

Owner's manual

PX-5

Professional monitor system



Thank you very much for purchasing the Fostex PX-5 professional monitor system. This manual provides the operating instructions for the PX-5. Read this before you use the unit for the first time. After reading, keep this manual in a convenient place so that you can consult it at any time.

WARNINGS and PRECAUTIONS

- CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.
ATTENTION: POUR PREVENIR LES CHOCS ELECTRIQUES, APAR DE LA FENTE LARGE, FOND.
- WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
AVIS: Pour réduire le risque d'incendie ou de choc électrique, ne pas exposer cet appareil sous la pluie et l'humidité.
- CAUTION: Use of any controls or adjustments or performance of procedures other than those herein specified may result in hazardous radiation exposure.
ATTENTION: L'utilisation de tout contrôle ou de réglages ou de procédures autres que celles indiquées ci-après peut entraîner une exposition à des radiations dangereuses.
- WARNING: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
AVIS: Les changements ou modifications à cette unité n'étant pas expressément approuvés par la partie responsable de la conformité pourraient annuler l'autorité de l'utilisateur de faire fonctionner l'équipement.
- WARNING: Do not place the unit on top of any soft, porous, or sensitive surfaces to avoid damaging the surface. Use a protective barrier between the unit and surface to protect the surface.
AVIS: Ne placez pas l'appareil au-dessus de toutes les surfaces souples, poreuses, ou sensibles pour éviter d'endommager la surface. Utilisez une barrière de protection entre l'unité et la surface à protéger la surface.
- WARNING: Use of this unit near fluorescent lighting may cause interference regarding use of the remote. If the unit is displaying erratic behavior move away from any fluorescent lighting, as it may be the cause.
AVIS: L'utilisation de cet appareil à proximité d'éclairage fluorescent peut provoquer des interférences sur l'utilisation de la télécommande. Si l'appareil affiche un comportement erratique s'éloigner de tout éclairage fluorescent, telle qu'elle peut être la cause.
- CAUTION: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.
ATTENTION: Danger d'explosion si les piles sont remplacées de façon incorrect. Remplacer les piles seulement par le même type de pile ou l'équivalent.

- WARNING: Do not install this equipment in a confined space such as a book case or similar unit.
AVIS: Ne pas installer cet équipement dans un espace confiné comme une bibliothèque ou une unité similaire.
- WARNING: Mains plug is used as disconnect device and it should remain readily operable during intended use. In order to disconnect the apparatus from the mains completely, the mains plug should be disconnected from the mains socket outlet completely.
AVIS: La prise du secteur est utilisée pour déconnecter le système. La prise du secteur ne doit pas être obstruée ou doit être facilement accessible pendant son utilisation. Pour être complètement déconnecté de l'alimentation d'entrée, la prise doit être débranchée du secteur.



WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.
AVERTISSEMENT: POUR RÉDUIRE LE RISQUE DE CHOC ÉLECTRIQUE, NE PAS ENLEVER LE COUVERCLE (NI LE DOS). AUCUNE PIÈCE À L'INTÉRIEUR. ENTRETIEN DE PERSONNEL QUALIFIÉ.



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.

Le symbole de l'éclair fléché dans un triangle équilatéral, est destiné à alerter l'utilisateur de la présence d'une "tension dangereuse" dans le boîtier du produit qui peuvent être des ampleur suffisante pour constituer un risque d'électrocution aux personnes.



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.

Le point d'exclamation à l'intérieur d'un triangle équilatéral est destiné à attirer l'attention de l'utilisateur sur la présence d'instructions importantes sur l'emploi ou de la maintenance (réparation) de l'appareil dans la documentation fournie.

IMPORTANT SAFETY INSTRUCTIONS

- 1) Read these instructions.
Lisez ces instructions.
- 2) Keep these instructions.
Conservez ces instructions.
- 3) Heed all warnings.
Respectez tous les avertissements.
- 4) Follow all instructions.
Suivez toutes les instructions.
- 5) Do not use this apparatus near water.
Ne pas utiliser cet appareil près de l'eau.
- 6) Clean only with dry cloth.
Nettoyer uniquement avec un chiffon sec.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
Ne pas bloquer les ouvertures de ventilation. Installer conformément aux instructions du fabricant.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
Ne pas installer près de sources de chaleur telles que radiateurs, registres de chaleur, poêles ou autres appareils (y compris les amplificateurs) produisant de la chaleur.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
Ne détruisez pas la sécurité de la terre ou polarisées - fiche. Une fiche polarisée possède deux lames dont une est plus large que l'autre. Une prise de terre possède deux lames et une broche de terre. La lame large ou la troisième broche sont prévues pour votre sécurité. Si la fiche fournie ne rentre pas dans votre prise, consultez un électricien pour remplacer la prise obsolète.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
Protégez le cordon d'alimentation d'être piétiné ou pincé, particulièrement au niveau des fiches, des prises, et le point où ils sortent de l'appareil.
- 11) Only use attachments/accessories specified by the manufacturer.
N'utilisez que des accessoires spécifiés par le fabricant.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
Utilisez seulement avec la charrette, position, trépied, support ou table spécifiée par le fabricant, ou a vendu avec l'appareil. Lorsqu'une charrette est utilisée, utilisez la prudence quand déplacer la combinaison de charrette / appareil pour éviter la blessure de pointe-sur.
- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
Débranchez cet appareil pendant les orages ou lorsqu'il n'est pas utilisé pendant de longues périodes de temps.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
Confiez toute réparation à un personnel qualifié. Une réparation est nécessaire lorsque l'appareil a été endommagé de quelque façon que ce cordon d'alimentation ou la fiche est endommagé, liquide a été renversé ou des objets sont tombés dans l'appareil, a été exposé à la pluie ou à l'humidité, ne fonctionne pas normalement, ou s'il est tombé.
- 15) The apparatus shall be used in an open area.
Cet appareil doit être utilisé dans un endroit à aire ouverte.
- 16) Apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on apparatus.
L'appareil ne doit pas éclaboussures et aucun objet ne contenant de liquide, tel qu'un vase, ne doit être placé sur objet.
- 17) Mains plug is used as disconnect device. It shall remain readily operable and should not be obstructed during intended use. To completely disconnect the apparatus from supply mains, the main plug of the apparatus shall be disconnected from the mains socket outlet completely.
La prise du secteur et utilisé pou déconnecter le système. La prise du secteur ne doit pas être obstruée ou doit être facilement accessible pendant son utilisation. Pour être complètement déconnecté de l'alimentation d'entrée, la prise doit être débranchée du secteur.
- 18) An apparatus with CLASS I construction shall be connected to a MAINS socket outlet with a protective earthing connection.
Cet appareil est un équipement électronique de Classe I et doit être connecté à une prise secteur avec terre.



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FCC (U.S.A.) & ICES-003 (Canada) INFORMATION

1. IMPORTANT NOTICE

This product, when installed as indicated in the instructions contained in this manual, meets FCC and ICES-003 requirements. Changes or modifications not expressly approved by Fostex Company for compliance could void the user's authority to operate the equipment. DO NOT MODIFY THIS PRODUCT.

2. IMPORTANT

In order to comply with FCC and ICES-003 requirements, use high quality shielded cables for connection to accessories and / or another products. If any cables are supplied with this product, they MUST be used. Follow all installation instructions. Failure to do so could void your FCC / ICES-003 authorization to use this product in the USA / Canada.

3. NOTE

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 instructions, may cause harmful interference to radio communications. However, there is no 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 correct the interference by one or more of the following measures:

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

4. Compliance with Part 15 of FCC Rules and Canadian ICES-003.

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 undesired operation.

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Introduction

The PX-5 is a powered monitor speaker system that can connect to a professional or consumer audio device.

- A rotary encoder is used for adjusting the audio volume level as well as tone (bass and treble) controls, achieving precise digital processing.
- By using a linear phase filter for the network system, phase interference is minimized, resulting natural sound that is comparable to a full-range speaker.
- Precise level adjustment in 440 steps is possible.
- You can adjust the treble by changing the tweeter level within the +/- 3 dB range.
- You can change the low roll-off frequency. The subsonic filter that associates with the roll-off frequency eliminates unnecessary ultra-low frequency range.
- When you turn on the power, the fade-in function is automatically activated and the volume level gradually increases to the previously stored level.
- The parameter lock function prevents the settings from being changed inadvertently.
- High power 5.2-inch woofer featuring the diaphragm that contains aramid fiber for reinforcement.
- 1-inch soft dome tweeter featuring UFLC diaphragm for stable high-mid range sound.
- Rigid cabinet design eliminates unwanted vibration.
- Standby mode saves electricity.
- Three types of input connectors are provided for input; XLR, phone and RCA.

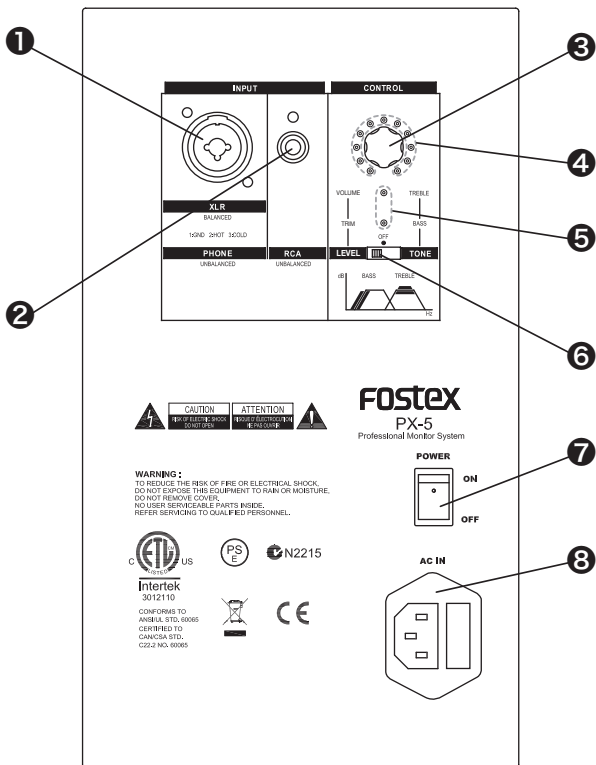
Supplied accessories

The following accessories are supplied with the PX-5.

- Power cord x 1
- Owner's manual (this manual) x 1

After purchasing the PX-5, check that all the above items are included in the package.

Features and functions



❶ [INPUT] jack (XLR-1/4" combo jack)

You can connect an XLR male connector or 1/4" phone plug to this combo jack.

The XLR input accepts a balanced line signal, while the 1/4" phone input accepts an unbalanced line signal.

The pin assignment of the XLR connector is as follows: pin 1: ground, pin 2: hot, pin 3: cold.

<Note>: You cannot use both the RCA and combo [INPUT] jacks simultaneously.
 When a plug is plugged into the RCA jack, the phone jack is disabled.
 When an RCA plug and an XLR connector are simultaneously inserted to the RCA and XLR jacks respectively, both the input signals are mixed.

❷ [INPUT] jack (RCA jack)

You can connect an RCA plug to this unbalanced line input jack.

<Note>: You cannot use both the RCA and combo [INPUT] jacks simultaneously.
 When a plug is plugged into the RCA jack, the phone jack is disabled.
 When an RCA plug and an XLR connector are simultaneously inserted to the RCA and XLR jacks respectively, both the input signals are mixed.

❸ [CONTROL] knob

Used for controlling the volume level and the tone (bass and treble).

By pressing this knob, you can change the controlling item in the current mode (LEVEL or TONE mode) selected by the mode select switch.

By rotating this knob, you can adjust the value of the currently selected item.

By pressing and holding down this knob for a few seconds, the settings of all items are saved to the unit.

See "Level and tone controls" on page ** for details.

❹ Level indicators

The LED indicator corresponding to the current value of the controlling item is lit. When two adjacent indicators are lit, the value that is in the middle of the two is selected.

❺ Status indicators

When the VOLUME item is selected in the LEVEL mode or the TREBLE item is selected in the TONE mode, the upper indicator lights or flashes. When the TRIM item is selected in the LEVEL mode or the BASS item is selected in the TONE mode, the lower indicator lights or flashes.

If the current values of all items match the stored values, the indicator lights steadily.

If you change any of the stored values, the indicator flashes.

See "Level and tone controls" on page ** for details.

❻ Mode select switch

You can select the control mode: LEVEL or TONE. When the switch is set to LEVEL, you can control the volume level using the [CONTROL] knob.

When the switch is set to TONE, you can control the bass and treble using the [CONTROL] knob.

When the switch is set to the center position (OFF), you cannot change any value using the [CONTROL] knob.

See "Level and tone controls" on page ** for details.

❼ [POWER] button

Turns on or off the power.

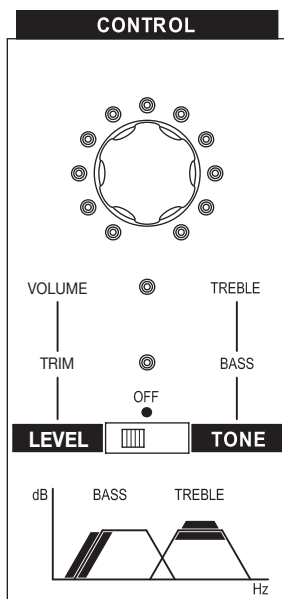
<Memo>: When you turn on the power, the auto fade-in function is activated and the volume level gradually increases to the level you previously saved.

❸ [AC IN] connector

Connects to the supplied power cord.

Volume level and tone controls

You can adjust volume level as well as tone using the [CONTROL] knob.

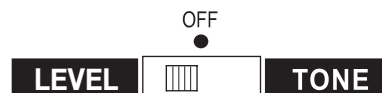


Adjusting volume level

In the LEVEL mode, you can adjust the volume level using the [CONTROL] knob.

The VOLUME and TRIM items are available in the LEVEL mode. The VOLUME item coarsely adjusts the level, while the TRIM item fine-tune the level. By using a combination of these items, you can adjust the volume level precisely in 440 steps.

- 1) Set the mode select switch to the LEVEL position.



The upper status indicator (beside VOLUME) lights steadily.

In this condition, you can coarsely adjust the volume level.

- 2) Adjust the volume level coarsely by rotating the [CONTROL] knob.

<Memo>: If you change the stored value by rotating the [CONTROL] knob, the status indicator changes from lighting to flashing.

If necessary, fine-tune the volume level by following steps 3) and 4) below.

- 3) Press the [CONTROL] knob.

The lower status indicator (beside TRIM) lights steadily or flashes.

In this condition, you can fine-tune the volume level.

- 4) Fine-tune the volume level by rotating the [CONTROL] knob.

<Memo>: **TRIM reset function**

When you change the stored VOLUME value in step 2) above, the TRIM value is automatically reset to the center position. This function allows you to make precise volume level adjustment effectively.

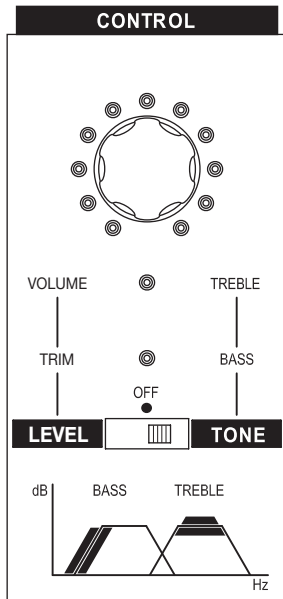
- 5) After fine-tuning the volume level, long-press the [CONTROL] knob to save the adjusted value.

The upper status indicator lights steadily.

<Memo>: Even if you perform step 5) above to save the value after you fine-tune the level (i.e. when the lower status indicator flashes), the upper status indicator lights steadily. Therefore, whenever you attempt to readjust LEVEL after you saved the LEVEL value, you can start with the VOLUME adjustment (coarse adjustment).

<Memo>: By long-pressing the [CONTROL] knob, values of all items (both the volume and tone controls) are saved.

Volume level and tone controls

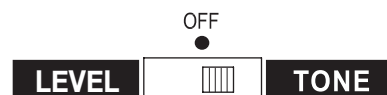


Adjusting the tone controls

In the TONE mode, you can adjust the tone controls using the [CONTROL] knob.

The tone control function includes TREBLE and BASS. The former compensates the high frequency characteristics by adjusting the tweeter level, while the latter compensates the low frequency characteristics by adjusting the roll-off frequency.

- 1) Set the mode select switch to the TONE position.



The upper status indicator (beside TREBLE) lights steadily.

In this condition, you can adjust the treble setting.

- 2) Adjust the treble by rotating the [CONTROL] knob.

<Memo>: You can adjust the treble by changing the tweeter level within the range of -3 dB to +3 dB.

<Memo>: If you change the stored value by rotating the [CONTROL] knob, the status indicator changes from lighting to flashing .

- 3) Press the [CONTROL] knob.

The lower status indicator (beside BASS) lights steadily.

In this condition, you can adjust the bass setting.

- 4) Adjust the bass by rotating the [CONTROL] knob.

<Memo>: You can adjust the bass by changing the low frequency roll-off characteristics.

- 5) After adjusting the tone controls, long-press the [CONTROL] knob to save the adjusted values.

The flashing status indicator changes to light steadily.

<Memo>: By long-pressing the [CONTROL] knob, values of all items (both the volume and tone controls) are saved.

Standby function

Auto standby function

When the mode select switch is set to VOLUME or TONE, the auto standby function is enabled.

When the auto standby function is enabled, if there is no input signal for an hour, the unit automatically enters the standby mode.

When the unit receives a signal, the standby mode is released.

<Memo>: Depending on the source noise level or the connection condition, the auto standby function may not correctly work.

When the unit is in the standby mode, the "FOSTEX" logo on the front panel flashes.

<Memo>: When the mode select switch is set to OFF, the auto standby function is disabled.

Entering the standby mode manually

By long-pressing the [CONTROL] knob when the mode select switch is set to OFF, you can turn the unit to the standby mode.

This feature would be useful when you go outside the studio for a while.

Releasing the standby mode manually

When the unit is in the standby mode, pressing the [CONTROL] knob releases the standby mode and returns to the normal condition.

Parameter lock function

When the mode select switch is set to OFF, the parameter lock function is enabled and the unit is in the following conditions.

- You cannot change the setting values.
- The auto standby function is disabled.

Specifications

Speaker section

Enclosure type: 2 way bass reflex

Units:

Tweeter: 1-inch soft dome tweeter

Woofer: 5.2-inch, Aramid fiber diaphragm

Frequency response: 50 Hz ~ 20 kHz

Amplifier section

Rated output power

Low: 35 W

High: 18 W

Inputs

XLR-3-31 connector (balanced)

Maximum input level: +24 dBu

Input impedance: 20 kohms or more

1/4" phone jack (unbalanced)

Maximum input level: +10 dBV

Input impedance: 10 kohms or more

RCA jack (unbalanced)

Maximum input level: +10 dBV

Input impedance: 10 kohms or more

*The XLR-3-31 connector and the 1/4" phone jack are combined in the combo connector housing.

S/N ratio: 86 dB

Distortion (THD): 0.1 %

Crossover frequency: 2.5 kHz

Subsonic filter: 50 Hz

General

Dimensions: 280 (H) x 180 (W) x 210 (D) mm

Weight: 5 kg

Power requirement: US : 120 VAC, 60 Hz

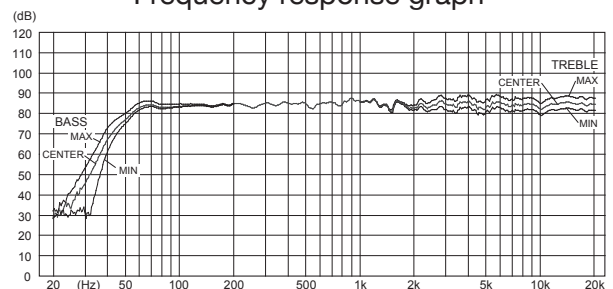
EUR/UK : 230 VAC, 50/60 Hz

Power consumption: 50 W

(0.5 W or less in standby mode)

* Specifications and appearance are subject to change without notice for product improvement.

Frequency response graph



Declaration of EC Directive

This equipment is compatible with the EMC Directive (2004/108/EC) - 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.

FOSTEX DISTRIBUTORS LIST IN EUROPE

* Including non-EU countries (as of January 2013)

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<SWITZERLAND>

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