



Fostex[®]

PM0.5-Sub MKII

- Reference Manual -

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	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	
<p>CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER - SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.</p>		

"WARNING"

"TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE,"

SAFETY INSTRUCTIONS

1. Read Instructions - All the safety and operating instructions should be read before the appliance is operated.
2. Retain Instructions - The safety and operating instructions should be retained for future reference.
3. Heed Warnings - All warnings on the appliance and in the operating instructions should be adhered to.
4. Follow Instructions - All operating and use instructions should be followed.
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, and the like.
6. Carts and Stands - The appliance should be used only with a cart or stand that is recommended by the manufacturer.



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.

7. Wall or Ceiling Mounting - The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
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, placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
9. Heat - The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
10. 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.
11. Grounding or Polarization - The precautions that should be taken so that the grounding or polarization means of an appliance is not defeated.

CAUTION:

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

ATTENTION:

POUR ÉVITER LES CHOCS ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU' AU FOND.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to 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 to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

12. 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 appliance.
13. Cleaning - The appliance should be cleaned only as recommended by the manufacturer.
14. Nonuse Periods - The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.
15. Object and Liquid Entry - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
16. 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 damaged.
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. The appliance should be situated away from drops of water or spray of water.
19. Objects containing liquid such as vase must not be put on the appliance.
20. The appliance is not completely isolated from the power supply even if the power switch is at off position.
21. Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.
22. Only use attachments/accessories specified by the manufacturer.
23. An appliance with a protective earth terminal should be connected to a mains outlet with a protective earth connection.
24. An appliance should be placed in a position where an AC plug / inlet can be easily pulled out by hand.
25. Main plug is used as the disconnection device. It shall remain readily operable and should not be obstructed during intended use. To be completely disconnected the apparatus from supply mains, the mains plug of the apparatus shall be disconnected from the mains socket outlet completely.

Introduction

Thank you for purchasing the Fostex PM0.5-Sub MKII Professional Monitor Subwoofer. As with all Fostex products, the PM0.5-Sub MKII has been designed to provide superlative performance, unquestioned reliability and exceptionally high value.

The PM0.5-Sub MKII in combination with satellite speakers model PM0.5 MKII, was specifically engineered to fulfill all your critical near-field monitoring needs and is derived from years of experience Fostex has gained in the professional audio marketplace.

The PM0.5-Sub MKII takes full advantage of a newly designed internal amplifier and employs a state of art design that utilizes high quality discrete bi-polar output devices. The 8" subwoofer was purposely designed for high output, ultra low distortion and incorporates the latest technologies and manufacturing techniques.

Please take the time to go through this manual so that you may take full advantage of all the benefits of the Fostex PM0.5-Sub MKII Professional Studio Monitor Subwoofer.



Unpacking

Prior to unpacking your Fostex PM0.5-Sub MKII, carefully inspect the packing material for excessive damage. Once it has been determined that the packing material has not been compromised, carefully unpack the PM0.5-Sub MKII and inspect it for obvious damage. Fostex takes great care in designing packing materials that will sustain most shipping demands. If any damage is discovered during your inspection process, contact your Fostex dealer immediately.

Setup Instructions

The Fostex PM0.5-Sub MKII is designed to be operated with the Fostex PM0.5 MKII satellite speakers. Please follow the Fostex PM0.5 MKII Reference Manual to set up the satellite system.

The PM0.5-Sub MKII is designed to be placed directly on the floor. The line level output connectors provided on the back panel for connecting to the Fostex PM0.5 MKII satellite speakers. Positioning of Subwoofer in the room drastically affects the overall frequency response and sound level of the system overall. Even a slight change of the Subwoofer's position can bring a significant difference in the frequency balance. A certain degree of testing and experimentation is often required to achieve the optimum positioning of the Subwoofer.

Once the studio monitor system is placed in the desired location, you should now connect the PM0.5-Sub MKII to the mixing console or digital workstation. Connection to the PM0.5-Sub MKII can be made via XLR or TRS connectors. The gain control on the back panel allows continuously variable adjustment to match most input types from -10dBV to +4dBu. The input is electronically balanced and is compatible with unbalanced sources that may require an adaptor. The connection of PM0.5-Sub MKII and the console/digital workstation should be done in the following order.

Step 1: Make sure that all equipment has been powered down.

Step 2: Confirm that all gain controls, on the monitors and sources, are set to the minimum setting.

Step 3: Connect the source to the PM0.5-Sub MKII inputs. Now connect the PM0.5 MKII satellite speakers to the PM0.5-Sub MKII outputs (signal cables are not provided with the products).

Step 4: Power up all the source equipment and turn the PM0.5-Sub MKII and PM0.5 MKII satellite speakers.

Step 5: Set the gain of both satellite speakers to the medium setting. Do likewise with the PM0.5-Sub MKII woofer gain.

Step 6: Adjust the PM0.5-Sub MKII Master gain for your desired volume level. (This controls the overall volume of the Fostex speaker system.) The woofer gain should be adjusted to blend the low frequency seamlessly.

Once the above steps have been completed, you are ready to use PM0.5 MKII recording monitor system. We now recommend that you play some familiar audio material to fine tune the system to get the optimum performance in your monitoring environment.

Back Panel Overview

1. XLR & TRS Combination Inputs

These inputs are electronically balanced inputs and are compatible with both -10dBV and +4dBu signals.

2. Woofer Gain

This control adjusts the Subwoofer level. Use the control to blend the low frequency seamlessly with the satellite speakers.

3. Phase Switch

This switch reverses the phase of the Subwoofer. Depending on the placement of the PM0.5-Sub MKII relative to the satellite speakers in the room, you may obtain the smoother frequency response if you set the switch to the negative position.

4. XLR Outputs

These outputs are electronically balanced outputs and supply +4dBu signal to the satellite speakers.

5. Power Switch

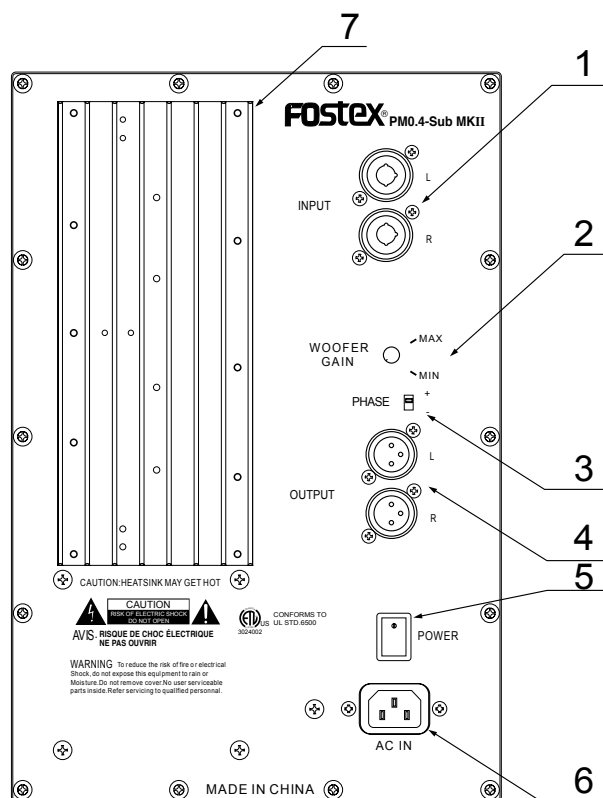
Turns the power to the PM0.5-Sub MKII amplifier section on or off.

6. Standard IEC Power Input

This power connection should be used with a properly grounded three pin power cable.

7. Heatsink

The heatsink dissipates heat from the internal amplifier. It is important that the heatsink receives proper ventilation. Do not place the heatsink near any external sources of heat.



Product Specifications

Cabinet Dimensions

297mm (W) x 400mm (H) x 420mm (D) includes heatsink
385mm (D) cabinet only - no heatsink
11 11/16" (W) x 15 3/4" (H) x 16 1/2" (D) includes heatsink
15 1/8" (D) cabinet only - no heatsink

Net Weight

16 Kg
35.3 Pounds

Cross Weight (includes all packing material)

18.5 Kg
40.8 Pounds

Subwoofer Frequency Response

Free Field Frequency Response: 20Hz ~ 70Hz

XLR Outputs Frequency Response

Low Frequency Cutoff : 65Hz (-10dB)

Subwoofer Phase

Phase switch : + and -

Amplifier Power

110Watts@1%

Amplifier Distortion

<0.002% THD @ 50 Watts / 4Ohm

Amplifier Signal to Noise Ratio

> 80dB

Power Requirements

US : 120VAC ~ 60Hz
EUR/UK : 230VAC ~ 50/60Hz

Power Consumption

US : 75 Watts
EUR/UK : 80 Watts

Driver. 8" Magnetically shielded

Product improvement may warrant a change of specifications, newer materials or cosmetics, Changes in specifications and features may be made without notice or obligations.

Cable and Wiring Information

Use high-quality, shielded cables to connect your mixing console, workstation or other source to your monitors. Foil-shielded cables, such as Beholden 8451, 8761, or 9501 should do quite well. Other high quality cables are available and those that incorporate better shielding will yield an overall higher noise rejection, lowering your systems susceptibility to external interference. Another important tip to keep in mind when wiring your system is to route all line level cables away from the AC and other power sources, this will reduce the probability of having AC hum emanating from your studio monitors.

	XLR	TRS	RCA
HOT (+)	PIN 2	TIP	TIP
COLD (-)	PIN 3	RING	
SHIELD (GROUND)	PIN 1	SHIELD	SHIELD

Product Cleaning Instructions

Prior to cleaning the PM0.5-Sub MKII the power must be disconnected from. Once the power has been terminated, cleaning can be accomplished using a damp (not wet) cleaning rag. Do not use any abrasive or chemically harsh cleaning fluids.

Regular dusting with damp rag cleaning will keep your product looking new for years.

Declaration of EC Directive

This equipment is compatible with the EMC Directive (89/336/EEC) - Directive on approximation of member nation's ordinance concerning the electromagnetic compatibility and with the Low Voltage Directive (73/23/EEC) - Directive on approximation of member nation's ordinance concerning electric equipment designed to be used within the specified voltage range.

The Affect of Immunity on This Equipment

The affect of the European Specification EN61000-6-1 (coexistence of electromagnetic waves - common immunity specification) on this equipment are as shown below.

In the electrical fast transient/burst requirements, surge, conducted disturbances by radio-frequency fields, power frequency magnetic field, radiate electromagnetic field requirements and static electricity discharging environment, this could be affected by generation of noise in some cases.

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* Including non-EU countries (as of May, 2006)

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