PMR61

PROFESSIONAL AUDIO RECORDER

User Guide

SUPERSCOPE®

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U.S. Patents Pending

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

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.

WARNING

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

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

ATTENTION: POUR EVITER LES CHOC ELECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQUíAU FOND.

CAUTION

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURE OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS EXPOSURE.

LASER SAFETY

This unit employs a laser. Only a qualified service person should remove the cover or attempt to service this device, due to possible eye injury.

NOTE TO CATV SYSTEM INSTALLER:

This reminder is provided to call the CATV (Cable-TV) system installer's attention to Section 820-40 of the NEC which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

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 the 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 tuning the equipment off and on, the user is encouraged to try 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.

NOTE: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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

Cet appareil numÈrique de la Classe B conforme à la norme NMB-003 du Canada.

Important Safety Instructions

READ BEFORE OPERATING EQUIPMENT

This product was designed and manufactured to meet strict quality and safety standards. There are, however, some installation and operation precautions which you should be particularly aware of.

1. Read instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Clean only with dry cloth.
6. Do not use this apparatus near water.
7. To ventilate the unit, do not install it in a rack or bookshelf, and note the following: Do not insert objects beneath the unit. Do not block ventilation slots at the top of the unit. Do not place anything about 1 meter above the top panel. Make a space of about 8" (20 cm) around the unit.
8. Do not install near nay 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.

Additional Safety Information!

- This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
- Apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.
- When the switch is in the OFF position, the apparatus isn't completely switched-off from the MAINS.

WARNINGS

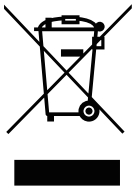
Do not expose the equipment to rain or moisture.
Do not remove the cover from the equipment.
No naked flame sources, such as lighted candles, should be placed on the equipment.
Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
Set the unit up on an even surface away from direct sunlight, high temperatures, high humidity, and excessive vibration.
Do not place heavy items on the unit.
Do not use high voltage power sources. This can overload the unit and cause a fire.
Do not handle the plug with wet hands. This can cause electric shock.
Do not let metal objects fall inside the unit.
Do not let liquids get into the unit.
Do not spray insecticides onto or into the unit.
Do not attempt to repair this unit by yourself.

English

CE Declaration of Conformity

We declare that this product, to which this declaration relates, is in conformity with the following standard: EN 55032, EN 55024, EN61000-3-2, EN61000-3-3, and with the requirements of EMC Directive 2004/108/EC.

A NOTE ABOUT RECYCLING



- This product's packaging materials are recyclable and can be reused. Please dispose of any materials in accordance with the local recycling regulations.
- When discarding the unit, comply with local rules or regulations.
- Batteries should never be thrown away or incinerated, and should be disposed of in accordance with the local regulations concerning chemical waste.
- This product and the accessories packed together constitute the applicable product according to the WEEE directive except batteries.

WARNINGS

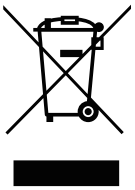
- Do not handle the AC adaptor with wet hands.
- Do not cover the ventilation with any items such as tablecloths, newspapers, curtains, etc.
- No unprotected flame sources, such as lit candles, should be placed on the equipment.
- When disposing of used batteries, please comply with governmental regulations or environmental rules that apply in your country or locality.
- Make a space of about 0.1 meter around the unit.
- No objects filled with liquids, such as vases, should be placed on the apparatus.
- When the switch is in the OFF position, the equipment is not completely switched off from MAINS.
- To completely disconnect this product from the mains, disconnect the plug from the wall socket outlet.
- When setting up this product, make sure that the AC outlet you are using is easily acceptable.
- Do not expose batteries to excessive heat such as sunshine, fire or similar.

Français

CE Déclaration de Conformité

Nous déclarons que le présent produit, auquel se réfère la présente déclaration, est conforme aux normes suivantes :
EN 55032, EN55024, EN 61000-3-2, EN 61003-3-3, ainsi qu'aux exigences de la Directive EMC 2004/108/EC.

UNE REMARQUE CONCERNANT LE RECYCLAGE



- Les matériaux d'emballage de ce produit sont recyclables et peuvent être réutilisés.
- Veuillez disposer de tout matériau conformément aux règlements de recyclage locaux. Lorsque vous mettez cet appareil au rebut, respectez les lois ou réglementations locales.
- Les piles ne doivent jamais être jetées ou incinérées, mais mises au rebut conformément aux règlements locaux concernant les déchets chimiques.
- Ce produit et les accessoires emballés ensemble sont des produits conformes à la directive DEEE sauf pour les piles.

AVERTISSEMENTS

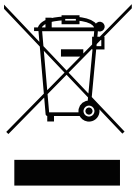
- Ne manipulez pas l'adaptateur AC avec les mains mouillées.
- Ne pas recouvrir les ouïes de ventilation avec un objet quelconque comme une nappe, un journal, un rideau, etc.
- Ne placer aucune source de flamme nue, comme une bougie allumée, sur l'appareil.
- Pour mettre au rebut les piles usées, respecter les lois gouvernementales ou les règlements officiels concernant l'environnement qui s'appliquent à votre pays ou région.
- Veiller à ce qu'aucun objet ne soit à moins de 0,1 mètre des côtés de l'appareil.
- Aucun objet rempli de liquide, un vase par exemple, ne doit être placé sur l'appareil.
- Lorsque l'interrupteur est sur la position OFF, l'appareil n'est pas complètement déconnecté du SECTEUR.
- Pour déconnecter complètement ce produit du courant secteur, débranchez la fiche de la prise murale.
- Lors de l'installation de ce produit, assurez-vous que la prise CA que vous utilisez est compatible.
- N'exposez pas les piles à une source de chaleur excessive, aux rayons du soleil ou à une flamme par exemple.

Deutsch

CE Konformitätserklärung

Hiermit erklären wir, dass das Produkt, auf welches sich diese Erklärung bezieht, den folgenden Normen entspricht:
EN 55032, EN 55024, EN61000-3-2, EN 61003-3-3 und der EMV-Richtlinie 2004/108/EG.

HINWEIS ZUM RECYCLING



- Das Verpackungsmaterial dieses Produktes ist für recycelbar und kann wiederverwendet werden.
- Bitte entsorgen Sie alle Materialien entsprechend der örtlichen Recyclingvorschriften. Beachten Sie bei der Entsorgung des Gerätes die örtlichen Vorschriften und Bestimmungen.
- Batterien dürfen nicht in den Hausmüll geworfen oder verbrannt werden. Bitte geben Sie Batterien entsprechend der örtlichen Bestimmungen an den Sammelstellen oder Sondermüllabgabestellen ab.
- Dieses Produkt zusammen mit seinen Zubehörteilen fällt in den Geltungsbereich der WEEE-Direktive Ddavon ausgenommen sind die Batterien.

WARNHINWEISE

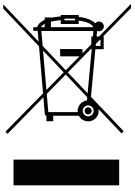
- Fassen Sie das Netzteil nicht mit nassen Händen an.
- Decken Sie die Lüftungsöffnungen nicht mit einem Tuch, einer Zeitung, einem Vorhang oder ähnlichem ab.
- Es dürfen keine Gegenstände mit offener Flamme wie zum Beispiel brennende Kerzen auf dem Gerät abgestellt werden.
- Beachten Sie bei der Entsorgung der verbrauchten Batterien alle geltenden örtlichen und überregionalen Regelungen.
- An allen Geräteseiten muß ein Zwischenraum von ungefähr 0,1 Metern vorhanden sein.
- Auf das Gerät dürfen keine mit Flüssigkeiten gefüllte Behälter wie zum Beispiel Vasen gestellt werden.
- Wenn der Schalter ausgeschaltet ist (Position OFF), ist das Gerät nicht vollständig vom Stromnetz (Spannung) getrennt.
- Um dieses Gerät komplett von der Stromversorgung abzutrennen, ziehen Sie bitte den Netzstecker von der Wandsteckdose ab.
- Stellen Sie bei der Aufstellung des Gerätes sicher, dass die verwendete Wechselstromsteckdose einfach zugängig ist.
- Batterien dürfen keiner extremen Hitze wie direkter Sonneneinstrahlung, Feuer o.ä. ausgesetzt werden.

Español

CE Declaración de Conformidad

Declaramos que este producto, al cual esta declaración se refiere, está conforme a los siguientes estándares:
EN 55032, EN 55024,EN 61000-3-2, EN 61003-3-3,y con los requerimientos de la Norma EMC 2004/108/EC.

ACERCA DEL RECICLAJE



- Los materiales de embalaje de este producto son reciclables y se pueden volver a utilizar.
- Disponga de estos materiales siguiendo los reglamentos de reciclaje de su localidad. Cuando se deshaga de la unidad, cumpla con las reglas o reglamentos locales.
- Las baterías nunca deberán tirarse ni incinerarse. Deberá disponer de ellas siguiendo los reglamentos de su localidad relacionados con los desperdicios químicos.
- Este producto juntamente con los accesorios incluidos con el producto se les aplica la norma RAEE exceptuando a las baterías.

ADVERTENCIAS

- No manipule el adaptador de CA si tiene las manos húmedas.
- No cubra la ventilación con objetos como manteles, periódicos, cortinas, etc.
- No deben colocarse elementos con fuego sobre el equipo, como por ejemplo velas encendidas.
- Cuando se eliminen baterías usadas, deben cumplirse los reglamentos oficiales o las normas de protección del medio ambiente aplicables en su país o en su zona.
- Deje un espacio de aproximadamente 0,1 metro al rededor de la unidad.
- No se deben colocar recipientes que contengan líquidos sobre el aparato, como por ejemplo floreros.
- Cuando el interruptor está en la posición OFF, el aparato no está completamente apagado de la red eléctrica.
- Para desconectar completamente este producto de la red eléctrica, desconecte el enchufe de la toma de la pared.
- Al conectar este producto, asegúrese de que la toma de salida de CA que esté utilizando sea fácilmente accesible.
- No exponga las baterías al calor excesivo, como a la luz solar directa, al fuego, etc.

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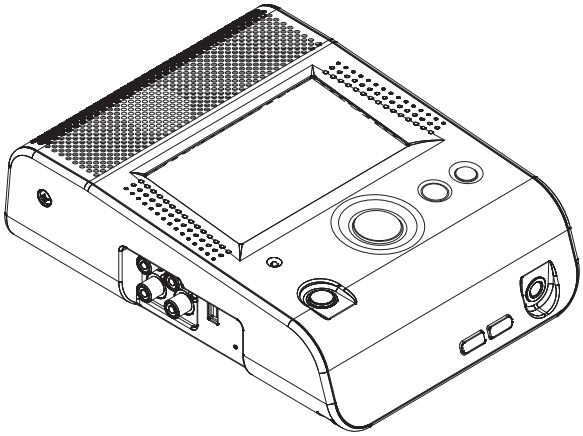
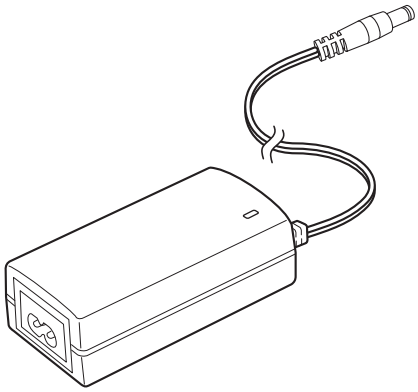
Package Contents

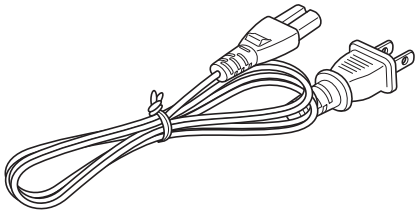
PMR61 Recorder



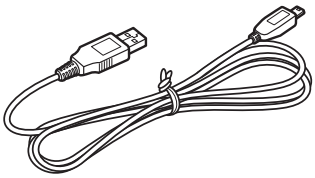
AC adapter (DA61PMR)



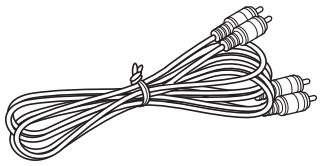
AC Power Cord



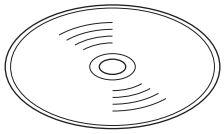
USB cable



RCA stereo audio cable



User Guide (PDF Format) on CD-ROM



Perchlorate Material - special handling may apply,
See www.dtsc.ca.gov/hazardouswaste/perchlorate."

Preparations Before Use

AC Adapter Connection

Connect the power output plug of the adapter to the DC IN jack of the recorder. Connect the AC Power cord to the household AC power receptacle.

AC Adapter Safety

Only use the AC adapter that is provided with the recorder. Use of other adapters may result in damage to the recorder and void the warranty.

Using Batteries

The recorder is designed for use with 4 "AA" size Alkaline or Nickel-Metal Hydride (Ni-MH) batteries.

Please select the correct battery type you are using from the Battery Type option in the Device Settings Menu.

Safety Cautions When Handling Batteries

To avoid leakage, overheating, fire and rupturing, always follow the points below when using batteries with the recorder.

- Electrolyte leakage or corrosion may occur if batteries are kept inside the recorder for prolonged periods of time. Remove batteries prior to prolonged storage of the recorder.
- When installing batteries into the recorder, make sure the batteries are installed with the proper polarity shown inside the battery compartment of the recorder.
- Do not attempt to recharge non-rechargeable batteries. See Setting Battery Type.
- Do not install old/exhausted batteries into the recorder. Dispose of old batteries properly.
- Do not mix the types (Alkaline or Ni-MH) or voltages of batteries.

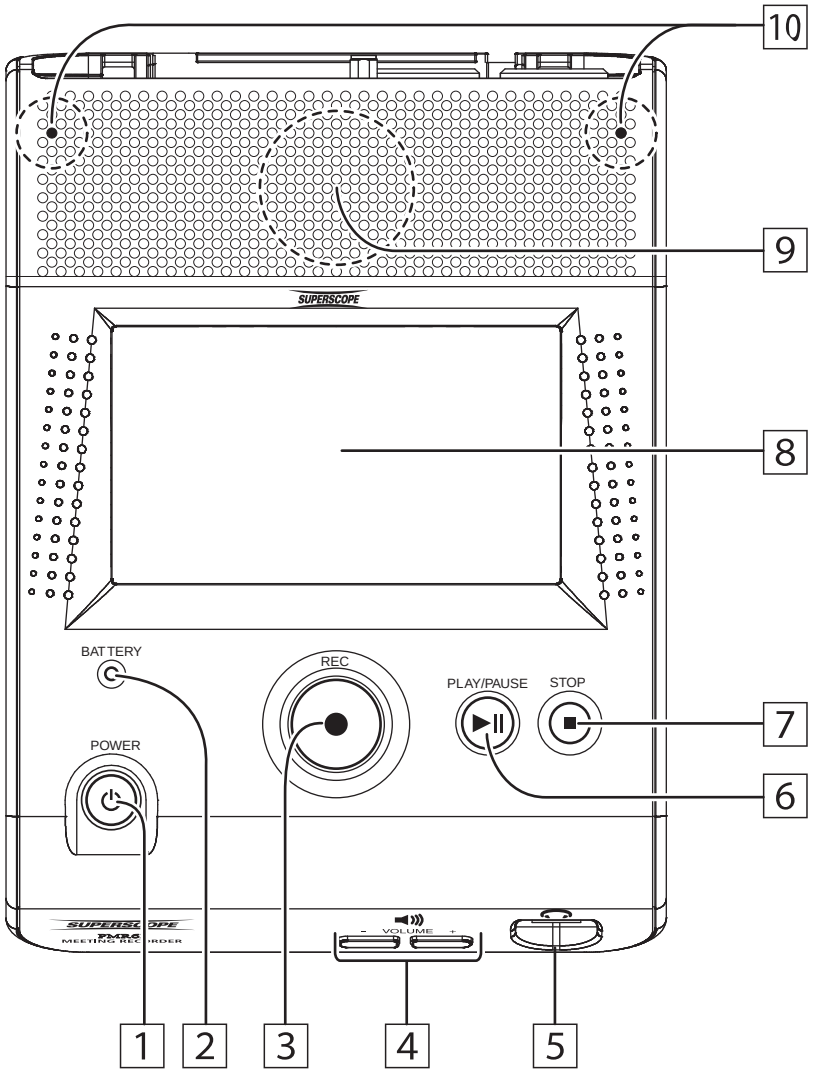
With improper battery use, batteries may rupture, leak, and cause corrosion. Please read the following guidelines carefully:

Batteries may have the same shape, but different voltages. Do not mix different battery types.

If a battery leaks, clean the liquid from the battery compartment and dispose of the leaking battery according to the guidelines of your local government.

Please dispose of all used batteries according to the guidelines of your local government.

Top Panel



1 ⏻ POWER Button

Press the **POWER** button for 1 second to turn power ON. Press and hold **POWER** button for 2 seconds to turn power OFF.

2 Low BATTERY Indicator

LED flashes when the battery power is low. LED remains lit when Ni-MH batteries are charging and the PMR61 is powered off.

3 ● REC Button

From Stop mode, press to enter Record Pause mode or Record mode. The Record LED will flash during Record Pause mode and remain lit during Record mode. During Recording, press ● **REC** button to start a new recording.

4 PHONE SPEAKER Level

Press the **+** and **–** buttons to adjust the volume of the built-in speaker or headphones.

5 HEADPHONE Jack

Connect stereo headphones here. This input accepts a stereo 1/4" plug and when connected automatically mutes the internal speaker.

6 ▶II PLAY/PAUSE Button

From Stop mode, press to start or pause playback. During recording, press to pause recording. Press again to resume recording of the same file.

7 ■ STOP Button

Press to stop playback or recording. Press Stop again to return to the HOME screen.

8 Touch Screen

Touch the touch screen to access recordings, make changes to settings and to operate the PMR61.

9 Internal Speaker

During playback, sound can be heard through the internal speaker unless headphones are connected.

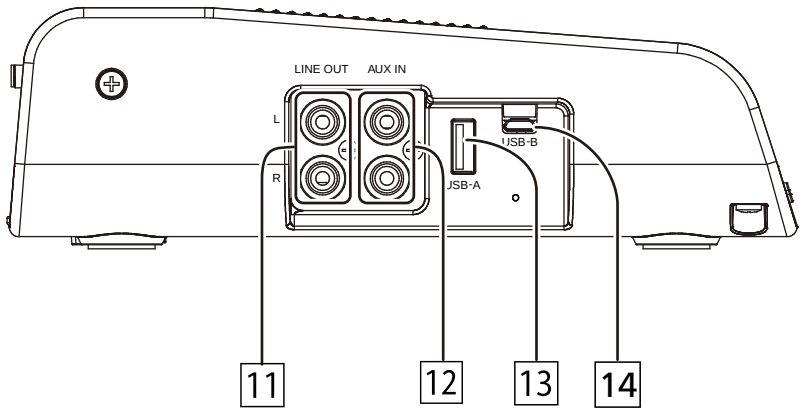
10 Internal Microphones L & R

Internal microphones are automatically turned on when no external microphone or line source is connected.

Note

The ● **REC**, ■ **STOP**, ▶‖ **PLAY / PAUSE**, and 🔊 **PHONE SPEAKER LEVEL** buttons must be pressed and held for approximately 250 milliseconds to be recognized.

■Side Panel



11 LINE OUT Jacks

Connect these outputs to the inputs of another audio device, such as an amplifier, powered speakers, mixing board or alternate recording device.

12 AUX IN Jacks

Use these inputs when connecting line level equipment such as smart phones, tablets, computers, tape and CD players and mixers.

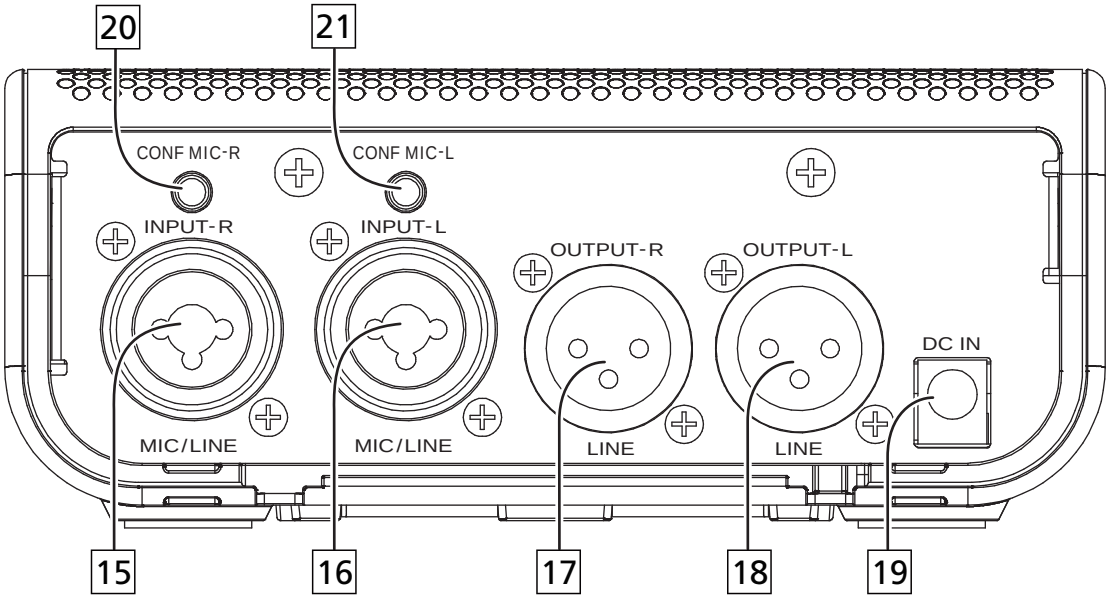
13 USB Connector A

Connect a USB flash drive (media) or other USB storage device. USB media can be connected and removed at anytime except for the following conditions. Recording, Playing, and File writing.

14 USB Connector B

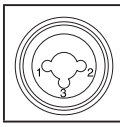
Connect a USB cable here to transfer recordings between the PMR61's Internal Media and a computer. MASS STORAGE MODE is initiated when the PMR61 is connected to a computer with a USB cable and is accessed automatically when in any operating state other than Record, Play, or during file writing processes.

Rear Panel



15 Right MIC/LINE INPUT Jack

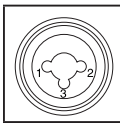
Connect microphones or line level equipment with XLR or ¼" inch plugs.



❶ GND
❷ HOT (w/ Phantom)
❸ COLD.

16 Left MIC/LINE INPUT Jack

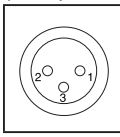
Connect microphones or line level equipment with XLR or ¼" inch plugs.



❶ GND
❷ HOT (w/ Phantom)
❸ COLD.

17 Right Analog Output (Balanced) Jack

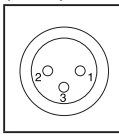
Balanced signals require three separate connections (HOT, COLD, GND):



❶ GND refers to the grounding wire.
❷ HOT refers to the original audio signal.
❸ The COLD signal is the original signal with opposite phase.

18 Left Analog Output (Balanced) Jack

Balanced signals require three separate connections (HOT, COLD, GND):



❶ GND refers to the grounding wire.
❷ HOT refers to the original audio signal.
❸ The COLD signal is the original signal with opposite phase.

19 DC Input Jack

Connect the DA61PMR AC to DC adapter.
Do not use any adapter other than the DA61PMR.

20 Right Conference Microphone Jack

Connect microphone with 3.5mm stereo plug.

21 Left Conference Microphone Jack

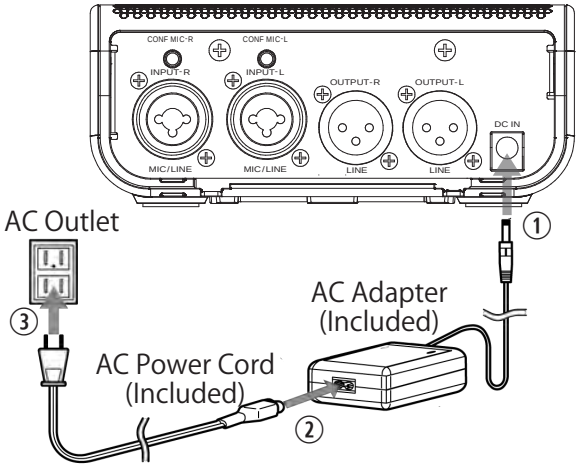
Connect microphone with 3.5mm stereo plug.

5V phantom power is supplied at the CONF MIC inputs.

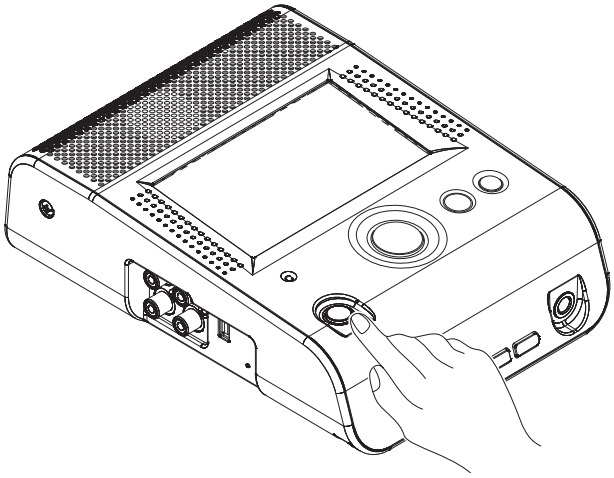
Powering On

PMR61 operates with AC power or AA size batteries. Before using batteries, please refer to "Using Batteries".

Using the AC Adapter



① Connect the AC Adapter to the DC Jack.
② Connect the AC Cord to the Input of the AC Adapter.
③ Connect the AC Plug to AC power source.
④ Press the ⏻ **POWER** button to power on.

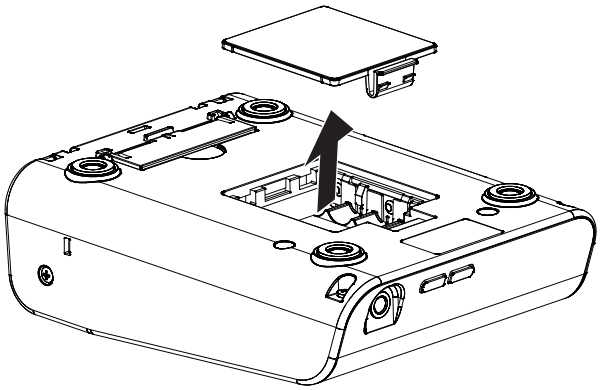


Using Batteries

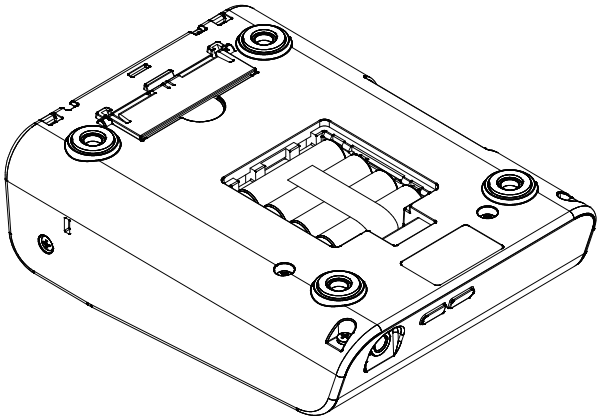
Compatible Batteries

PMR61 works with Alkaline batteries and rechargeable Ni-MH batteries.

1. Remove the battery cover on the bottom of the recorder.



2. Insert four AA size Ni-MH batteries or Alkaline batteries.



3. Close the battery cover.
4. Press the ⏻ **POWER** button to power on.
5. Set the correct Battery Type in the Device Settings Menu.

When inserting batteries always be mindful of polarity (+/-).

※ During battery operation, an icon is displayed in the top left corner of the display showing battery power. See AC ( ) / Battery ( ) icons.

AC Power and Battery Tips

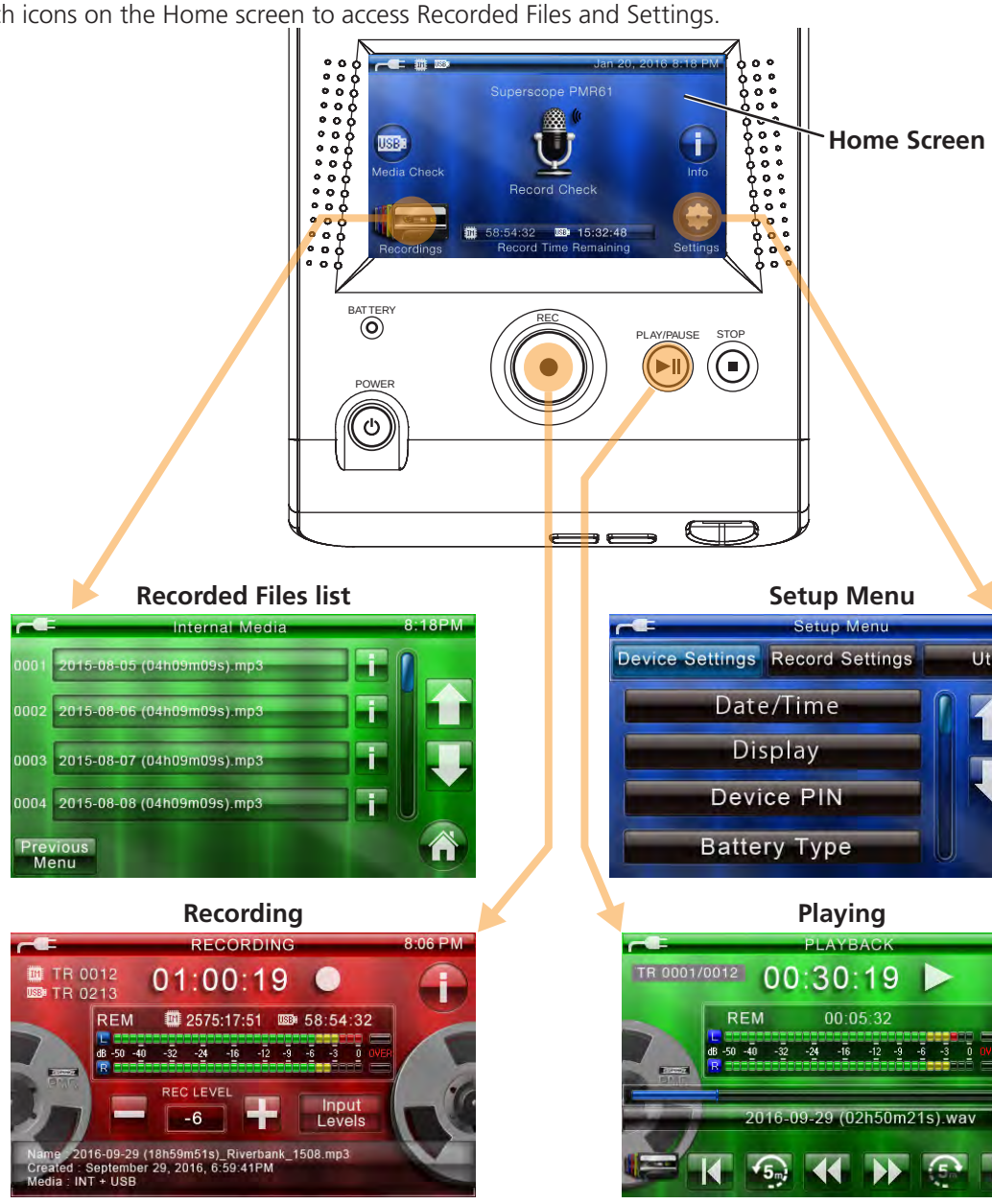
- When the AC adapter is connected while batteries are inserted, AC power will have priority over the battery power supply.
- PMR61 will automatically charge Ni-MH batteries (recommended), whenever AC is connected and Battery selection in the Setup Menu is Ni-MH. The upper right hand corner of the display confirms charging when ( ) is displayed. When using Ni-MH batteries, use models with charge cycle and mHa specifications that best fit your application.
- Low BATTERY LED remains lit when Ni-MH batteries are charging and the PMR61 is powered off.
- Battery icon displays as follows;
  → → → →
  (Full Charged) (Empty)
- It can be helpful to use batteries and the AC power supply together. If the AC power supply is removed unexpectedly, recording or playback will continue without interruption using battery power.
- Do not mix new and old batteries or battery types (Alkaline or Ni-MH).
- When the unit is not in use for a long period of time, please remove batteries to prevent battery leakage.

Notes

If you are using Alkaline batteries, please be sure to select Alkaline (No Charge). PMR61 disables the charging circuit when Alkaline (No Charge) is selected.

Home Screen

1. Touch icons on the Home screen to access Recorded Files and Settings.

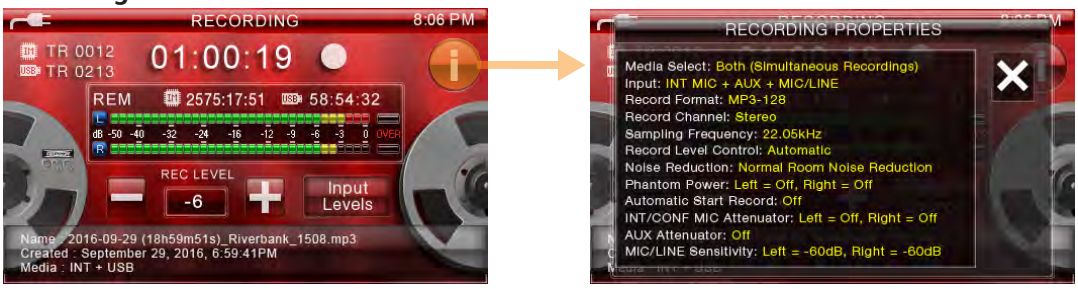


Properties Windows

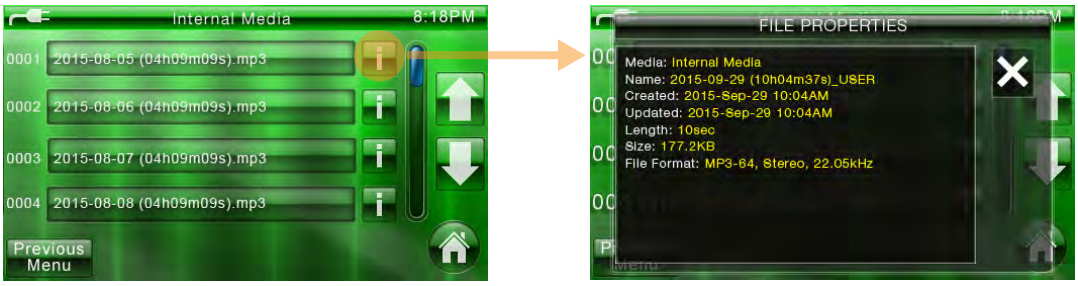
1. Touch ⓘ icon to access the properties windows.

Home Screen

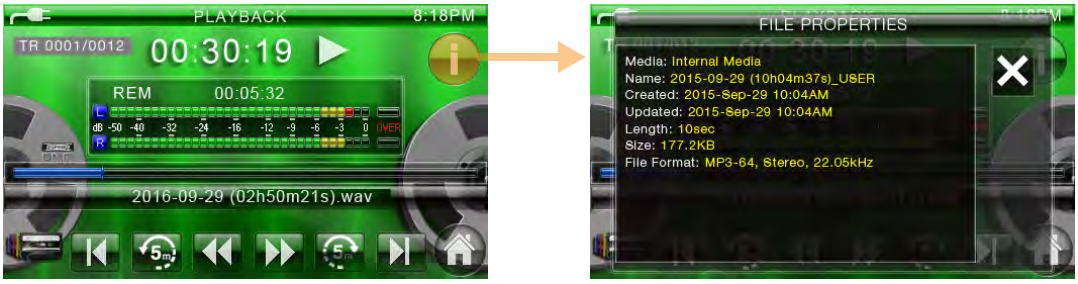
Recording



Recorded Files list



Playing



2. To close the properties window, touch ☒.

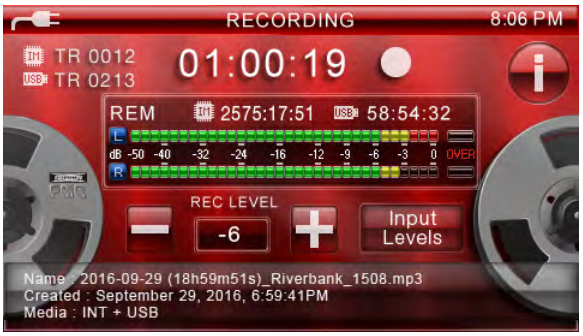
Notes

The info fields "Created" and "Updated" Date/Time are displayed in each unique recorded file's properties by touching the Info Icon.
Created: Date/Time is the original Date/Time that a recording was started in the PMR61.
Updated: Date/Time is when a PMR recording was stopped or transferred to USB Media or Internal Media using the Copy, Move and Backup features.

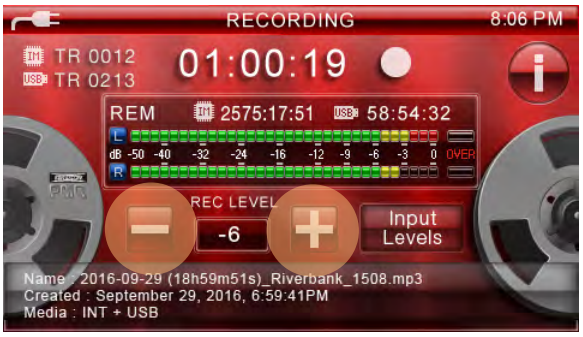
- If a file has no Created: Date/Time when viewed in PMR61 File properties, it was not recorded by a PMR61.
- Recordings transferred from a computer into the PMR61 via Mass Storage Mode will display an Updated: Date/Time per the computer's method.

Recording

1. Press the ● **REC** button to begin recording. The following screen will appear:

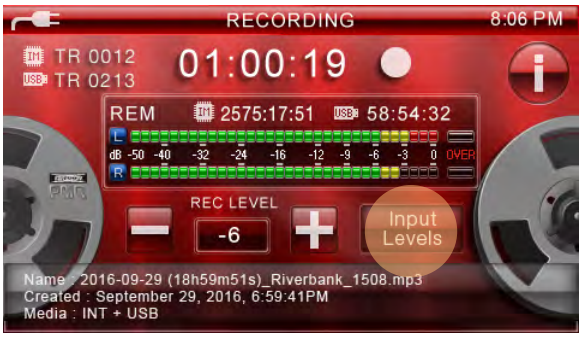


2. Touch the – and + level buttons to adjust the REC LEVEL. When the Record Level Control is set to Automatic, manual adjustment is not available.

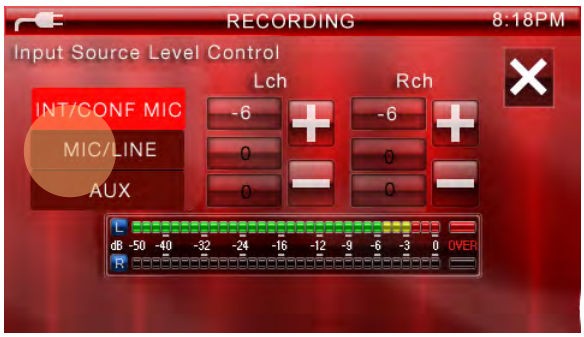


3. To pause the recording, press the ▶‖ **PLAY/PAUSE** button. To resume recording press the ▶‖ **PLAY/PAUSE** button again or ● **REC** button.

4. To select and adjust Input source levels, touch Input Levels.



5. Touch the input source to select it. Then touch + or – to adjust the levels. Touch the ☒ to close the Input Source Levels Controls screen.



6. To stop recording, press the ■ **STOP** button. The recorded file will appear in the File Options screen.

Touch the ⬆ and ⬇ arrows to scroll through options associated with the recorded file that is displayed at the top of the screen. Menu selections Rename, Copy, Move or Delete require a PIN for operation if a PIN has been set and turned ON in the Device Settings.

When the Record Level Control is set to Manual, the PMR61's headphone and line output signal includes any input source after Noise Reduction but before analog to digital conversion and the codec. When the Record Level Control is set to Automatic, the headphone and line output signal includes any input source after Noise Reduction and analog to digital conversion but before the codec. To hear what is being recorded, use "Record Check" to record and playback a test file.

File Limits

Single File Size	2GB

※ Note: During the transition time, audio may be lost. When the above limit is exceeded during recording, a new file is created automatically and recording continues.

Using RECORD CHECK

Record Check is a 15-second process that automatically scans multiple input sources and automatically selects correct sensitivities, attenuation, input levels, and record level. When the Record Check process is COMPLETED, you can view the settings and listen to a 5-second test file to audition the audio performance. The test file will be automatically discarded. If you are not satisfied with the recorded performance, you can modify the settings manually or run the Record Check process again.

1. Touch on the HOME screen to begin Record Check.

The Record Check screen will appear. Speak into all microphones that will be used for recording and count down from 15 to 0.

2. Record Check will automatically detect and set input sensitivities, input source levels, recording levels, and make a brief test recording. To hear the results, touch Play Test File.

The PLAYBACK screen will appear and automatically play the "Record Check" file for you to listen to. After playback, PMR61 will return to the Record Check screen. You can listen to the test file again or return to the Home screen and run Record Check again.

Note

- During Record Check, be sure to provide a normal signal throughout the 15 second Record Check process to any input that you intend to utilize for recording.
- Pressing the Stop button during the Record Check process will cancel Record Check.
- Record Check is not available when the Record Level Control is set to Automatic.

Checking USB Media

The USB Media Check feature is a speed test designed to report compatibility of USB media. If using USB media, always run the USB Media Check prior to use.

1. Insert USB media, wait for media to be recognized, and then touch USB Media Check.

2. Touch OK.

When the USB Media Check process is completed, one of the three results will be displayed:
Good – USB media is suitable for recording (indicated by white USB icon).

Poor – USB media is not suitable for recording (indicated by yellow USB icon).

No Good - USB media is not suitable for use (no USB icon indication).

3. Touch to return to the HOME screen. Touch Previous Menu to return to the previous Menu.

Note

- Detected USB media that has not been checked using USB Media Check will be indicated by yellow USB Icon.
- Not all USB media is created equal. PMR61's USB Media Check feature is a speed test designed to report compatibility prior to recording, but this alone will not guarantee USB media will remain in its tested condition.

Recording Setup

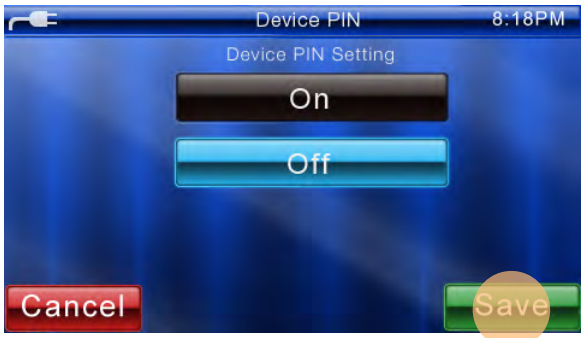
Setting Record Settings

1. From the HOME screen, touch Settings to access the Setup Menu.

When a PIN (Password Identification Number) has been set, you must input it here to access or make changes in the Setup Menu.

2. Touch the number keys to enter the PIN number and then touch Done.

To reset the PIN press On, enter up to 12 characters and touch Done. Confirm the Device PIN by entering the PIN again and touch Save. To disable the PIN function, touch Off followed by Save.



3. To make changes to the Record Settings, touch Record Settings.

The following screen will appear:

Selecting Media

1. Touch Media Select to access the options for storing PMR61 recorded files.

2. Touch the media where you want to write and store recorded files. If you select Internal, recorded files will be stored in the Internal media. If you select USB, recorded files will be stored in the USB media. If you select Both, recorded files will be stored simultaneously in Internal and USB media.

3. Touch Save to accept your selection. Touch Cancel to ignore changes and return to the Record Settings in the Setup Menu.

Setting Record Parameters

1. To access the recording parameters that determine the quality of audio and associated file sizes, touch Record Parameters.

2. To select sample frequencies and bit rates for your recordings, touch the parameters. The active File Size calculator will change as parameters are selected.

3. Touch Save to accept the settings. Touch Cancel to ignore changes and return to the Record Settings in the Setup Menu.

Selecting Record Level Control

1. Touch Record Level Control to access Record Level Control options.

2. Touch Automatic or Manual. If you select Automatic, Record levels are automatically adjusted depending on the level detected during recording.

Touch Save to accept your selection. Touch Cancel to ignore changes and return to the Record Settings in the Setup Menu.

Selecting Phantom Power

1. Touch Phantom Power to select Phantom Power options.

2. Touch On or Off for each channel. Select On to provide +48V Phantom Power to the MIC/LINE (XLR) microphone inputs. Select Off if condenser microphones are not connected to the XLR inputs.

3. Touch Save to accept your selection. Touch Cancel to ignore changes and return to the Record Settings in the Setup Menu.

Setting Microphone Attenuator

1. To access the attenuation settings for internal or 3.5 mm connected conference microphones, touch INT/CONF Attenuator.

2. Touch On to apply -20 dB attenuation to the Left or Right Channels.

3. Touch Save to accept the setting. Touch Cancel to ignore changes and return to the Record Settings in the Setup Menu.

Setting Aux Input Attenuator

1. To access the attenuation settings for the AUX inputs touch AUX Attenuator.

2. Touch On to apply -20 dB attenuation to both the Left and Right Channels.

3. Touch Save to accept your selection. Touch Cancel to ignore changes and return to the Record Settings in the Setup Menu.

Setting MIC/LINE Sensitivity

1. To access MIC/LINE Sensitivity settings for the Left and Right Channels, touch MIC/LINE Sensitivity.

2. Touch Microphone or Line of each channel to select the Input Sensitivity.

3. Touch Save to accept your selection. Touch Cancel to ignore changes and return to the Record Settings in the Setup Menu.

Selecting Noise Reduction

1. To access Noise Reduction settings, touch Noise Reduction.

2. To select a low cut filter of 80 Hz, touch Normal Room Reduction. To select a low cut filter of 400 Hz, touch Maximum Room Reduction. To turn the low cut filter Off, touch Off.

3. Touch Save to accept your selection. Touch Cancel to ignore changes and return to the Record Settings in the Setup Menu.

Note

Noise reduction is not applied to line level signals.

Internal Microphones

Internal Microphones are automatically turned OFF when external inputs are detected. To change this setting, touch Internal Microphones.

1. To access Internal Microphones settings, use the ⬆ / ⬇ to scroll to Internal Microphones and touch to select.

2. To enable internal microphones when MIC/LINE or AUX inputs are connected, touch Yes.

3. Touch Save to accept your selection. Touch Cancel to ignore changes and return to the Record Settings in the Setup Menu.

Note

Internal Microphones cannot be turned on if both 3.5mm Conference Microphone inputs are connected. If only one 3.5mm Conference Microphone is connected, one internal microphone will be enabled when other inputs are connected.

Setting Auto Start Record

The PMR61 can be set to automatically start recording when powered on or when an audio threshold is detected.

Power On Record

1. To access Automatic Start Record options, touch Automatic Start Record.

2. To automatically start recording when the PMR61 is powered ON, touch Power On Record. Please note it takes at least 15 seconds for PMR to power on before recording can begin.

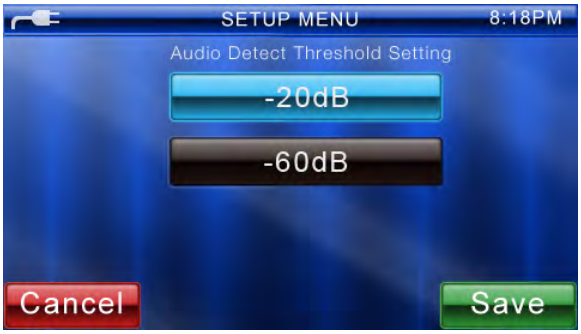
3. Touch Save to accept your selection. Touch Cancel to ignore changes and return to the Record Settings in the Setup Menu.

Audio Detect Record

1. To access the selections to automatically start recording, touch Automatic Start Record.

2. To automatically start recording when an audio threshold is detected, Touch Audio Detect Threshold and then touch Settings.

3. To select an audio threshold setting necessary to automatically start recording, touch -20 dB (less sensitive) or -60 dB (more sensitive).



4. Touch Save to accept your selection. Touch Cancel to ignore changes and return to the previous screen.

5. Press the ● **REC** button to enter the Record mode. The following screen will appear and ● **REC** button flashes during RECORD PAUSE until the threshold signal is detected.

Setting One Touch Record

1. To select the behavior of the ● **REC** button when pressed, touch One Touch Record.

2. To enter Record mode when pressing the ● **REC** button once, touch On. To enter Record Pause mode with one press and begin recording when ● **REC** button is pressed a second time, touch Off. One Touch Record OFF is a useful tool if you regularly want to manually adjust input and record levels prior to recording.

3. Touch Save to accept your selection. Touch Cancel to ignore changes and return to the Record Settings in the Setup Menu.

Play

Playing

1. Press the ▶‖ **PLAY/PAUSE** button to start playback. When you press, the currently selected file is played.

2. Press the ▶‖ **PLAY/PAUSE** button again to pause playback. Play restarts when you press the ▶‖ **PLAY/PAUSE** button again.

3. To fast-forward the file, press and hold the ▶▶. To rewind the file, press and hold the ◀◀. You can adjust the Time Jump Interval for ◀◀/ ▶▶ in the Device Settings.

4. To jump forward five minutes, touch 5m. To jump back five minutes, touch the 5m.

5. To play the previous file, touch the ⏮. To play the next file, touch the ⏭.

Play Mode

The playback mode can be set for Single track playback or Continuous track playback.

1. Touch Play Mode to access Single or Continuous playback.

2. To select continuous track playback, touch Continuous. To select single track playback, touch Single.

3. Touch Save to accept your selection. Touch Cancel to ignore changes and return to the Device Settings in the Setup Menu.

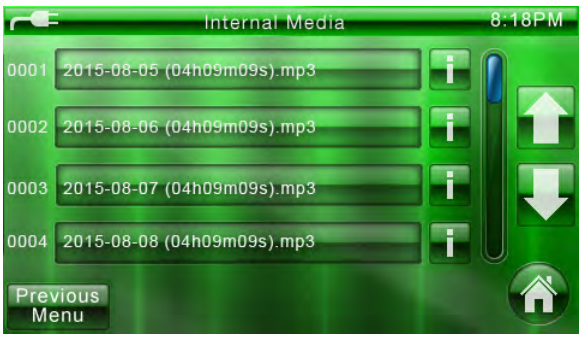
Selecting a Recorded File

1. At anytime during Playback, you can touch to access all recorded files from either the Internal or USB Media.

From the HOME ( ) screen, touch to access recorded files.

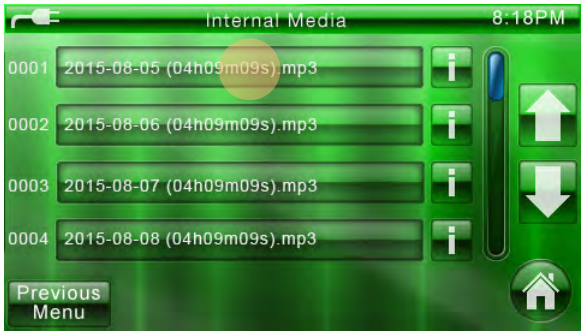
2. Touch either or to view the list of recorded files within that specific media.

3. Touch ⬆ or ⬇, to scroll through the list of recorded files.

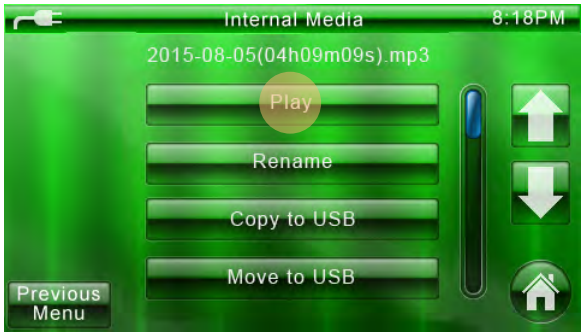


Playing a Recorded File

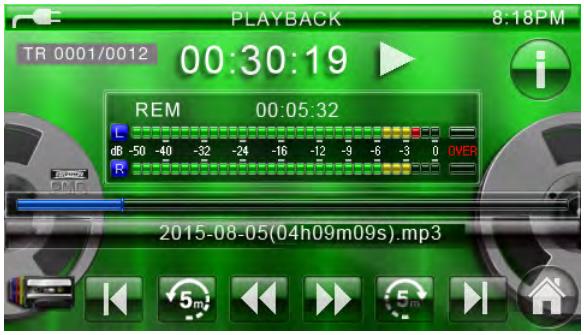
1. Touch a recorded file to select it for playback.



2. Touch Play.

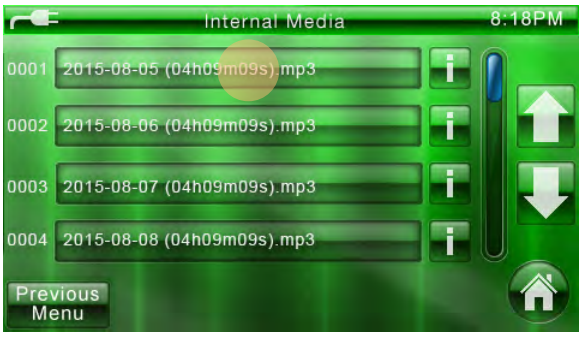


The PLAYBACK screen will appear and the recorded file will begin playback.



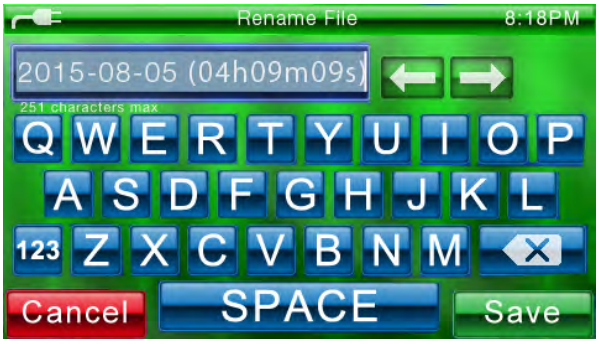
Renaming a Recorded File

1. Use the ⬆ / ⬇ to scroll to the recorded file you want to rename and touch the file.



2. Touch Rename.

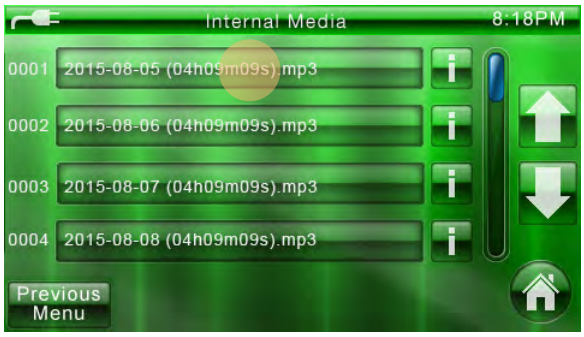
Use the keyboard to rename the recorded file name. Touch the display to position the cursor or touch and drag to select the characters you wish to erase. To erase all characters, touch the ⌫ when the file name is highlighted or simply enter any character.



3. Touch Save to accept the setting. Touch Cancel to ignore changes and return to the previous screen.

Copy to USB Media

1. From the Internal Media screen, touch the file that you want to copy to USB media.



2. Touch Copy to USB.

3. Touch Yes to copy the file.

4. Touch to return to the HOME screen. Touch Previous Menu to return to the previous Menu.

Move to USB Media

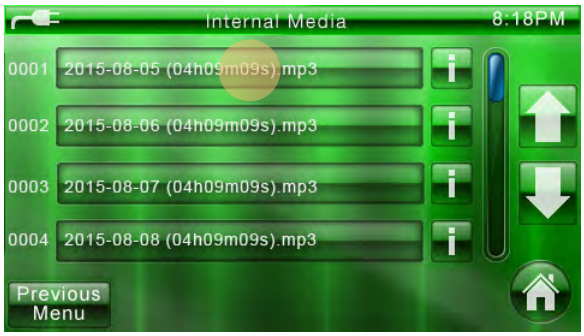
1. From the Internal Media screen, use the ⬆ and ⬇ to scroll to the recorded file you want to move. Touch the file name to select it.

2. Touch Move to USB. USB media must be inserted and detected.

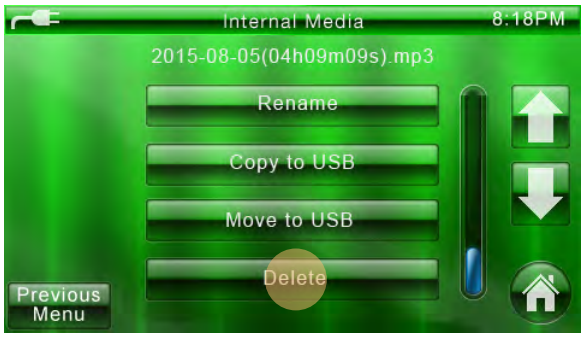
3. Touch Yes to remove the file from Internal Media and add it to the USB Media.

Delete a Recorded File

1. From the Media screen, use the ⬆ and ⬇ to scroll to the recorded file you want to delete. Touch the file name to select it.



2. Scroll down and touch Delete.



3. Confirm the file that is displayed and touch Yes to permanently delete it.

Note

To permanently delete all recorded files from Internal or USB media, select the Format Media option from Utility in the Setup Menu.

Settings

Open the Setup Menu

1. To access Device Settings, Record Settings and Utilities, touch Settings.

If a PIN has been previously set in the PMR61, enter it now to access the Setup Menu.

2. Touch Done to accept the PIN.

The following screen will appear.

In the next step, you can change each setting. For the Record Settings, please refer to Recording Setup on page 18.

Device Settings

Setting Date and Time

Recorded files are automatically named according to the set date and time. To access the settings, touch Date/Time.

Setting Time

1. Touch Date/Time.

2. Touch Set Time.

3. Change Time values by touching ⬆ or ⬇.

4. To accept the settings and return to the Time/Date menu screen, touch Save. Touch Cancel to ignore changes and return to the Time/Date menu screen.

Setting Date

1. To access the Date settings, touch Date/Time.

2. Touch Set Date.

3. Change Date values by touching the ⬆ or ⬇.

4. To accept the settings and return to the Date/Time menu screen, touch Save. Touch Cancel to ignore changes and return to the Date/Time menu screen.

Setting Daylight Saving Time

1. To access the settings for daylight saving time, touch Date/Time.

2. Touch Set Daylight Saving.

3. Touch On and then touch Settings.

4. To set the daylight saving start date and time, touch Start Date. To set the daylight saving end date and time, touch End Date.

5. Change Date and Time values by touching ⬆ or ⬇ .

6. To accept the settings and return to the previous menu screen, touch Save. Touch Cancel to ignore changes and return to the previous menu screen.

Selecting Time Format

1. To access the 12 hour (standard) or 24 hour (military) time formats, touch Date/Time.

2. Touch Time Format.

3. Touch 12 Hour (Standard) or 24 Hour (Military) to select Time Format.

4. To accept your selection and return to the previous menu screen, touch Save. Touch Cancel to ignore changes and return to the previous menu screen.

Setting Display

Setting Backlight

1. To adjust the screen brightness level, touch Display.

2. Touch Brightness.

3. Adjust the Backlight Brightness by touching ⬆ or ⬇ .

4. To accept the setting and return to the previous menu screen, touch Save. Touch Cancel to ignore changes and return to the Display Settings menu.

Setting Sleep Mode Time

The PMR61 can enter a power saving mode if no operation has occurred after a set amount of time.

1. To access the Sleep Mode Settings, touch Display.

2. Touch Sleep Mode.

3. To adjust the time to Turn off the display and Power off PMR61, touch the area you want to change.

4. Adjust the time by touching ⬆ or ⬇ .

5. To accept the setting and return to the Sleep Mode Settings, touch Save. Touch Cancel to ignore changes and return to the Sleep Mode Settings.

Setting Home Screen Name

1. To change the name in the Home Screen, touch Display.

2. Touch Add Name to Home Screen.

3. Use the keyboard to enter the Name. Touch the display to position the cursor or touch and drag to select the characters you wish to erase. To erase all characters, touch the ⌫ when the name is highlighted or simply enter any character.

4. To accept the name and return to the Display Settings, touch Save. Touch Cancel to ignore changes and return to the Display Settings menu.

Setting a PIN

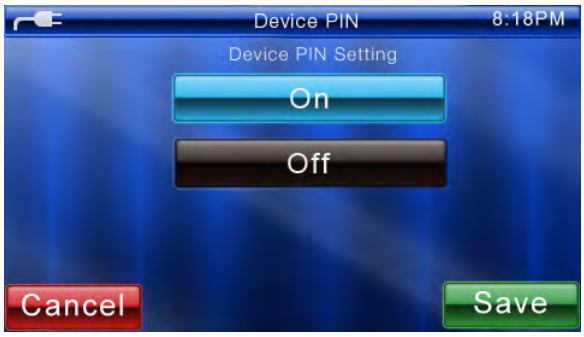
1. To set a PIN to restrict access to the Setup Menu and protect recorded files, touch Device PIN.

2. Touch On.

If you do not want to change a previously entered PIN, touch Cancel. PMR will return to the Previous screen. Touch Cancel on the Device PIN screen to ignore changes and return to the Device Settings screen.

3. Enter a Device PIN and then touch Done.
A maximum of 12 characters can be entered.

4. Enter the Device PIN again to confirm and then touch Save.



5. Touch Save to accept the setting and return to the Device Settings screen. To ignore and return to the previous screen, touch Cancel.

Note

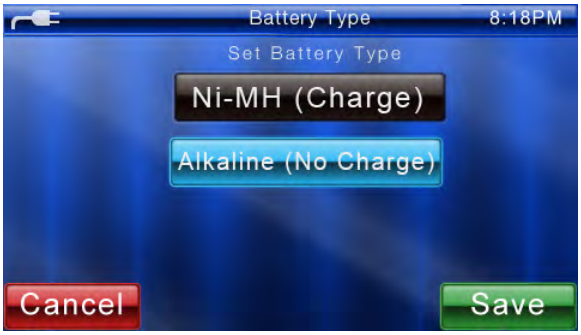
To override a forgotten PIN, Power ON the PMR61 while holding the ■ **STOP** button. This will allow full access to all PMR61 functions. You can set a new PIN from Setup Menu Device Settings.

Setting Battery Type

When using batteries, the battery type should be correctly set. If you set the wrong battery type, the battery indicator is not displayed correctly. Please note that Ni-MH batteries are internally charged in the PMR61 when the Battery Type is set to NI-MH (Charge).

1. To access the battery type, touch Battery Type.

2. Touch Ni-MH when using Ni-MH batteries. Touch Alkaline when using alkaline batteries.



3. Touch Save to accept your selection. Touch Cancel to ignore changes and return to the Device Settings in the Setup Menu.

Notes

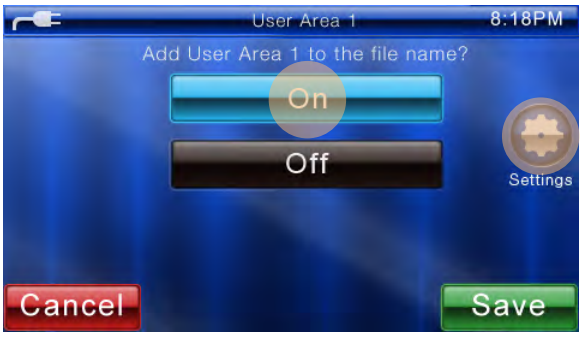
If you are using Alkaline batteries, please be sure to select Alkaline (No Charge). PMR61 disables the charging circuit when Alkaline (No charge) is selected.

Setting User Areas

User Areas 1 and 2 are descriptions that can been added to the File names of PMR61 recordings.

1. To access User Areas, touch User Area 1 or User Area 2/Track#.

2. Touch On and then touch Settings to enter or display user data that has been previously set.



3. Type a User Area description using the keyboard. To erase characters to the left of the cursor, touch the ⌫ or touch and drag to select the characters you wish to erase. You can enter up to 12 characters.

4. Touch Save to save the User Area description. The following screen will appear:

5. Touch Save to accept your selection. Touch Cancel to ignore changes and return to the Device Settings in the Setup Menu.

Add Track Number Feature

Track numbers can been added to File names of PMR61 recordings using User Area 2.

1. Touch Device Settings and use ⬆ or ⬇ to scroll to and touch User Area 2/Track #.

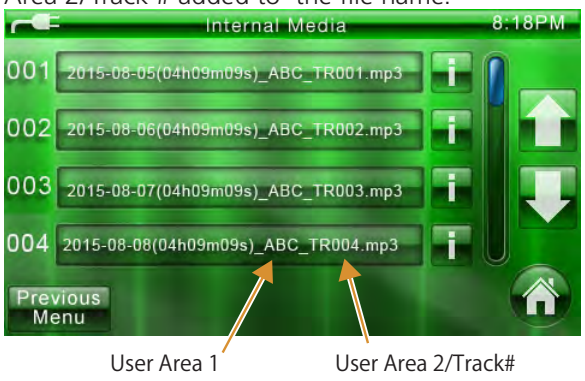
2. If User Area 2 Track# is the selection, the following Setting screen will be displayed.

If Track Number is the selection and the ⚙ is touched, the following Menu screen will be displayed. Touch to select the Media type that will determine track numbers in the file name.

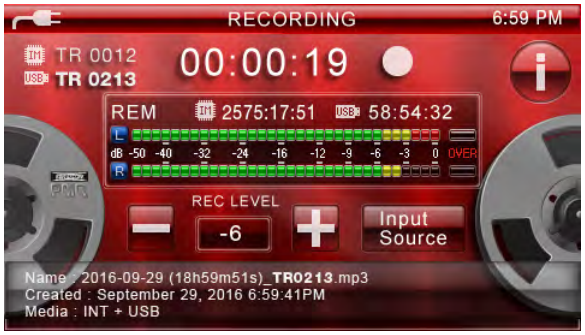
3. When User Area 2 is touched followed by the Settings ICON, the keyboard Input screen is displayed.

4. If Off is selected, User Area 2 and Track Number will not be displayed in the file name.

The example below shows User Area 1 and User Area 2/Track # added to the file name.



When track number is selected for User Area 2, the track position number for the selected media is added to the file name.



The screen example above shows USB media was set to determine the track number that has been added to the file name by displaying BOLD type.

Setting File Name Format

File Name Format is the order that data appears in the name of PMR61 recorded files including; Date/Time, User Area 1 and User Area 2/Track#.

1. To access the formats touch File Name Format in the Device Settings of the Setup Menu.

2. There are 5 formats that determine the order of data displayed in the file name. Touch ⬆ / ⬇ to scroll up and down and touch the format you want to select.

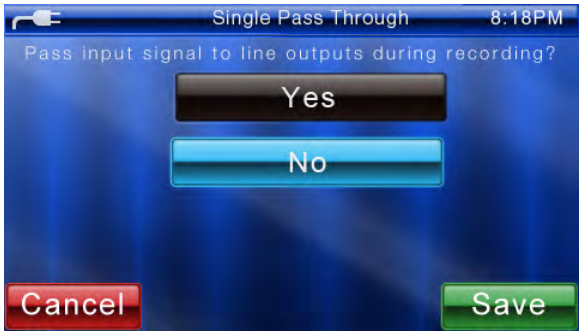
3. Touch Save to accept your selection. Touch Cancel to ignore changes and return to the previous screen.

Setting Audio Output

1. To access the audio output settings, touch Audio Output.

2. To access the settings, touch Signal Pass Through or Mono Output.

3. To pass input sources (including the internal microphones) to the XLR and RCA line outputs during recording, touch Signal Pass Through, then touch Yes. If your selection is No, signal will not pass through to the Line Outputs during Recording.



4. Touch Save to save your selection. Touch Cancel to ignore changes and return to the previous screen.

5. To sum both the left and right channels to output as mono from either the left and/or right XLR and RCA line outputs, touch Mono Output, then touch Yes. Touch No to output as Stereo.

6. Touch Save to save your selection. Touch Cancel to ignore changes and return to the previous screen.

Setting Jump Interval Time

From the playback screen you can quickly jump forward and back to review a recording while it is playing by using the and buttons.

1. To access the selections for the Time Jump Interval, touch Time Jump Interval.

2. Touch ⬆ or ⬇ to scroll through the Menu options. Touch the number of seconds you want to set for the Time Jump Interval.

3. Touch Save to accept your selection. Touch Cancel to ignore changes and return to Device Settings in the Setup Menu.

Utility

Utility Menu

1. To access the Setup Menu touch Settings.

The following screen will appear:

2. Touch Utility.

The following screen will appear.

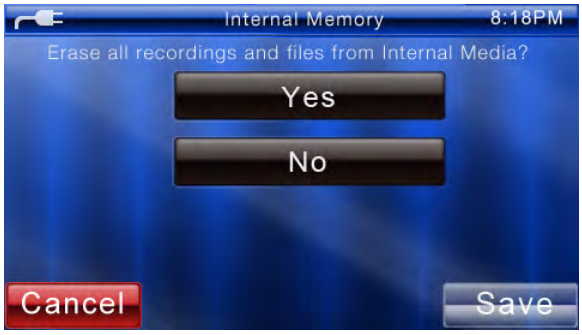
Format Media

Format Media erases all of the recordings and files in the selected Media.

1. Touch Format Media.

2. To select the Media that you want to Format, touch Internal or USB. No option for USB will be displayed unless USB media is inserted and detected.

The following screen will appear:



3. Touch Yes if you want to permanently erase all recordings and files from the selected media.

4. Touch Save to begin formatting the selected media. Touch Cancel to ignore changes and return to the Format Media screen.

Backup Media

1. To copy all recordings from either the Internal or USB media, touch Backup Media.

2. Touch Internal or USB to select Media to be backed up after USB media is inserted and detected.

3. Confirm the operation displayed on screen. Then touch OK. If you want to ignore and return to the previous screen touch Cancel.

Save Settings to USB Media

1. To save PMR61 settings to USB Media, touch Save Settings."

The following screen will appear:

2. Touch Yes.

3. Touch Save to accept your selection. Touch Cancel to ignore changes and return to Utility in the Setup Menu.

Load Settings from USB Media

1. To load PMR61 settings from USB Media, touch Load Settings.

The following screen will appear:

2. Touch Yes.

3. Touch Save to load the settings from USB. Touch Cancel to ignore changes and return to Utility in the Setup Menu.

Delete Recorded Files Automatically

Recorded files can be designated for automatic deletion from Internal Media when prompted by the Power Off command. The Date/Time for auto delete is based on the Updated: Date/Time reported in the file properties.

1. To access Auto Delete Recordings settings, touch Auto Delete Recordings.
   Note: Files are deleted from Internal Media only when using the Auto Delete Recordings feature.

2. To select the number of days before recorded files are automatically deleted, touch ⬆ or ⬇. When Never is selected, the recorded files are not deleted automatically. Please select the setting date from the following. 7, 15, 30, 90, 180 days and Never

3. Touch Save to accept your selection. Touch Cancel to ignore changes and return to Utility in the Setup Menu.

4. When the Power button is pressed and held for 2 seconds to power off, the message screen below will be displayed when recordings in internal memory exceed the set number of days in the Auto Delete Recordings setting. The Auto Delete process will begin after 10 seconds and then the PMR61 will power off when complete. If Cancel is touched within 10 seconds, the Auto Delete process will be canceled and PMR will power off.

5. This screen is displayed when files are deleting. When the process is completed PMR will Power Off automatically.

Restore Factory Settings

1. To restore PMR61 to factory default settings, touch Restore to Factory Settings.

The following screen will appear:

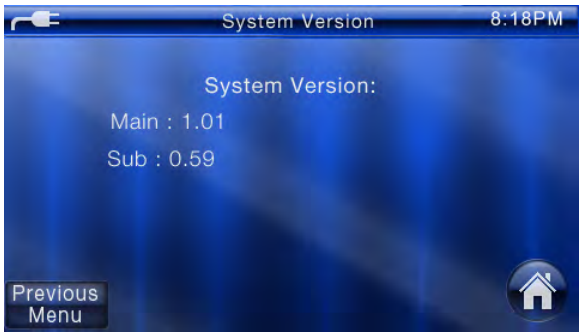
2. Touch Yes. If you touch No the settings will not be restored.

3. Touch Save to accept your selection. Touch Cancel to ignore changes and return to Utility in the Setup Menu.

Confirm System Version

1. To confirm the System Version, scroll down and touch System Version.

PMR61 System Version will be displayed.

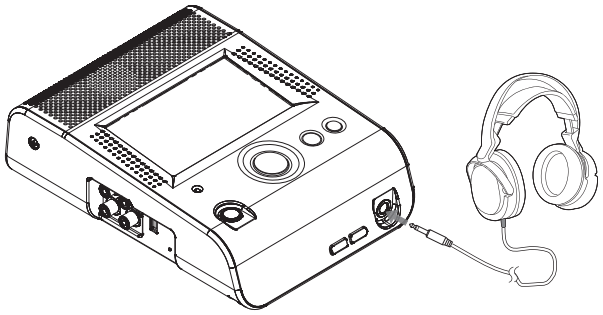


2. Touch to return to the HOME screen. Touch Previous Menu to return to the previous Menu.

Speaker Setup

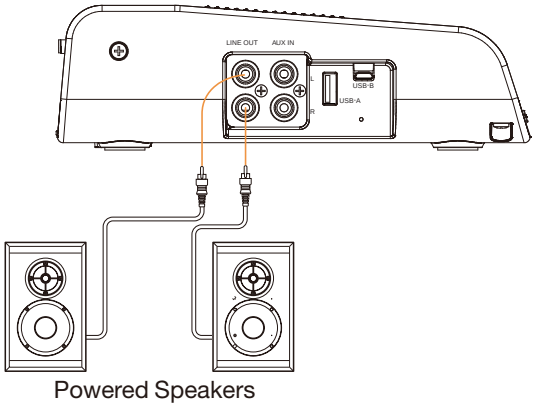
Using Headphones or the Internal Speaker

When using headphones or the internal speaker, adjust volume by pressing the – and + VOLUME level buttons on the front panel. The internal speaker will be automatically muted when recording or when headphones are connected.

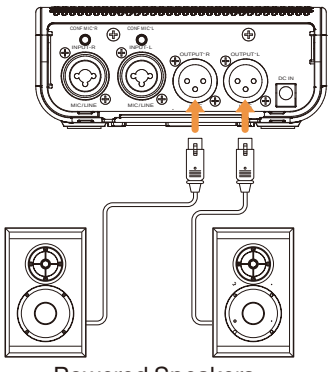


External Speakers

When using powered speakers, speakers with built-in amplifiers, connect the PMR61 right and left LINE OUT or XLR balanced outputs to the line inputs of your powered speakers. Use the volume control on the powered speakers to adjust level.



Powered Speakers



Powered Speakers

Computer Connection

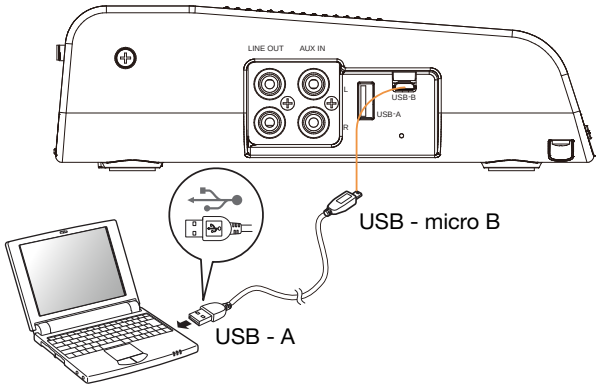
By connecting PMR61 to a PC or Mac, you can transfer recorded files for editing or data backup. When the PMR61 is in MASS STORAGE MODE, your computer will be able to access recorded files in the Internal Media.

1. Confirm that the recorder is in any operating state other than Record, Play, and file writing to automatically activate MASS STORAGE MODE.

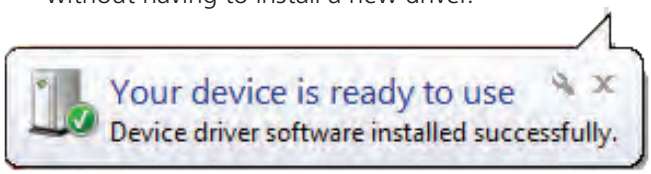
※ When PMR61 is in MASS STORAGE MODE, all other features will be inactive.

2. Use the included USB cable to connect the recorder to your computer.

Do not connect to a computer before powering on the PMR61.



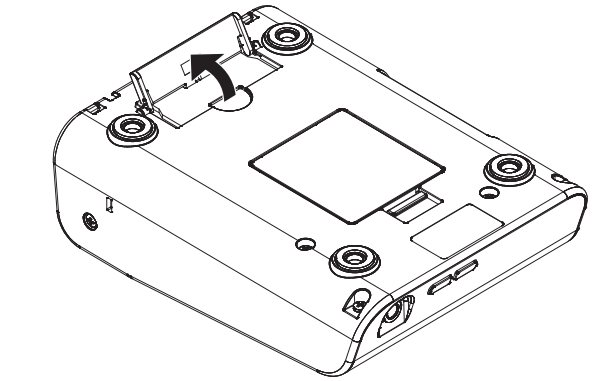
3. The PMR61 will be recognized as an external drive without having to install a new driver.

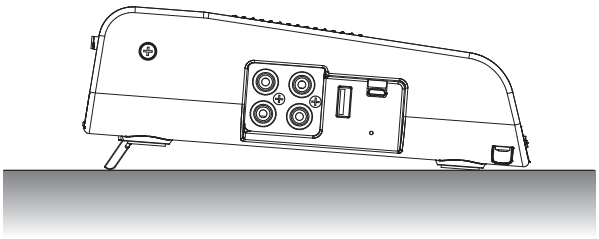


4. Locate the PMR61 in your computer's directory, and copy, move and delete files using your computer's operating system. Recordings transferred from a computer to the PMR61 are placed in it's ROOT directory. Folders from a computer transferred to PMR61 cannot be viewed or accessed in the PMR61.

■Using Anti-Glare Stand

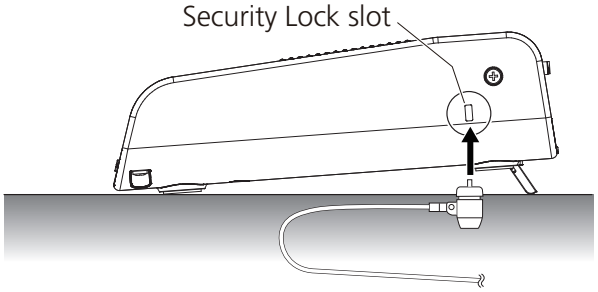
PMR61 includes a simple flip-up stand designed to reduce glare from overhead lighting that can obstruct the viewing of the color touchscreen display. Use a finger to gently unlock and raise the stand. Lower the stand prior to placing PMR61 in a case or its packing materials.





■Using Security Lock

Insert a security lock on the right panel of the recorder.



※ The security lock is not supplied.

Appendix

Main Menu (1 of 2)

Menu Item	Sub Menu	Display	Settings	Default Settings
Device Settings	Date/Time	Set Time	Hour, Minute, AM/PM	—
		Set Date	Month, Day, Year	—
		Set Daylight Saving	On	Off
			Off	
		Time Format	12 Hour	12 Hour
			24 Hour	
	Display	Brightness	Set Screen Brightness Level	5
		Sleep Mode	Turn off the display On Battery	5 minutes
			Turn off the display Plugged in	Never
			Power off PMR61 On Battery	Never
			Power off PMR61 Plugged in	Never
		Add Name to Home Screen	Characters Input	Superscope PMR61
	Device PIN	On	Characters Input	Off
		Off		
	Battery Type	Ni-MH (Charge)	—	Alkaline (No Charge)
		Alkaline (No Charge)	—	
	User Area 1	On	Characters Input	Off
		Off	—	
	User Area 2/Track #	User Area 2	Characters Input	Off
		Track Number	IM, USB	IM
		Off	—	Off
	File Name Format	To choose from six types	—	Date/Time User Area 1 User Area 2
	Audio Output	Signal Pass Though	Yes	Yes
			No	
		Mono Output	Yes	No
			No	
	Play Mode	Single	—	Continuous
		Continuous	—	
	Time Jump Interval	1 s - 60 s	—	15 s

Main Menu (2 of 2)

Menu Item	Sub Menu	Display	Settings	Default Settings
Record Settings	Media Select	Internal	—	Internal
		USB	—	
		Both (Simultaneous Recordings)	—	
	Record Parameters	See Record Settings	—	MP3, 128 kbps, 44.1 kHz, Stereo
	Record Level Control	Automatic	—	Manual
		Manual	—	
	Phantom Power	Lch On	—	Off
		Lch Off	—	
		Rch On	—	Off
		Rch Off	—	
	INT/CONF MIC Attenuator	Lch Off	—	Off
		Lch On	—	
		Rch Off	—	Off
		Rch On	—	
	AUX Attenuator	Off	—	Off
		On	—	
	MIC/LINE Sensitivity	Microphone -40 dBu (Lch)	—	Microphone -60 dBu (Lch)
		Microphone -60 dBu (Lch)	—	
		Line -4 dBu (Lch)	—	
		Line +16 dBu (Lch)	—	
		Microphone -40 dBu (Rch)	—	Microphone -60 dBu (Rch)
		Microphone -60 dBu (Rch)	—	
		Line -4 dBu (Rch)	—	
		Line +16 dBu (Rch)	—	
	Noise Reduction	Normal Room	—	Normal Room
		Maximum Room	—	
		Off	—	
	Internal Microphones	Yes	—	No
		No	—	
	Automatic Start Record	Power On Record	—	Off
		Audio Detect Threshold	-20 dB	
			-60 dB	
		Off	—	
	One Touch Record	On	—	On
		Off	—	
Utility	Format Media	Internal	—	—
		USB	—	
	Backup Media	Internal	—	—
		USB	—	
	Save Settings	Yes	—	—
		No	—	
	Load Settings	Yes	—	—
		No	—	
	Auto Delete Recordings	To set days to automatic deletion	—	Never
	Restore to Factory Settings	Yes	—	—
		No	—	
	System Version	—	—	—

Record Settings

Record Parameters option

WAV Stereo	16 bit	44.1 kHz
WAV Mono	16 bit	
WAV Stereo	16 bit	22.05 kHz
WAV Mono	16 bit	
WAV Stereo	16 bit	11.025 kHz
WAV Mono	16 bit	
MP3 Stereo	320 kbps	44.1 kHz
	256 kbps	
	128 kbps	
	64 kbps	
MP3 Mono	160 kbps	44.1 kHz
	128 kbps	
	64 kbps	
	32 kbps	
MP3 Stereo	128 kbps	22.05 kHz
	64 kbps	
	32 kbps	
	16 kbps	
MP3 Mono	64 kbps	22.05 kHz
	32 kbps	
	16 kbps	
	8 kbps	
MP3 Stereo	64 kbps	11.025 kHz
	32 kbps	
	16 kbps	
MP3 Mono	32 kbps	11.025 kHz
	16 kbps	
	8 kbps	

Internal Media Times

The table below shows estimated record times per **1GB** of storage space. Note that the Internal Media has a storage capacity of 16GB.

Estimate Record Times			Internal Media Continuous Recording
WAV Stereo	44.1 kHz	16 bit	1h 34m
WAV Mono		16 bit	3h 8m
WAV Stereo	22.05 kHz	16 bit	3h 8m
WAV Mono		16 bit	6h 18m
WAV Stereo	11.025 kHz	16 bit	6h 18m
WAV Mono		16 bit	12h 36m
MP3 Stereo	44.1 kHz	320 kbps	6h 57m
		256 kbps	8h 41m
		128 kbps	17h 21m
		64 kbps	34h 43m
MP3 Mono		160 kbps	13h 53m
		128 kbps	17h 21m
		64 kbps	34h 43m
		32 kbps	69h 24m
MP3 Stereo	22.05 kHz	128 kbps	17h 21m
		64 kbps	34h 43m
		32 kbps	69h 26m
		16 kbps	138h 53m
MP3 Mono		64 kbps	34h 43m
		32 kbps	69h 26m
		16 kbps	138h 53m
		8 kbps	277h 46m
MP3 Stereo	11.025 kHz	64 kbps	34h 43m
		32 kbps	69h 26m
		16 kbps	138h 53m
MP3 Mono		32 kbps	69h 26m
		16 kbps	138h 53m
		8 kbps	277h 46m

Continuous Recording Time with Battery Operation

	Signal Pass Through	LCD	Phantom	Battery Life (hours)
Fully charged 2700 mAh Ni-MH	Yes	Full Bright	Off	4.0 h
			On	3.4 h
		Dimmer	Off	4.7 h
			On	4.0 h
	No	Full Bright	Off	4.5 h
			On	3.9 h
		Dimmer	Off	5.4 h
			On	4.6 h

	Signal Pass Through	LCD	Phantom	Battery Life (hours)
AA Size Alkaline 1300 mAh	Yes	Full Bright	Off	1.9 h
			On	1.6 h
		Dimmer	Off	2.3 h
			On	2.0 h
	No	Full Bright	Off	2.2 h
			On	1.9 h
		Dimmer	Off	2.6 h
			On	2.2 h

Conditions: 77 degrees Fahrenheit
Volume controller: Minimum position
Mode: Recording MP3-44.1kHz-Stereo-128kbps

Specifications

General

Number of Recording Channels..... 2 (stereo)
Recording / Playback Formats ..... WAV, MP3
16bit/Recording Format: linear PCM WAV 44.1kHz
MP3 Stereo 16, 32, 64, 128, 256, 320 kbps
MP3 Mono 8, 16, 32, 64, 128, 160 kbps
MP3 Encoding ..... ABR
File System.....FAT16/ FAT32
Sampling Rate. ..... 11.025 kHz, 22.05 kHz, 44.1 kHz
Maximum Recording File Size.....2 GB
Display ... High-resolution 4.3-inch LCD Color Touch-screen
Power Requirements .....
12 VDC 3.0 A Center Pin Positive
AC 100 - 240 V 50/60 Hz Power Supply
Battery 4 X "AA" Alkaline or Ni-MH

Dimensions..... 5.67 (W) 2.36 (H) 7.72 (D) in
144 (W) 60 (H) 196 (D) mm
Weight ..... 2.3 lb/1.04 kg without Battery
Operating Temperature..... 5 °C to 40 °C
(41 °F to 104 °F)
Internal Speaker.....3.6 cm X 1
Internal Microphones ..... Electret Condenser X 2
Phantom Power Supply..... 48 V 10 mA max
USB..... USB 2.0 High speed /
Mass Storage Class Operation
Overall Frequency Response.... 20 Hz to 20 kHz +/-1 dB
Playback S/N..... 96 dB
Internal Media..... 16 GB
Max File Number per Media 2000
Max USB Storage Capacity ..... Up to 2TB

Input

Mic / Line Inputs

TYPE.....XLR (1: GND, 2: Hot, 3: Cold)
TRS (Tip: Hot, Ring: Cold, Sleeve: GND)

Mic Setting

Input Sensitivity.....-60 dBu, -40 dBu
THD 0.18%
S/N..... 57 dB
Max. Input Level .....-22 dBu (at -60 dBu)
-2 dBu (at -40 dBu)

Line Setting

Input Sensitivity..... -4dBu, +16 dBu
Input Impedance.....12 kΩ
THD .....0.03 %
S/N..... 80 dB
Max. Input Level .....+14 dBu (at -4 dBu)
+22 dBu (at +16 dBu)

Conf Mic Input

TYPE..... Ø3.5 terminal
Input Sensitivity..... 2.4 mV
Input Impedance.....4 kΩ
THD .....0.1 %
S/N..... 72 dB
Max. Input Level ..... 180 mV
1.8 V (ATT ON)

AUX Input

TYPE..... RCA terminal
Input Sensitivity..... 500 mV
Input Impedance.....20 kΩ
THD .....0.03 %
S/N..... 80 dB
Max. Input Level .....3.8 V
10 V (ATT ON)

Outputs

Balanced Analog Out L/R

TYPE.....XLR (1: GND, 2: Hot, 3: Cold)
Load Impedance..... Over 600 Ω
Output Level .....+16dBu at 600 Ω

Unbalanced Analog Out L/R

TYPE.....RCA Terminal
Load Impedance.....Over 10 kΩ
Output Level .....2.0 V at 10 kΩ

Headphone Out .....48 mW/ 32 Ω (10 % THD)
Speaker Out .....1.5 W. 8 Ω (10 % THD)
(AC adaptor powered)
0.5 W. 8 Ω (10 % THD)
(Battery powered)

Appearance standards and specifications are subject to change without notice.

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