Operation Manual

Multi Voice File

PV-6232A



* Rack mount products in the Western Hemisphere(North America, South America, and the Caribbean) do not have handles installed due to customer preference.

interM

Welcome

A personal welcome to you from the management and employees of Inter-M

All of the co-workers here at Inter-M are dedicated to providing excellent products with inherently good value, and we are delighted you have purchased one of our products.

We sincerely trust this product will provide years of satisfactory service, but if anything is not to your complete satisfaction, we will endeavor to make things right.

Welcome to Inter-M, and thank you for becoming part of our worldwide extended family!





This symbol 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.



This symbol is intended to alert the user to the presence of important operation and maintenance (servicing) instructions in the literature accompanying the appliance.

Caution: To prevent electric shock do not use this (polarized) plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

Attentions: Pour prévenir les chocs électriques ne pas utiliser cette fiche polarisée avec un prolongateur, une prise de courant on une autre sortie de courant, sauf si les lames peuvent étre insérées à fond sans en laisser aucune partie à découvert.
Pour deconnecter completement l’appareil du reseau d’alimentation. deconnecter le cordon d’alimentation de la prise murale.
La prise du reseau d’alimentation doit demeurer aisement accessible.

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

*WARNING FOR YOUR PROTECTION PLEASE READ THE FOLLOWING-WATER AND MOISTURE: Unit should not be used near water(e.g. near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc). Care should be taken so than objects do not fall and liquids are not spilled into the enclosure through openings.
*Do not install this equipment in a confined space such as a book case or similar unit.
*Warning : To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture and objects filled with liquids, such as vases, should not be placed on this apparatus.
*This apparatus shall be connected to a mains socket outlet with a protective earthing connection.
*To completely disconnect this apparatus from the AC mains, disconnect the power supply cord plug from the AC receptacle.
*The mains plug of the power supply cord shall remain readily accessible.

CAUTION
*These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

NOTE
*This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Contents

Unpacking 2

Installation
- Environment 2
- Important Safety Instructions 2

Features 3

Package and accessory includes 3

Front Panel 4

Rear Panel 6

How to Operate 8

Application 15

PC and RS-232C Connection 16

Block Diagram 17

Specifications 18

Service
- Procedures 20
- Schematic 20
- Parts List 20

Variations and Options 20

Warranty 20

Unpacking

Although your PV-6232A is neither complicated nor difficult to operate, we recommend you take a few minutes to read this brief manual and familiarize yourself with the important information regarding product features, setup and operation.

As with most electronic devices, we strongly recommend you retain the original packaging. In the unlikely event the product must be returned for servicing, the original packaging (or reasonable equivalent) is required.

Installation

Environment
Never place this product in an environment which could alter its performance or reduce its service life. Such environments usually include high levels of heat, dust, moisture, and vibration.

IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
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.
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.
11. Only use attachments/accessories specified by the manufacturer.
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.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
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.



Features

- PLAY
You can play various formats of sound source files.
(The playback of MP3, OGG, WAV files is supported)

- RECORDING
Saves analogue audio signal to storage media as digital sound source file (MP3).
(Saved as 128kbps/44.1kHz)

- STORAGE CAPACITY
Enables the recording at outside for a long time with mounted 8GB SD Card. Can be extended by up to 32GB.

- INTERFACE WITH PC USING USB TERMINAL
Enables the connection with PC via USB terminal to upload/download sound source files from/into SD Card at back side.

- DISPLAY ADOPTION
Adoption of 128X64 graphic LCD enables to display a variety of functions.

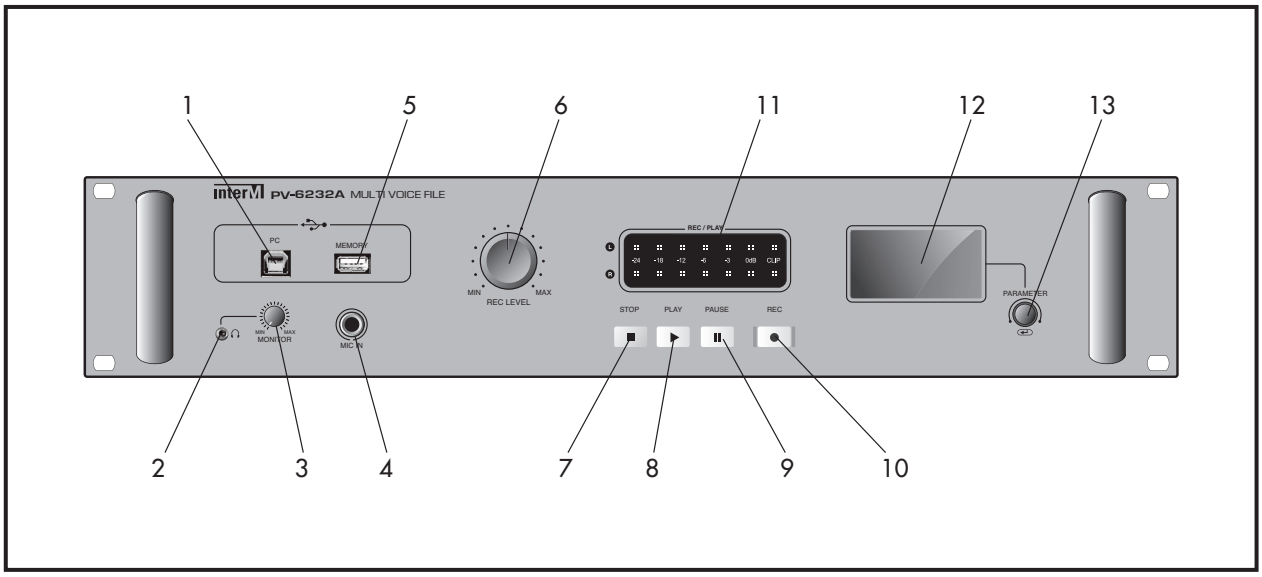
- MULTIPLE AUDIO INPUT
With input terminals of CD, AUX, and MIC to the front side and the backside, you can record multiple audio input.

- VOLUME AND SIGNAL LEVEL METER
Output level can be controlled by the volume in front, and it indicates the values of playback level of sound source file or recording level as dB.

Package and accessory includes

1. **AC power cord x 1**
2. **B-type USB cable x 1**
3. **Screw for rack mounting x 4**
4. **User manual x 1**

Front Panel

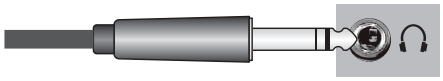


1. PC CONNECTION TERMINAL

It is a terminal to move, delete, and copy sound source files from PC into SD CARD by connecting the USB cable. During connecting with PC via USB cable, all buttons of equipment will not operate and if you want to use the functions of playing, recording, and deletion, remove the cable connected to PC before the use.

2. HEADPHONE OUTPUT TERMINAL

It is a terminal to monitor the audio output with headphone connected. Refer to the following for the cables needed to the terminal.

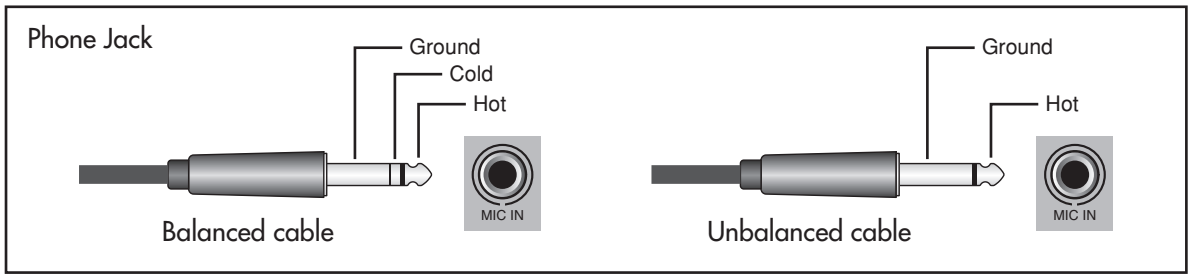


3. HEADPHONE OUTPUT VOLUME

It is a volume to adjust the audio output level of headphone terminal.

4. MIC IN TERMINAL

It is an input terminal to connect the MIC. Refer to the below figure when using the unbalanced cable for the balanced cable.



5. USB MEMORY CONNECTION TERMINAL

It is a terminal to connect the USB memory. When connecting the USB memory, you can play or remove the sound sources in USB memory. When you need to play the files saved to SD CARD in backside, remove the connected USB memory before use.

⇒ Play supported format: MP3

⇒ File system: FAT 32 (NTFS unsupported)

6. RECORDING LEVEL VOLUME

It is a volume to adjust the input level when using the recording function.

7. STOP BUTTON (■)

It is a button to be used when stopping the recording or play. Refer to the instruction of operating method for details.

8. PLAY (▶)

It is a button to be used when playing the sound source file. Refer to the instruction of operating method for details.

9. PAUSE BUTTON (II)

It is a button to be used when pausing the play of sound source file. Refer to the instruction of operating method for details.

10. REC BUTTON (●)

It is a button to be used when recording the audio signal input with MIC IN terminal in front side and audio input terminal in backside (RCA, AUX). Refer to the instruction of operating method for details.

11. SIGNAL LEVEL METER

The input signal level is displayed when recording and output signal level is displayed when playing.

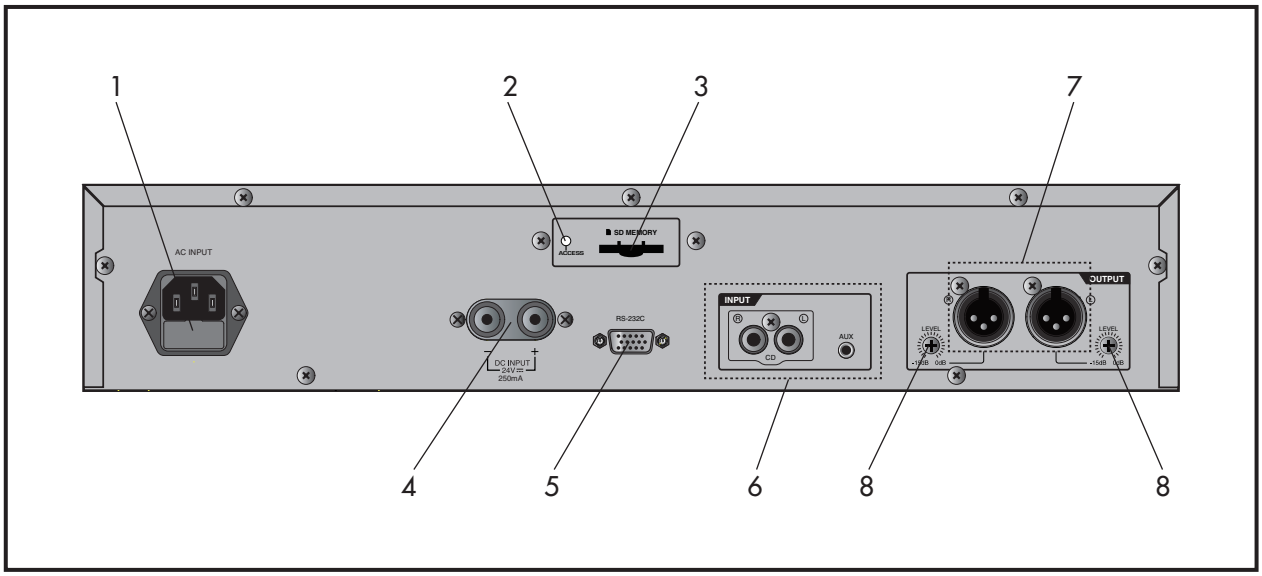
12. DISPLAY WINDOW

It is a window to display the information of multiple operations of equipment.

13. PARAMETER

It is used when selecting the information displaying to the current display window. Refer to the instruction of operating method for details.

Rear Panel



1. AC INPUT TERMINAL

It is a terminal to input AC power. Fuse cap containing (AC 220-240V, 50/60Hz) AC power fuse is mounted. (FUSE: T315mA/250V)

2. SD CARD OPERATION STATUS DISPLAY LED

It is a LED to display the operation status of SD CARD. Green LED flashes when SD CARD is under Read/Write status.

3. SD CARD SLOT

It is a slot to mount SD CARD. Basically 8GB of SD CARD is provided.
- SD Card supported capacity: Up to 32GB
- File system: FAT 32 (NTFS unsupported)

4. DC POWER INPUT TERMINAL

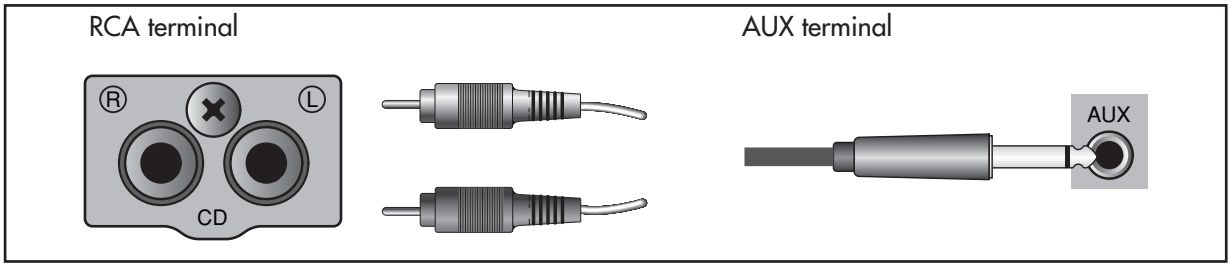
It is a terminal to input DC 24V power.

5. RS-232 TERMINAL

It is a terminal to connect with PW-6242B. According to the saved schedule in PW-6242B, our product, you can control the equipment or connect ER-6116 (Emergency Router) to play EM scenario message.

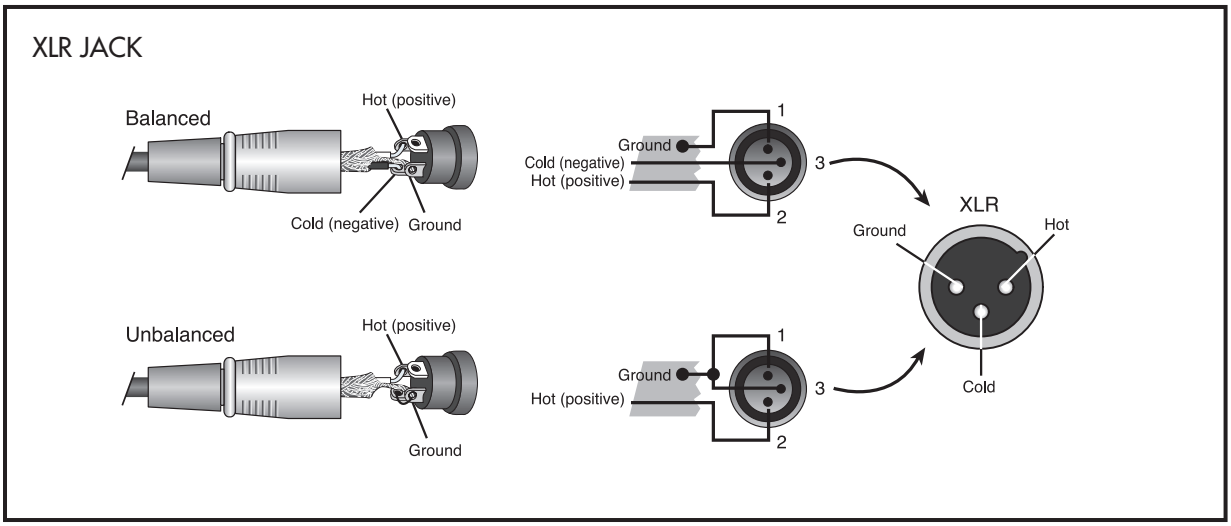
6. AUDIO INPUT TERMINAL

It is an audio input terminal enabling to connect with source devices including CD player. It is configured with RCA input terminal and AUX input terminal. Refer to the following for the cables needed to the terminal.



7. AUDIO OUTPUT TERMINAL

It is an audio output terminal. It is divided into L channel and R channel. You can also use as MONO type depending on output setting. Please use the balanced cable. When using the unbalanced cable, refer to below figure to connect it.



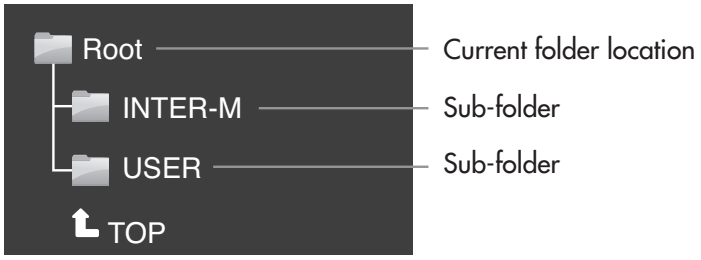
8. AUDIO OUTPUT LEVEL ADJUSTING VOLUME

It can adjust the level of audio output. It can adjust from 0dB to 15dB.

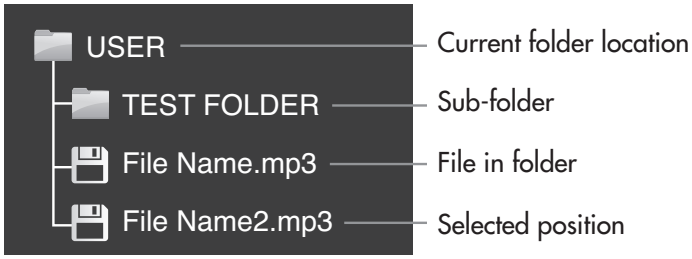
How to Operate

1. Sound Source Selection

You can choose the sound source via file tree structure.



1) If you push PARAMETER during initial screen or playing the sound source, it is converted into sound source selection screen.
2) The file tree structure for selecting folders and sound sources is displayed to display window. If you push PARAMETER after moving into the desired folder by rotating PARAMETER, the folder is selected. When selecting TOP, it moves to the top of screen.
3) If you rotate PARAMETER in selected folder, you can choose the sound source file.



2. Sound Source Play

You can play the sound sources saved to USB memory or SD Card by selection.



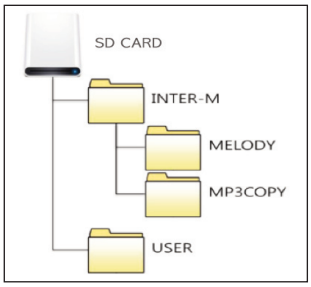
❶ Status Icon	Play/Stop/Pause Icons
❷ Setup Status	Displayed depending on the setup
❸ Track No.	Current Track No.
❹ Current Folder Location	Folder Icon, Current Folder Name
❺ Status Message	PLAY/STOP/PAUSE
❻ Message 1	Name of Playing File
❼ Message 2	Play Progress Bar

1) If you push PLAY(▶) button after selecting the sound source file with PARAMETER, it displays play icon and play time on display window, plays selected sound source file, and lights on LED of PLAY(▶) button.
2) If you push PAUSE (II) button during playing, it pauses and LEDs of PLAY(▶) & PAUSE(II) buttons flash. If pushing PLAY(▶) button again, it continues to play.
3) If you push STOP(■) button, the play of sound source is stopped.

4) If pushing PARAMETER during playing the sound source, the play is stopped and it moves into sound source selection screen. When moved to the sound source selection screen, LEDs of all buttons are turned off.
5) If you push STOP(■) button during playing the sound source, the play of sound source is stopped. Under the stop of sound source play, if pushing STOP(■) button longly, it moves to the defaullt screen.

3. Sound Source Saving

You can save digital sound source files into SD Card.
1) Sizes of all storage media memory are supported from min. 4GB to max. 32GB.
2) For the file system of storage device, only FAT 32 is supported. Format PC with FAT 32, then use.
3) Sub-folder structure is supported and refer to the below picture for default folder structure of file system.



Folder Name	Content
INTER-M	It is a default folder of storage device.
AUTOPLAY	It is a folder that automatic playing MP3 file (EMORG.MP3) is saved when using Auto Play function.
RECORD	It is a folder to save recorded file in case of using sound source recording function.
USER	It is a default folder for user to save the sound source. You can create folders freely to the sub-folder.

※ **CAUTION**

1) Set up the file structure inside SD Card as above. If you modify or delete folder name arbitrarily, it will not be operated normally.
2) Under the status that it is connected with PC via USB cable, the function and system will not be operated. When using the function, remove the cable connected to PC and then proceed the function.
3) It is faster in file uploading/downloading speed by mounting SD Card directly onto PC rather than uploading/downloading the file by connecting with PC after mounting SD Card onto the equipment. When uploading/downloading the large capacity of file, mount SD Card directly onto PC and then proceed.
4) When interworking with ER-6116, save the sound source file to the top folder of SD Card. Please add the number from 001 to 099 before file name in sound source file.

Ex) 01sound source file name.mp3, 002sound source file name.mp3, ·····, 099sound source file name.mp3
(The name of sound source file can be changed but make sure to add the number before file name.)

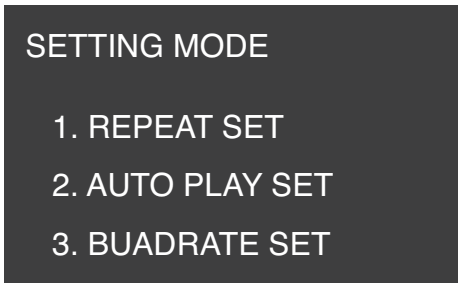
4. Recording

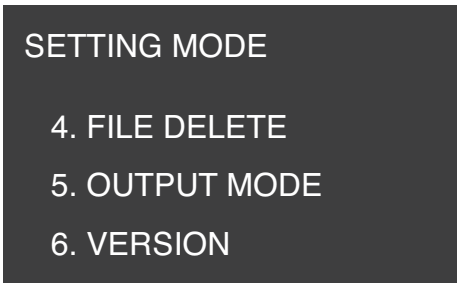
You can record the audio signal input with MIC IN terminal in front side and audio input terminal in backside (RCA, AUX). Input the audio signal to MIC IN terminal in front side or audio input terminal in backside (RCA, AUX) and then record.
1) If you push REC(●) button, RECORD WAITING statement is displayed to display window, LED of REC(●) button flashes, and it is converted into recording standby status.
2) When recording turns into standby status, the remained capacity of SD Card is displayed to display window.
3) If you push REC(●) button again at that time, the recording starts and display window displays the recording time.

4) If you push PAUSE (II) button during recording, display window displays RECORD PAUSE statement, the recording pauses, and PAUSE ( ) and REC(●) buttons flash.
5) If pushing PLAY(▶) button once again, it continues to record. Using this function, the user can record only desired parts to create one sound source file.
6) If you push STOP(■) button, the recording is stopped.
7) If you push PLAY(▶) button after completing the recording, it plays from the last recorded content.
※ When recording after inputting all audio signals to MIC IN terminal in front side and audio input terminal in backside (RCA, AUX), the audio signal is recorded by mixing.

5. Setting Mode

You can set up repeat & play, auto play, communication speed, file deletion, and output mode and check the firmware version.

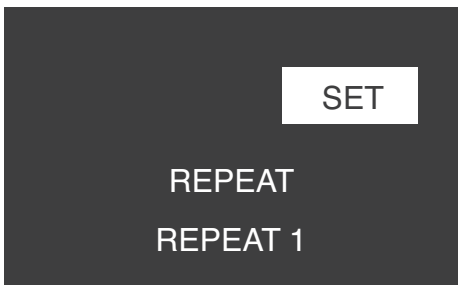


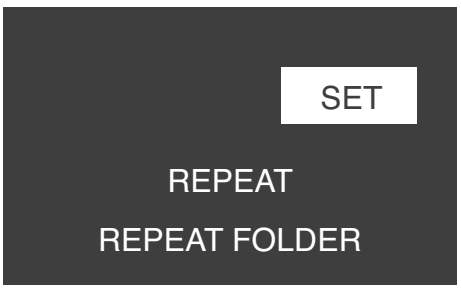


1) During default screen or playing the sound source, if you push PARAMETER longly, it is converted into selection mode.
2) In setting mode, you can set up repeat/auto play, communication speed, and output mode and delete the file.
3) Rotate PARAMETER in setting mode, you can move the setting item.
4) If you push PARAMETER after moving into the desired item, the item is selected.
5) If there is no input for 5 seconds, it moves into the default screen.
6) If the sound source is played at the device, it cannot be moved to FILE DELETE/OUTPUT MODE/VERSION menu.

5.1 Repeat

You can play by repeating the playing file. If pushing PARAMETER after moving into REPEAT SET in setting mode screen, the screen to set up repeat mode displays, and if pushing PARAMETER after changing it into the desired function by rotating PARAMETER, it is set to due function.







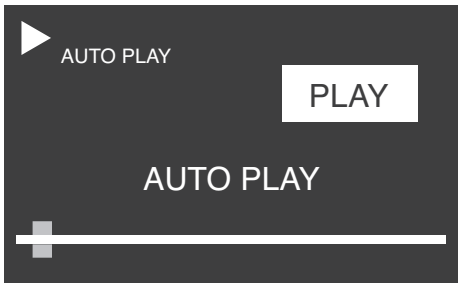
1) REPEAT 1
   Playing file is repeatedly played.
2) REPEAT FOLDER
   All sound source files in current folder location (excluding sub-folder) are played repeatedly in the arranged order.
3) REPEAT ALL
   Arranged all sound source files are played repeatedly.
4) REPEAT NON
   Doesn't use repeat & play.

5.2 AUTO PLAY

When supplying AC or DC power, EMORG.mp3 in AUTOPLAY folder is automatically & repeatedly played. If pushing PARAMETER after moving into AUTO PLAY in setting mode screen, AUTO PLAY setting screen is displayed and YES or NO can be selected by rotating PARAMETER. If pushing PARAMETER after selecting YES or NO, the setting is completed. You can connect with external device auto input terminal of EP (EMERGENCY PANEL) to use as emergency sound source.



1) If AUTO PLAY is activated, AUTO PLAY statement is displayed on the top of display window.



2) When playing the sound source with AUTO PLAY activated, any button other than STOP button does not operate.

3) If pushing STOP button, the play stops and it moves into the default screen.
※ Caution: Be cautious that if file name and folder configuration are wrong, it does not play normally.
Folder name - AUTOPLAY, file name - EMORG

5.3 Communication Speed (Baud Rate) Setting

When connecting this device with PW-6242B, you can set up communication speed for each product. In case of unmatched communication speed, you cannot control with RS-232 communication terminal and therefore, set up the proper communication speed. If pushing PARAMETER after moving into BAUDRATE in setting mode screen, BAUDRATE setting screen is displayed and you can set up the communication speed by rotating PARAMETER.



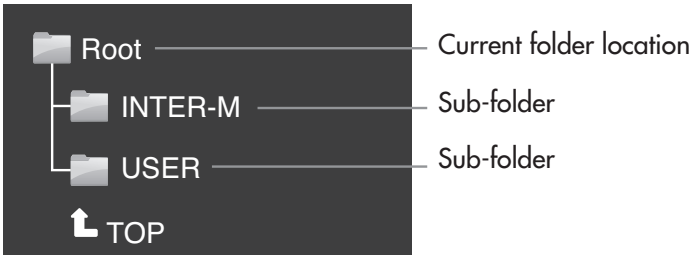
1) You can change the communication speed into 9600BPS/19200BPS by rotating PARAMETER. Refer to the following to set up the communication speed for the model to be connected.

MODEL	BaudRate
PW-6242B	19200 bps
ER-6116	9600 bps

2) If pushing PARAMETER after changing the communication speed, changed communication speed is set up.
3) If pushing STOP button during setting up the communication speed, the setting is not saved and it moves into the default screen.

5.4 DELETION

You can select the sound sources file saved to USB memory or SD Card to delete. If pushing PARAMETER after moving into FILE DELETE in setting mode screen, the screen which enables the selection of file to be deleted is displayed and you can select the file to be deleted using PARAMETER.



1) Select the file to be deleted by rotating PARAMETER.
2) If selecting the file to be deleted, delete confirmation window is displayed. You can select YES or NO by rotating PARAMETER. If pushing PARAMETER after selecting YES, the selected file is deleted. If pushing PARAMETER after selecting NO, the selected file will not be deleted.



3) If the deletion of sound source file is completed, File Deleted statement is displayed to display window.
4) During the operations of sound source play & sound source recording, you cannot delete the sound source.
5) If you push STOP(■) button during deleting the sound source, the deletion is canceled.
6) If all of melodies saved to SD Card are deleted, NO FILE statement is displayed to display window.

5.5 OUTPUT Mode Setting

You can select the output mode of this device between STEREO and MONO. If pushing PARAMETER after moving into OUTPUT MODE in setting mode screen, the screen to set up the output mode and you can change the output mode by rotating PARAMETER.

1) You can set up the output mode as STEREO or MONO by rotating PARAMETER.



2) If pushing PARAMETER after selecting STEREO or MONO, it is set up as the output mode.

5.6 Firmware Version Verification

You can verify the firmware version of this device. If pushing PARAMETER after moving into VERSION in setting mode screen, firmware version of the device is displayed. The number displayed to the screen varies depending on the firmware version.



6. Uploading & Downloading MP3 File Using USB-B Type Port

After connecting this device with PC, you can upload & download or delete MP3 file from/into PC.

1) When connecting USB B type port in front of this device with PC using USB cable, SD Card mounted to this device is automatically recognized.

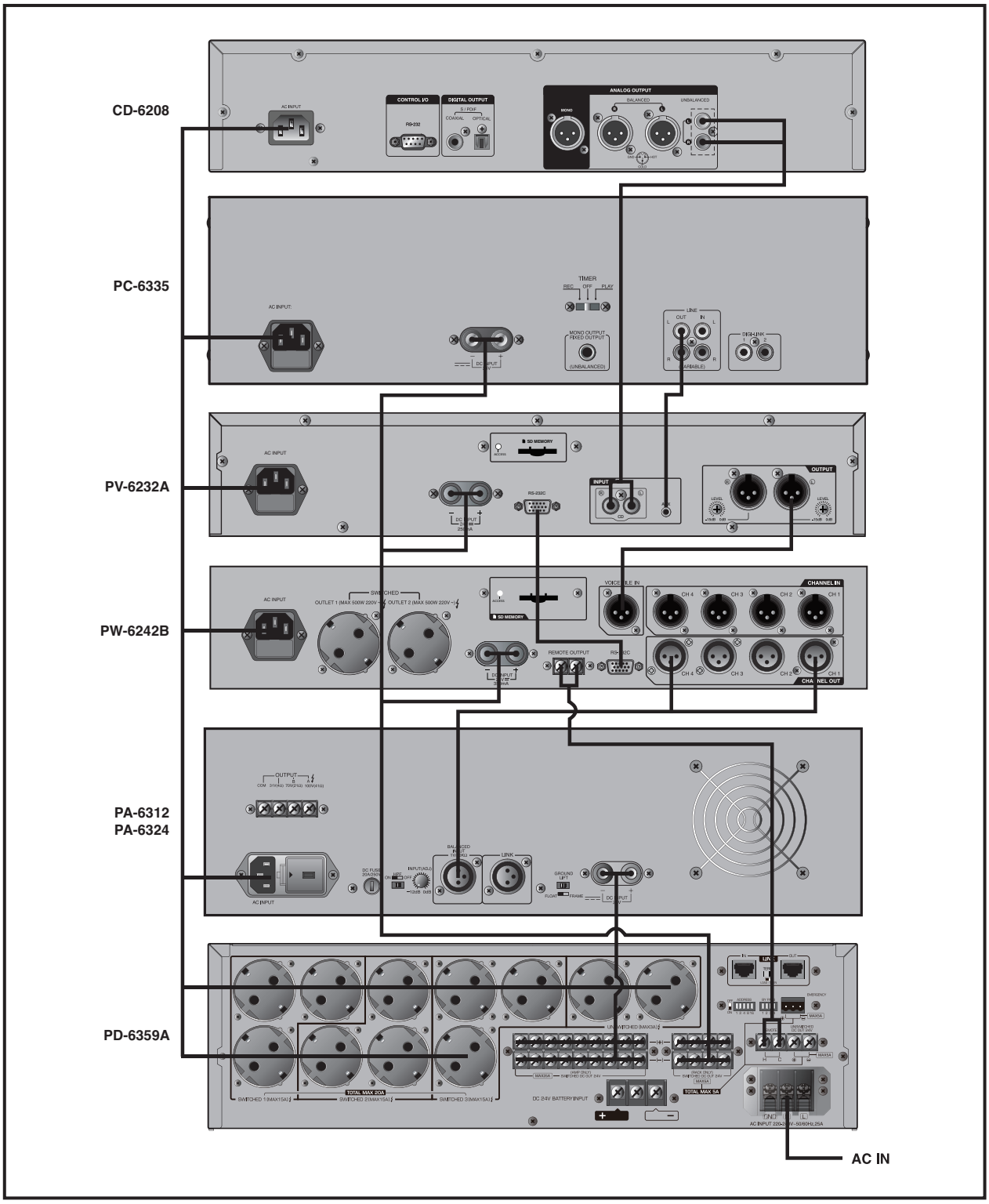
Then USB DEVICE statement is displayed to display window of this device and portable disk driver appears to MY COMPUTER of PC.

2) By double clicking the portable disk, you can upload & download or delete MP3 file.

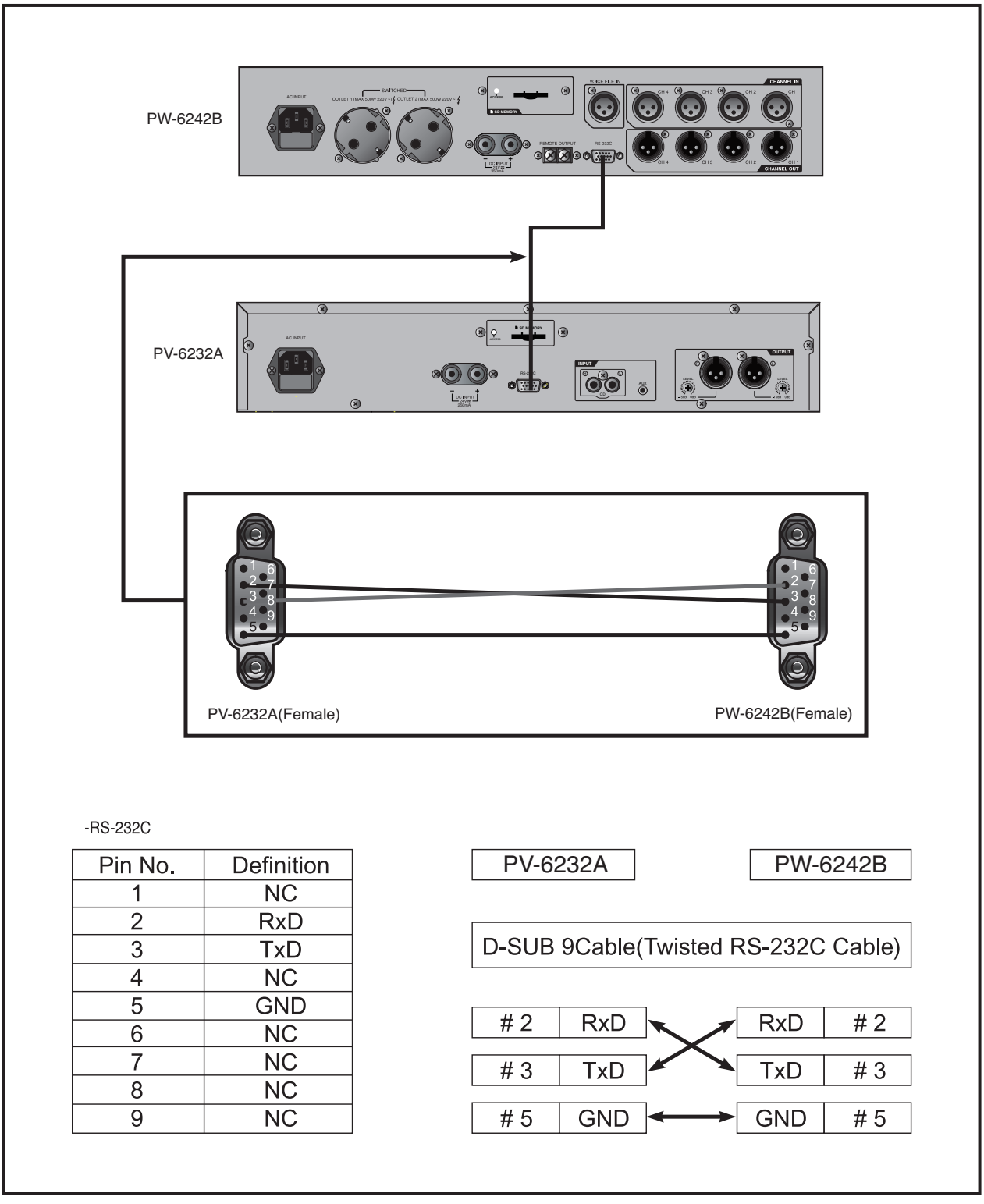
※ Please connect with PC after booting the product completely. During connecting with PC, all buttons of equipment will not operate and if you want to use the functions of play, record, and deletion, remove the cable connected to PC before the use.

※ When connecting with PC via USB cable during playing the sound source, the equipment may show the malfunction. Do not connect with PC via USB cable during playing the sound source.

Application



RS-232C Connection

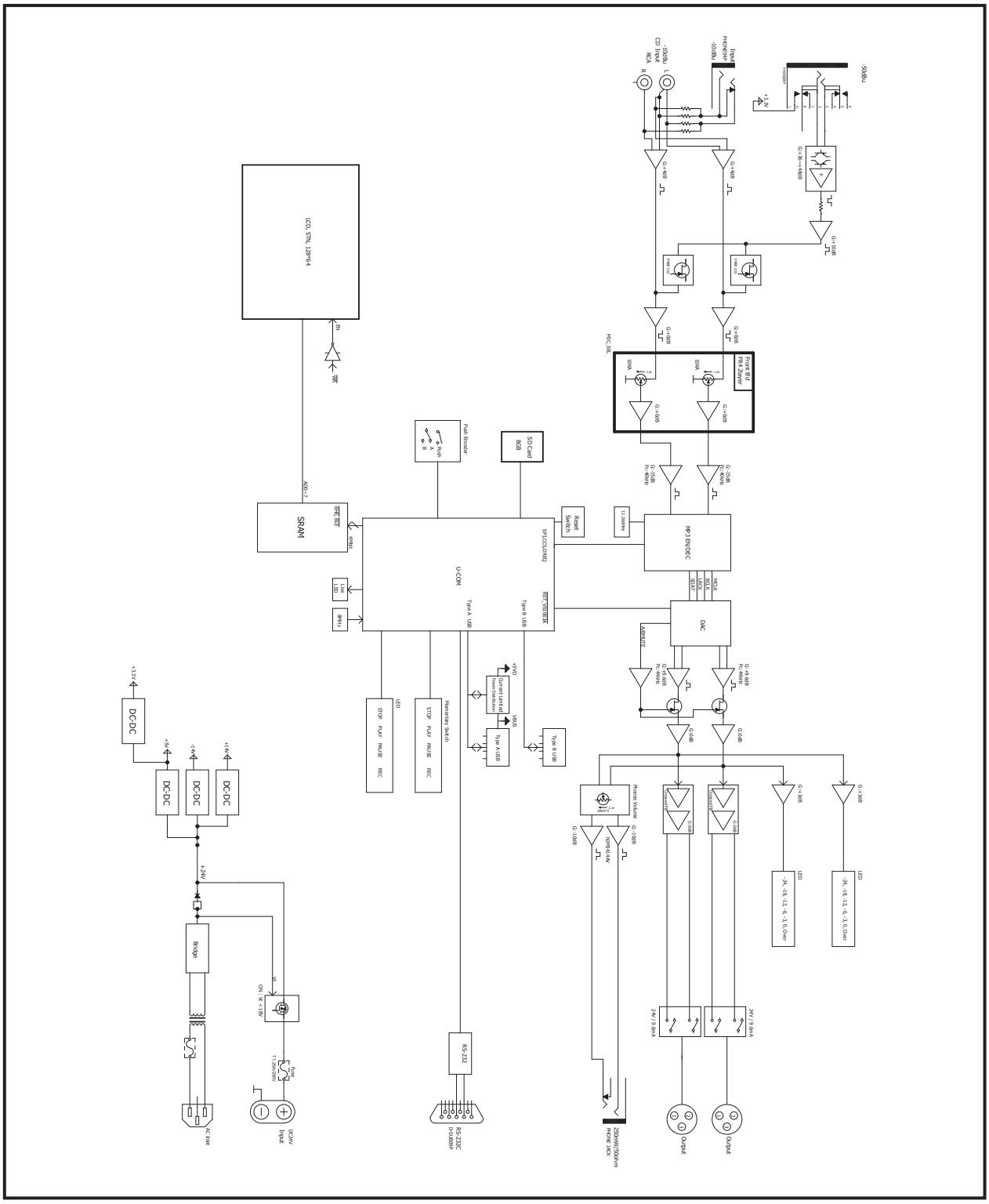


-RS-232C

Pin No.	Definition
1	NC
2	RxD
3	TxD
4	NC
5	GND
6	NC
7	NC
8	NC
9	NC

PV-6232A		PW-6242B	
D-SUB 9Cable(Twisted RS-232C Cable)			
# 2	RxD	RxD	# 2
# 3	TxD	TxD	# 3
# 5	GND	GND	# 5

Block Diagram



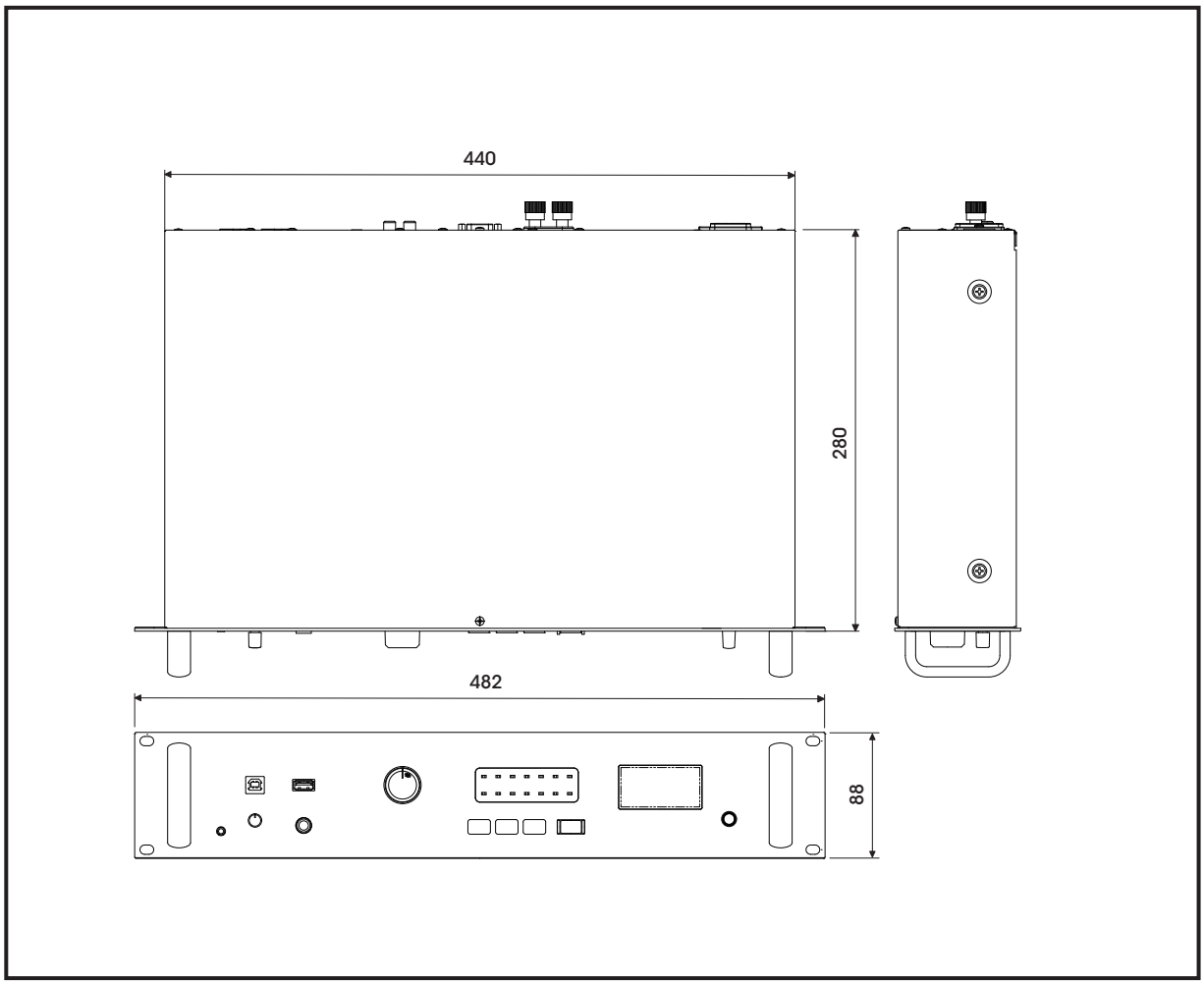
Specifications

		PV-6232A
Communication method		RS-232C PC INTERFACE
Rated output (1kHz, MIC -50dBu,CD -10dBu, AUX -10dBu)		0dBu
Play mode output level (1kHz 0dBFS Play, Max. Volume)		Maximum +20dBu
HEAD PHONE OUTPUT		Maximum 250mW / 50Ω
Frequency characteristics (Output at Rated ±3dB)	AUX IN	40Hz~20kHz
	CD IN	40Hz~20kHz
	MIC IN	40Hz~20kHz
Input sensitivity / Impedance	AUX IN	-10dB / 10kΩ (UNBAL)
	CD IN	-10dB / 10kΩ (UNBAL, L+R)
	MIC IN	-50dB / 2kΩ (BAL)
Recording mode Signal to Noise (20kHz LPF)		> 58dB
Play mode Signal to Noise (20kHz LPF, 1kHz 0dBFS MP3 Play)		> 100dB
THD (20kHz LPF)		< 0.3 %
Operating Temperature		-10℃ ~ +40℃
Power Source		AC 220-240V, 50/60Hz, DC 24V
Power consumption		15W
Weight (set)		4.35kg / 9.59lb
Dimension (set)		482(W) x 88(H) x 280(D)mm / 19(W) x 3.5(H) x 11(D)in

* Design and specification are subject to be changed for the improvement of product quality without pre notice.

※ Caution: This device is for business and is completed in Electromagnetic Compatibility Registration. Seller or User should be cautious for this point and if selling or purchasing wrongly, exchange into the device for home. (Class A Product)

※ DIMENSIONS



Service

Procedures
Take steps to insure the problem is not related to operator error or other products within the system. Information provided in the troubleshooting portion of this manual may help with this process. Once it is certain that the problem is related to the product contact your warranty provider as described in the warranty section of this manual.

Schematic
A Schematic is available by contacting your warranty provider.

Parts List
A Parts List is available by contacting your warranty provider.

Variations and Options

Variations
Products supplied through legitimate sources are compatible with local AC power requirements.

Options
No optional items are available for this product.

Warranty

Warranty terms and conditions vary by country and may not be the same for all products. Terms and conditions of warranty for a given product may be determined first by locating the appropriate country which the product was purchased in, then by locating the product type.

To obtain specific warranty information and available service locations contact Inter-M directly or the authorized Inter-M Distributor for your specific country or region.

Inter-M, Ltd. (Korea) began operations in 1983.

Since then, Inter-M has grown to become one of the largest manufacturers
of professional audio and commercial sound electronics equipment in the world.

Inter-M has gained worldwide recognition for its own branded products,
as well as private label manufacturing of electronics sold under other names (OEM).

The company is no longer just a Korean company, but rather a global company
that is truly international in scope, with factories and offices in Korea and China,
and sales and marketing operations located in Japan, Europe, and the U.S.A.

With more than 850 employees around the globe,
Inter-M is well-poised for further growth and expansion.

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