# FOSTEX® PM-0.5 MKI

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#### **CAUTION**

RISK OF ELECTRIC SHOCK DO NOT OPEN



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.

## "WARNING"

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

## SAFETY INSTRUCTIONS

- Read Instructions All the safety and operating instructions should be read before the appliance is operated.
- 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.
- Follow Instructions All operating and use instructions should be followed.
- 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.
- 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.

- 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.
- 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.
- 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.
- 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.
- 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.
- Only use attachments/accessories specified by the manufacturer.
- 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 MKII Professional Studio Monitor. As with all Fostex products, the PM0.5 MKII has been designed to provide superlative performance, unquestioned reliability and exceptionally high value.

The PM0.5 MKII was specifically engineered to fulfill all of your critical near-field monitoring needs and is emblematic of the years of experience Fostex has had in the professional audio marketplace. The PM0.5 MKII takes full advantage of internal bi-amplification and employs two state of the art amplifiers that utilize high-quality discrete bipolar output devices. The 5 ½" woofer and 1" tweeter were expressly designed for high output, ultra low distortion and incorporate the latest technologies and manufacturing techniques.

Please take the time to thoroughly read this manual so that you may take full advantage of all the benefits of the Fostex PM0.5 MKII Professional Studio Monitor.



# **Unpacking**

Prior to unpacking your Fostex PM0.5 MKII Studio Monitor, 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 MKII Studio Monitor and inspect it carefully for obvious damage. Fostex takes great care in designing packing materials that will survive most expected impacts during shipping. If any damage is discovered during the inspection process, contact your Fostex dealer so that this issue can immediately be addressed.

# **Setup Instructions**

## **Monitoring Distance = 1 to 2 meters**

After carefully unpacking the PM0.5 MKII Professional Studio Monitor, it is now time to setup the monitors for the best acoustic performance in your studio. The PM0.5 MKII was designed to be used at a monitoring distance of 1 to 2 meters, typically referred to as the near-field.

# Monitoring Height = the acoustic center aimed at seated ear height

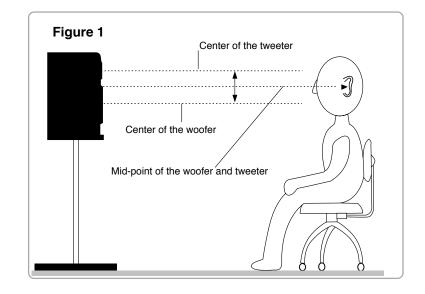
It is recommended that the PM0.5 MKII be located in such a way that the acoustic center is located at, or about, seated ear height (see Figure 1). If this is not possible, it may be necessary to tilt/aim the monitor at the listeners ears.

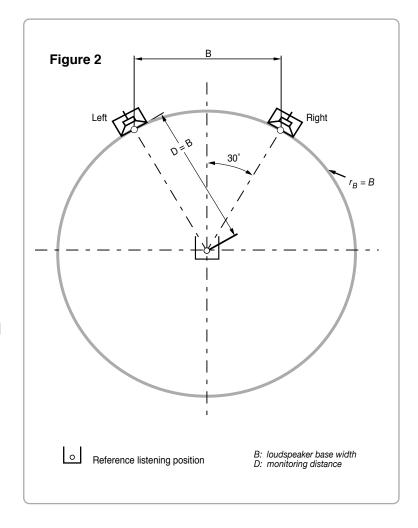
## **Monitoring Angle = 60 Degrees**

The monitoring angle between the left and right monitors and the listening position should equal 60 degrees. The easiest way to determine this is to place the speakers in such a way that the distance between the left and right monitor is equal to the monitoring distance / listening position (see Figure 2). It is also recommended that both speakers be "toed-in" towards the listening position.

#### **Additional Information**

The PM0.5 MKII was designed to be mounted vertically. This provides for the most accurate frequency response, reduces acoustic boundary interference and provides optimum cooling performance for the heat sink that is located on the back of the studio monitor. If it is not possible to mount the monitors vertically, then the monitors should be placed with the woofers inside and the monitors "toed-in" towards the listening area.







# Setup Instructions - continued

Once the studio monitors have been placed in their final location, it is time to proceed to connecting your PM0.5 MKII studio monitors to the mixing console or digital workstation. Connection to the PM0.5 MKII can be made using XLR or TRS connectors. The gain control on the back of the monitor allows continuously variable adjustments to match most input types from -10dBV to +4dBu. The input is electronically balanced and is compatible with unbalanced sources, although this may require an adapter. The connection of the PM0.5 MKII to 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 monitor and the source, are set to the minimum setting.
- Step 3: Connect the source to the PM0.5 MKII monitor.
- Step 4: Power up the all source equipment and then turn on the PM0.5 MKII last.
- Step 5: Set the gain of both monitors at medium setting and slowly bring up the gain of the console.
- Step 6: Adjust the gain of both monitors for balance and for best signal to noise ratio

Once the above steps have been completed, you are ready to use your PM0.5 MKII monitors. It is recommended that you now play some familiar audio material and make any final adjustments, as far as placement or level, to get the optimum performance in your monitoring environment.

## **Back Panel Overview**

### 1. XLR & TRS Combination Input

This input is an electronically balanced input and is compatible with both -10dBV and +4dBu signals.

#### 2. Continuously variable gain control

This control adjusts the input level to the internal amplifiers.

#### 3. Heatsink

The heatsink dissipates heat from the amplifier. It is important the heatsink receives proper ventilation and is not placed near any sources of heat.

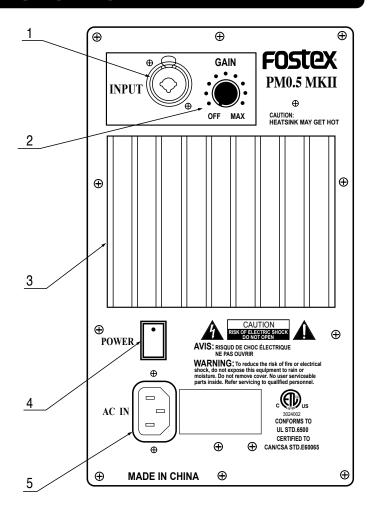
#### 4. Power Switch

Turns power to the amplifier section on or off.

On - position is the spot side.

## 5. Standard IEC Power Input

This power terminal should be used with a properly grounded three pin power cable, such as the one provide with the product.



# **Product Specifications**

#### **Cabinet Dimensions**

181mm (W)  $\times$  280mm (H)  $\times$ 260mm (D) includes heatsink 230mm (D) cabinet only - no heatsink 7 1/8" (W)  $\times$  11" (H)  $\times$  10 1/4" (D) includes heatsink 9" (D) cabinet only - no heatsink

#### **Net Weight**

6.5 Kg 14.3 Pounds

#### Gross Weight Per pair (includes all packing material)

16 Kg 35.2 Pounds

#### **Frequency Response**

Free-Field Frequency Response: ±2dB 50Hz to 20KHz

Low Frequency Cutoff: 40Hz (-10dB) High Frequency Cutoff: 22kHz (-10dB)

#### **Amplifier Power**

High Frequency: 35 Watts Low Frequency: 35 Watts

#### **Amplifier Distortion**

<0.001% THD @ 25Watts / 8Ohm 20Hz-20kHz

#### **Amplifier Signal to Noise Ratio**

>84dB

20Hz - 30kHz Not Weighted

#### **Amplifier Slew Rate**

15V/µsec

#### **Power Requirements**

US: 120VAC~60Hz

EUR/UK: 230VAC~50/60Hz

#### **Power consumption**

US: 35 Watts EUR/UK: 40 Watts

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 Belden 8451, 8761, or 9501 should do quite well. Other high quality cables are available and those that incor porate 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 humemanating 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 MKII monitor the power must be disconnected from the PM0.5 MKII monitor. Once the power has been terminated, cleaning can be accomplished using a damp (not wet) cleaning rag. A light common household cleaner can also be used, but care must be taken not to use harsh cleaning fluids. Regular dusting or cleaning with a damp rag 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

## 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.

## **FOSTEX DISTRIBUTORS LIST IN EUROPE**

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

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within the specified voltage range.

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