions; or exhibits a distinct change in performance.
- 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 *FourPointSurround FPS1000* system, ask the service technician to perform safety checks to determine that the *FourPointSurround FPS1000* system is in proper operating condition.

**WALL OR CEILING MOUNTING** - The *FourPointSurround FPS1000* satellites should be mounted to a wall or ceiling only as recommended by Cambridge SoundWorks.

**IMPORTANT**



The lightning flash with arrowhead, within an equilateral triangle, is intended to alert the user of the presence of uninsulated "dangerous voltage" within a product's enclosure that may be of sufficient magnitude to constitute the risk of electric shock to persons.

**WARNING**

**SHOCK HAZARD  
DO NOT OPEN**

TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE SUBWOOFER'S COVER. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



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 this product.

**READ AND HEED IMPORTANT SAFETY WARNING  
ON BOTTOM OF SUBWOOFER ENCLOSURE**

**CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, INSERT FULLY.**



**WARNING:  
TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.**

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# Safety & Regulatory Information

## The following sections contain notices for various countries:

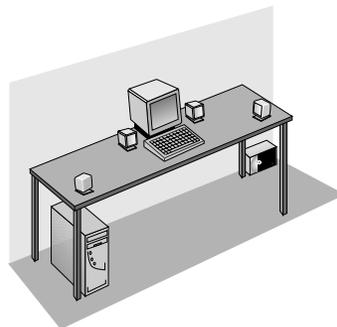
**CAUTION:** This device is intended to be installed by the user in a CSA/TUV/UL certified/listed IBM AT or compatible personal computers in the manufacturer's defined operator access area. Check the equipment operating/installation manual and/or with the equipment manufacturer to verify/confirm if your equipment is suitable for user-installed application cards.

## Modifications

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

## Compliance

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



# Introduction

**T**hank you for purchasing  
FourPointSurround™ FPS1000.

FourPointSurround FPS1000 lets you experience the full potential of the multichannel sound encoded in today's latest computer software. We think you will find it adds an exciting new dimension to computer sound and gaming.

# Inspecting For Damage

Examine each speaker unit carefully for signs of shipping damage. If there is any damage, do not install the system and follow the procedure outlined in the section "If You Have a Problem."

All the items shown in the illustration should be included. If anything is missing, notify the retailer.

Save the carton and its inserts in case you need to transport your PCWorks FourPointSurround FPS1000 system later.

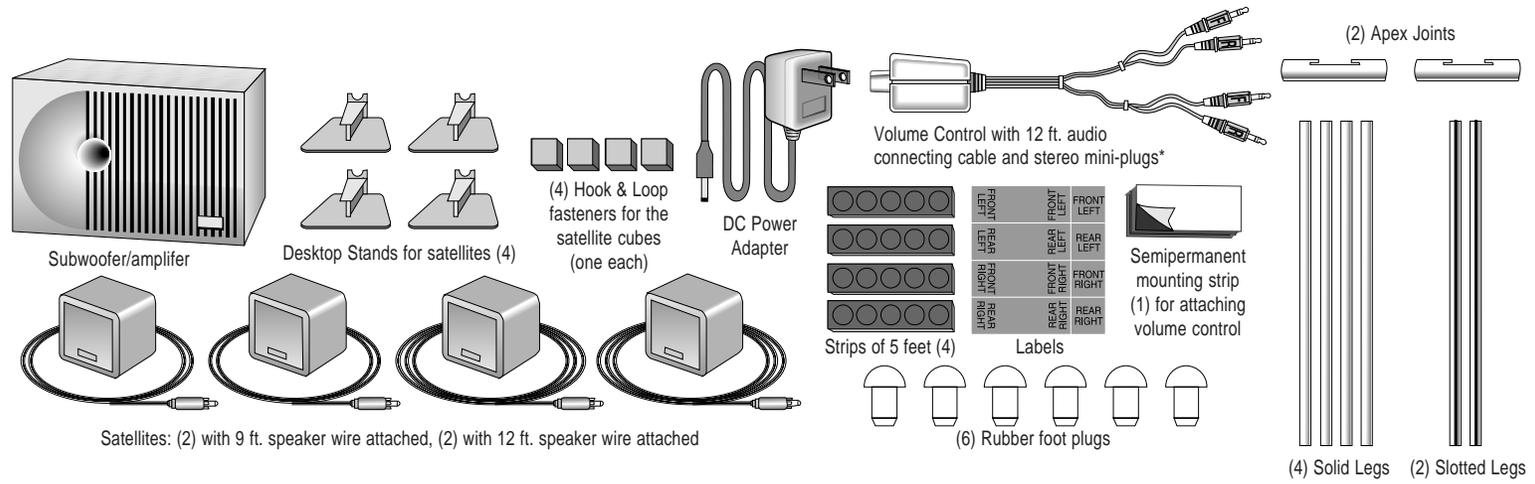
# Overview

FourPointSurround FPS1000 consists of a powered subwoofer, four satellite speakers and a volume control. All five speakers are magnetically shielded.

The subwoofer is designed to sit on the floor beneath a desk, and sounds best in this position. The satellites used for the front left and right channels should flank the computer monitor. The satellites used for the rear left and right channels can be placed on the desktop, on floor stands, or attached to other sites with hook and loop fasteners.

# Installation Sequence

1. Read through the instructions before installing the speakers. The instructions assume you have a 4-channel sound card, one that supports Direct Sound 3D and has front and rear stereo outputs. If your sound card has a single stereo minijack line output, please read the note under "Volume Control" on page 12.
2. Place the satellites and the subwoofer at appropriate sites near your computer. Attach the stands, if necessary.
3. To help you identify each satellite's channel later, apply the appropriate preprinted label to the rear of each satellite.
4. Connect the four satellites to the back of the subwoofer enclosure. Leave all the wires accessible.



# Speaker Placement

5. Connect the Volume Control to the subwoofer and then to the sound card line outputs.
6. Connect the power supply adapter.
7. Listen to the system and adjust the Subwoofer Level control for the most pleasing bass output.
8. You may wish to experiment with satellite placement briefly before concealing the connecting wires and making the installation more permanent.

The front left and front right satellites should be placed to the sides of the monitor. When placing satellites on the desktop, install the desktop stands. If you wish to save desktop space, use the hook and loop fasteners to attach the satellites to the sides of the computer monitor (see page 15).

If you are lucky enough to have side walls close to your listening position, excellent placement for the left rear and right rear satellites is alongside or behind your listening position, slightly above ear level (use the hook and loop fasteners, see diagram A). Do not be concerned if this is not practical, since any rear satellite placement to the left and right side of the listening position will

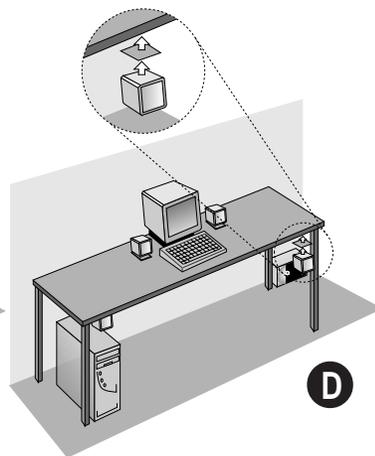
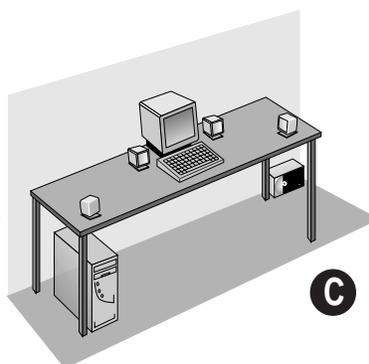
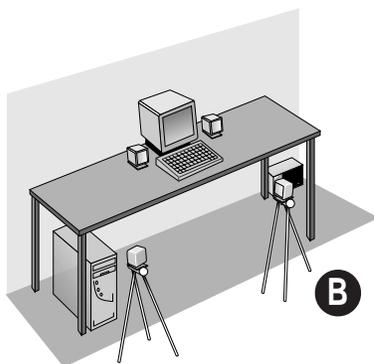
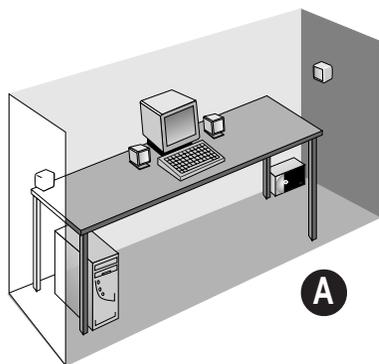
provide strong directional and surround effects.

The rear satellites may be installed on their convenient floor stands (see diagram B). When listening, the stands should be positioned to the immediate left and right of your listening position. The stands are small enough to be stowed underneath or alongside a desk when not in use.

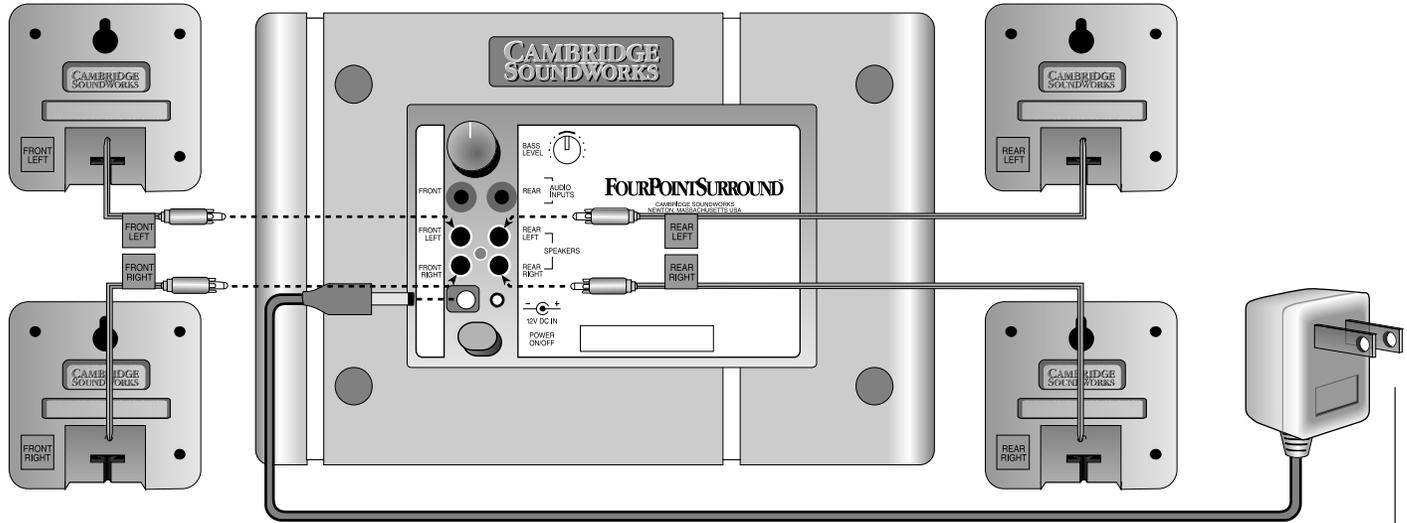
The rear satellites may also be placed in any convenient sites alongside the listener, including sites slightly forward of the listening location. The rear satellites do not have to be at exactly the same height, nor at the same height as the front satellites. Try the extreme corners of a desk using the desktop stands (C) or

attach the rear satellites under a desktop or at the sides of a desk using the hook and loop fasteners (D).

The subwoofer does not contribute to directional sound effects. Its optimum position is on the floor against the wall. The closer the subwoofer is to the corner, the stronger the maximum bass output. Alternately, it can be placed on a shelf or other sites, but its maximum output will be reduced.



# Speaker Wiring Diagram



Your plug adapter may vary depending on your country

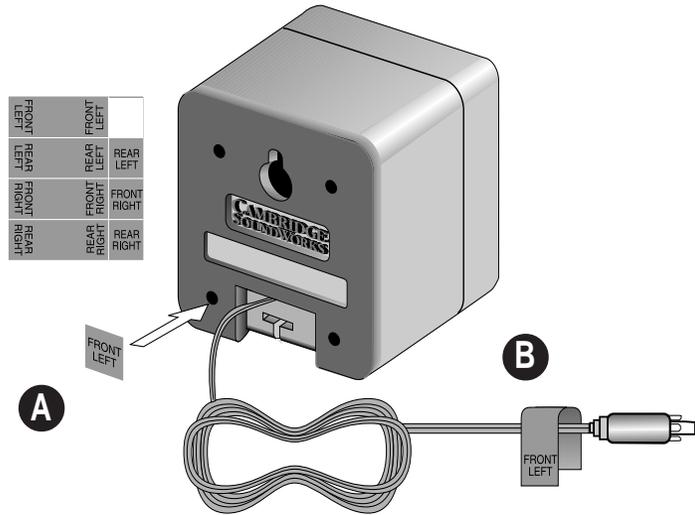
# Satellite Connections

One pair of satellites has 9 foot (3 meter) cables and one pair has 12 foot (4 meter) cables. Typically, the satellites in the rear will require longer cable lengths, but the satellites are otherwise identical. If you need extra cable length for the front channel satellites, use the ones with longer cable there instead.

A panel of eight self-adhesive labels is provided to identify each satellite. To start, apply the small, square “FRONT RIGHT” label to the back of a satellite (see diagram A). Then wrap the remaining, longer “FRONT LEFT” label around the satellite cable just behind the plug (see diagram B).

Insert the satellite’s plug into the corresponding output jack on the subwoofer (see Speaker Wiring Diagram).

Repeat the process for the remaining three satellites.

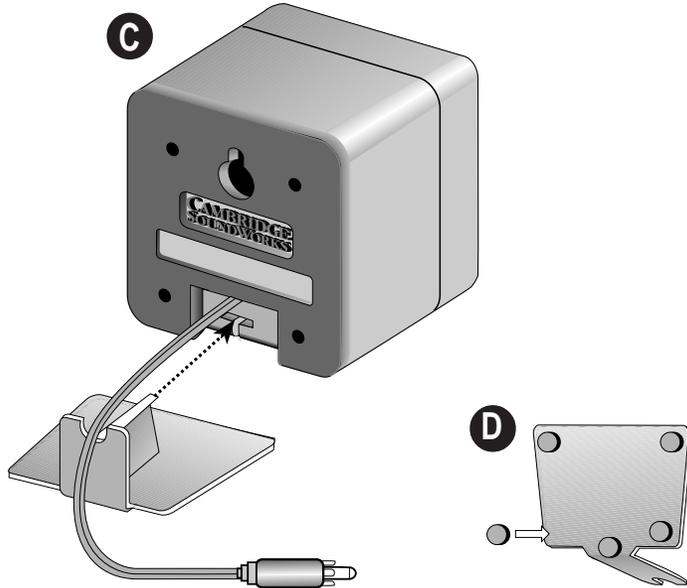


## Attaching The Desktop Stands

For most applications, the satellite speakers should be used with their desktop stands. Install each stand by inserting it into the “T” shaped socket in the back of each satellite. Make sure to feed the wires through the cut-out in the top of the desktop stands (see diagram C).

For desktop placement, apply the

five self adhesive feet to the base of the desktop stands. If you wish to install the rear satellites in the floor stands, do not apply the self adhesive feet to the base of their desktop stands (see diagram D).



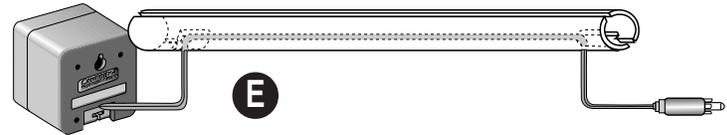
## Attaching The Floor Stands

The rear satellites (with their desktop stands attached) may be installed in their floor stands.

1. One leg of each floor stand has a full length slot, with short notches opposite the slot at each end. Insert a satellite cable inside one of these legs by feeding it down the length of the full length slot. At each end, feed the cable through the short notches (see Diagram E).
2. Ensure there are no feet attached to the satellite's desktop stand. Insert the satellite end of the leg/cable assembly into the middle socket of the apex joint. Make sure the satellite cable exits through the short notch and not the full length slot (see Diagram F).
3. Insert the two solid legs into the outside sockets in the

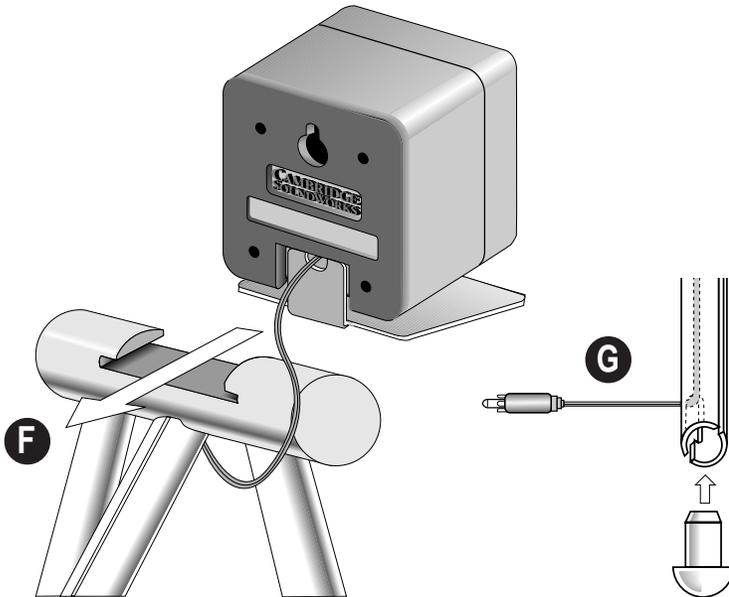
apex joint.

4. Slide the back of the satellite's desktop stand into the front of the slot in the apex joint. The slot's front is the side further away from the rear leg socket. Make sure the stand is securely pressed into the slot (see Diagram F).
5. At the base of the rear leg, gently pull on the satellite cable to remove any unnecessary slack in the cable.
6. Insert a rubber plug into the base of each leg, taking care to feed the cable out the short notch in the rear leg (see Diagram G).



## Power Supply Adapter

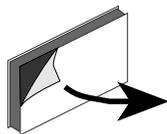
Confirm that the power switch is in the “OFF” position. Insert the power supply’s AC plug into the appropriate receptacle. Insert the small DC connector into the “12V DC IN” receptacle on the back of the subwoofer.



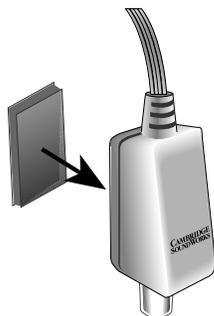


## Mounting The Volume Control

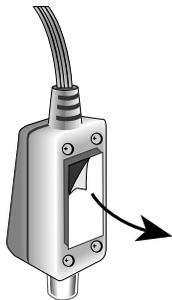
The enclosed mounting strip is semipermanent—it holds well but can be peeled off gently. Be sure that the mounting surface, such as the computer monitor or your desktop, is smooth and clean.



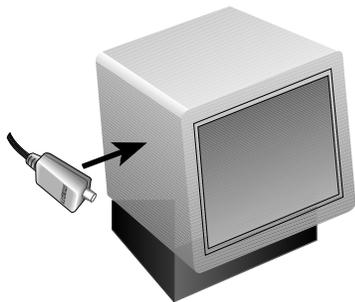
- 1 Remove protective paper from one side to reveal adhesive.



- 2 Press exposed adhesive side firmly against back of volume control.



- 3 Remove remaining paper strip.



- 4 Press control firmly against mounting surface (desktop, keyboard or monitor).

## Adjusting Output Level

In most instances, the FourPointSurround FPS1000 Volume Control will be the most convenient way to adjust the overall playback level. It responds instantly and doesn't require you to pause games or programs. But there are other output level controls present in software to consider.

Versions of Microsoft® and Windows® and most other operating systems offer an on-screen sound level control, while most game programs provide yet another one. For the FourPointSurround FPS1000 Volume Control to perform at its best, these “software” level controls should be set to an “optimum” position and then left alone.

Set any software volume controls to approximately 75% of their maximum output level. This should allow the FourPointSurround FPS1000 Volume Control to achieve the highest output level desired when set to its loudest setting.

If the FourPointSurround FPS1000's maximum output is still not sufficient at the extreme setting of its Volume Control, try increasing one and only one of the software volume controls to increase overall output.

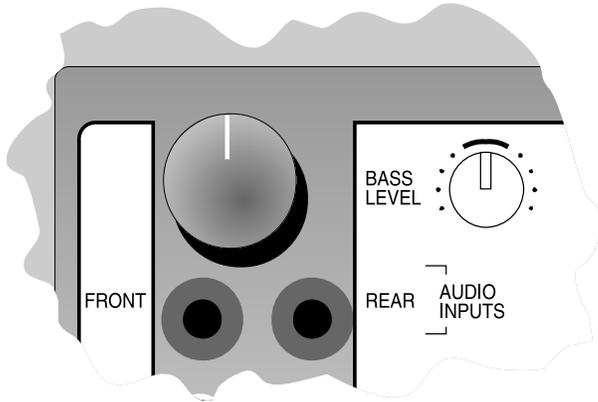
If you find the optimum output level of the FourPointSurround FPS1000 system occurs at too low a setting of its volume control, reduce the setting of one software volume control (preferably the operating system's output level control) to achieve greater control range.

**Note:** Some software volume controls may introduce distortion when set to their maximum level. Experiment to achieve the cleanest sound.

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# Subwoofer Level Control

The output of the subwoofer should be adjusted to suit the listener's taste. Start with the volume control in the 12 o'clock position (see diagram below). After using the system for a little while, adjust the control up or down to fine tune it.



## Important

### Playback Levels

FourPointSurround FPS1000 is intended for individual or small group listening and will achieve surprisingly high output levels. However, playing the system continuously at overly loud, distorted levels on heavy bass program material may cause its internal fuse to blow.

The fuse can be replaced *only* by a qualified representative. To avoid this inconvenience and a possible non-warranty repair charge, reduce the playback volume when the system shows obvious signs of stress, i.e. it sounds “raspy,” “fuzzy,” and/or “muddy.”

# Optimizing The Sound Of Your System

Have a clear line of sight from your listening position to the satellites. This prevents their higher frequencies from being blocked. It is not necessary for each satellite to be aimed directly at the listener.

The relative strength of low bass depends on how close the subwoofer is to intersecting room surfaces. The most bass output results from the subwoofer placed on the floor in a corner. The least bass output results with the unit positioned away from any corners or walls.

Once you have adjusted the subwoofer level control, leave it in that position. It should not be used to compensate for differences in recordings or games.

# Mounting The Satellites

## To a flat surface:

To mount the satellites the side of a monitor or other flat surface, use the self-adhesive “hook and loop” fastener squares.

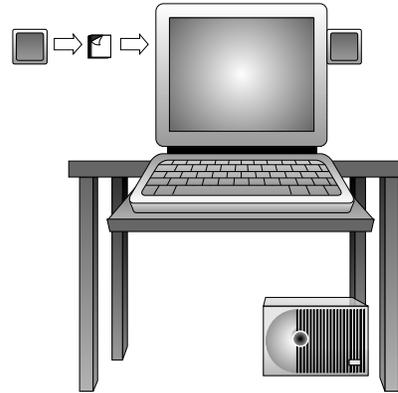
## To the wall:

To wall-mount the cubes on structurally strong surfaces (a wall stud or wood panelling), screw the No. 10 screws into the material. Allow their heads to protrude about  $\frac{1}{4}$  inch to fit into the keyhole slots

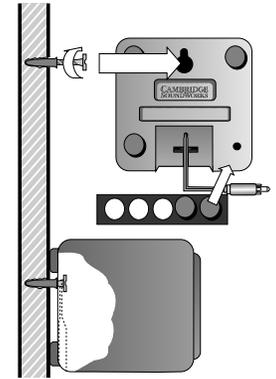
on the back of each cube (as shown below).

The plastic anchors supplied will be needed to secure the screws in most wall surfaces. If so, drill  $\frac{1}{4}$  inch holes in the wall, then tap the anchors into the holes until they are flush with the wall. Then screw the screws into the anchors until they protrude about  $\frac{1}{4}$  inch.

Be sure to apply the stick-on rubber feet to the back of the satellite cubes. This assures an acoustically secure installation.



Hook and loop fastener mounting



Keyhole slot mounting

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# Specifications

## FourPointSurround FPS1000's Five-channel Amplifier Specifications

Satellite amplifier: One channel driven into a 4 ohm load at less than 1% total harmonic distortion, at 1kHz: 3.5 watts RMS.

Subwoofer amplifier: With a 4 ohm load at less than 1% total harmonic distortion, at 100Hz: 10 watts RMS.

These specifications apply to a FourPointSurround FPS1000 operating from a 220 VAC line and a 12V DC power adapter.

# If You Have a Problem

Please retain all contents including packaging and proof of purchase until you are fully satisfied with product.

If you find that you have a problem with your Creative product and believe that it needs to be repaired or replaced, you should verify the purchase date and take the appropriate action as detailed below:

## *Less than 30 days since date of purchase*

Should your store receipt indicate that the product is less than 30 days old, you have the option of calling Technical Support for assistance or returning the full product to the dealer/retailer for a replacement or credit (see Creative Technical Services section for contact numbers).

## *More than 30 days since date of purchase*

First contact European Technical Support (see Creative Technical Services section for contact numbers) to establish the nature of the problem and details on our repair procedure. Creative Labs requires that all returns for repair/replacement must first be issued with an authorisation number.

## *Returning a product for repair*

- Contact Technical Support to receive your authorisation number for repair/replacement of product.
- Technical Support will communicate how to return the product in question for repair/replacement.
- You should only return the hardware item in question and return it to the address detailed by technical support. Please retain all software, accessories and the original packaging.
- Please quote the authorisation number clearly on the outside of the packaging, in which you return the hardware item in question.
- Upon receipt of the faulty item, Creative Labs will process your request and arrange return.

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## Limited Warranty

**Note:** Creative may replace or repair the product with new or reconditioned parts and the faulty parts will become the property of Creative. The warranty period for your repaired/replacement items is 90 days from the date of shipment from Creative, or what is left on the original item's warranty, which ever is longer.

To avoid tariffs when shipping a product to Creative Labs from outside the E.U., you must complete the relevant customs documentation before shipping the product (please allow 30 Days).

Creative Labs (Ireland) Limited ("Creative") warrants to you, the original purchaser only, that the hardware product will be free of defects in materials and workmanship for a period of two years after the date of purchase, or such other period as may be required by applicable law ("Warranty Period"). Creative's entire liability and your remedy will be, at Creative's sole discretion, the repair or replacement (with the same or similar model of any hardware or accompanying item(s) not meeting the "Limited Warranty" explained above that is returned to Creative's authorised distributor or dealer during the Warranty Period with a copy of your receipt.

### What this warranty does not cover

To the maximum extent permitted by applicable law, Creative disclaims all other warranties and conditions, expressed or implied, including the conditions of quality, merchantability or fitness for a particular purpose with respect to the use of this product. Creative also disclaims any obligation to support products for all operating environments - for example, by ensuring interoperability with future versions of software or hardware. In no event shall Creative or its licensors be liable for any indirect, incidental, special or consequential loss or for any lost profits, savings or data arising from or relating to the use of this product, even if Creative or its licensors have been advised of the possibility of such loss.

Specifically, this warranty does not cover failures of the product which result from accident, abuse, misuse, alterations (by persons other than Creative or its authorised repair agents), moisture, corrosive environments, shipping, high voltage surges, or abnormal working conditions. This warranty does not cover normal wear and tear. You are specifically advised to take a backup copy of any software provided with the Creative product for security purposes.

**Note:** This warranty gives you specific legal rights. You may have other rights which vary from country to country. Certain limitations in this warranty are not permitted by the jurisdiction of some countries, so some limitations here may not apply to you.

