PMR61

PROFESSIONAL AUDIO RECORDER

User Guide

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.
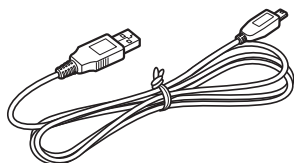Do not attempt to repair this unit by yourself.

SUPERSCOPE®

Superscope PMR61 User Guide

■Table of Contents

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Contents

■Package Contents

USB Cable   **RCA Patch Cables**
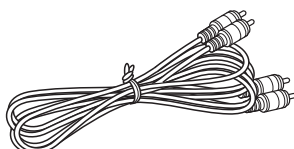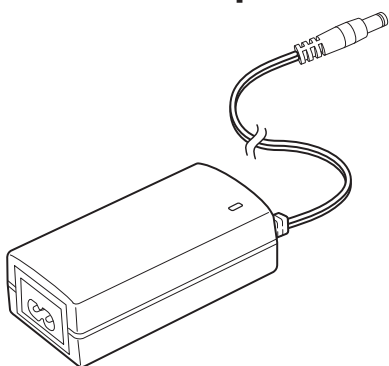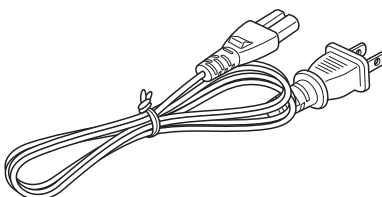
AC Adapter   **AC Power Cord**

Package Contents

- One Superscope PMR61 Recorder.
- One AC adapter (DA61PMR).
- One USB cable.
- One RCA stereo audio cable.
- One User Guide (PDF Format) on CD-ROM.

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

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■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:

Please match the polarity of the battery (+/ -) with the polarity indication on the remote controller.

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.

Warning!
Do not dispose of any used batteries by burning. Doing so may cause an explosion.

∎Top Panel
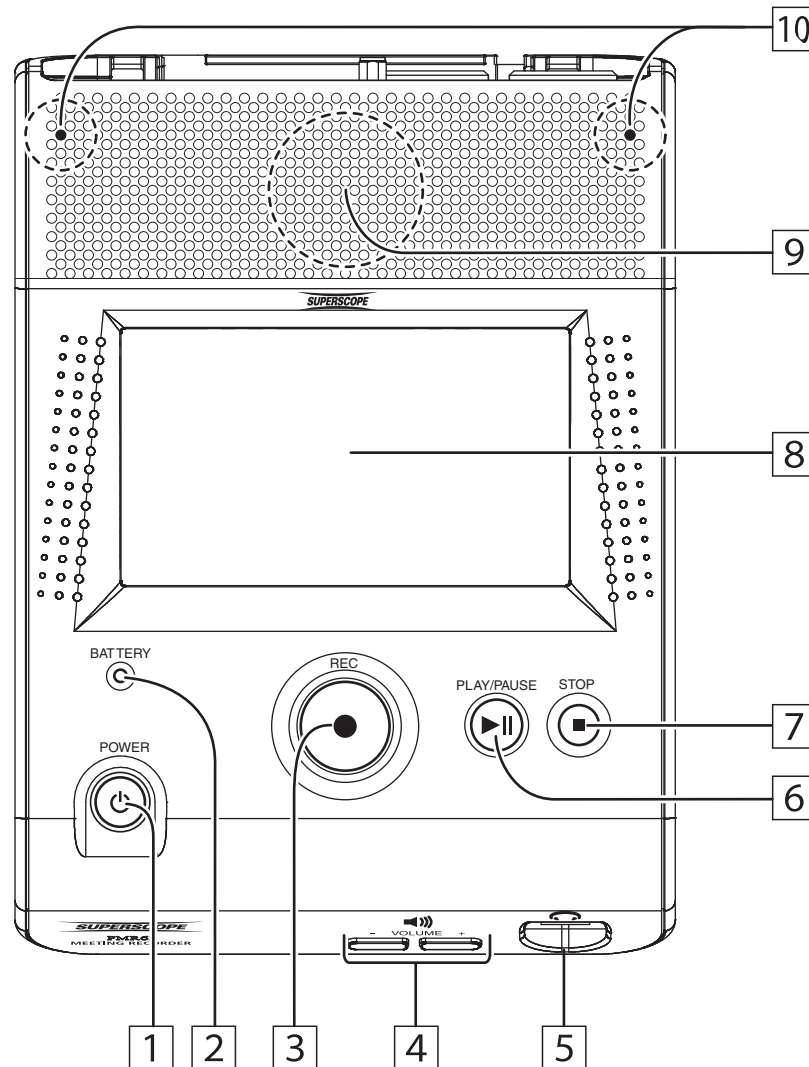
1 ⏻ POWER Button

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.

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 ▶‖ 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 page.

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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 Microphone L & R

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

■Side Panel
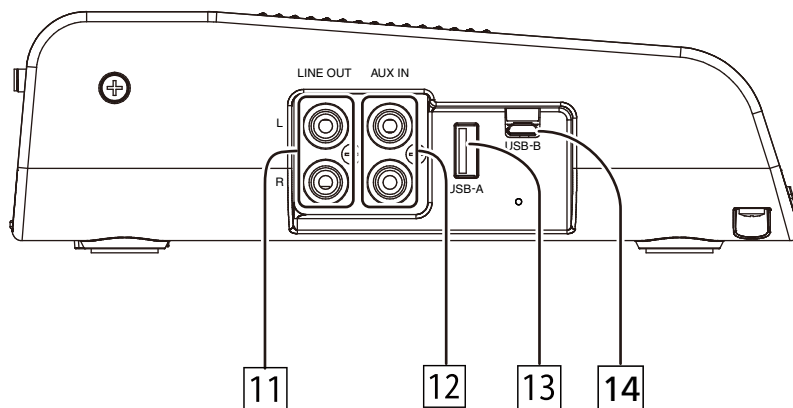
11 LINE OUT Jacks

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.

14 USB Connector B

Connect a USB cable here to transfer data between a computer and PMR61's Internal Memory. MASS STORAGE MODE is accessed automatically from the PMR61 HOME page, and is initiated when connected to a computer with a USB cable while PMR61 is on the HOME page.

∎Rear Panel
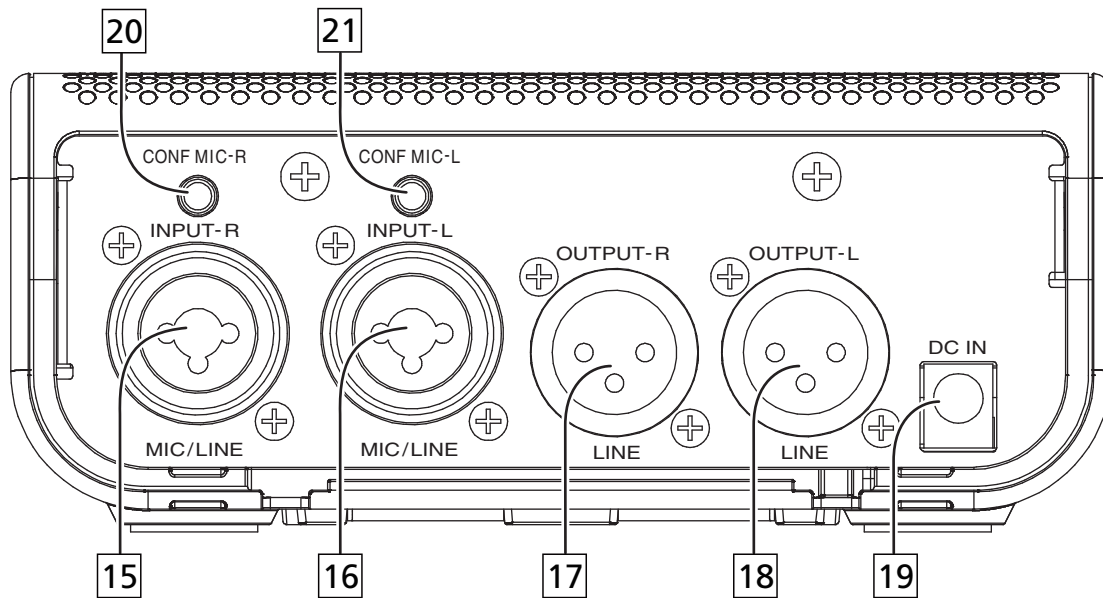
15 Right MIC/LINE INPUT Jack

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

16 Left MIC/LINE INPUT Jack

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

17 Right Analog Output (Balanced) Jack

Balanced signals require three separate connections (HOT, COLD, GND):
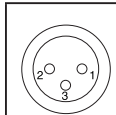
❶ GND refers to the grounding wire.
❷ HOT refers to the original audio signal.
❸ The COLD signal is the original signal with opposite phase.

18 Left Analog Output (Balanced) Jack

Balanced signals require three separate connections (HOT, COLD, GND):
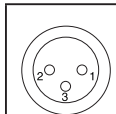
❶ GND refers to the grounding wire.
❷ HOT refers to the original audio signal.
❸ The COLD signal is the original signal with opposite phase.

19 DC Input Jack

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

20 Conference Right Microphone Jack

Connect microphone with 3.5mm stereo plug.

21 Conference Left 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

AC Outlet

AC Adapter (Included)

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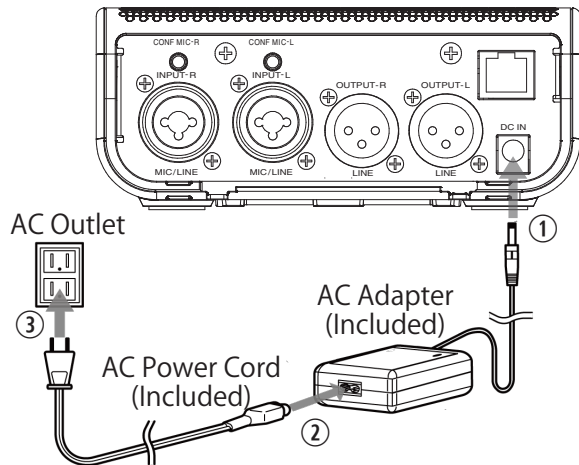
① Connect the AC Adapter to the DC Jack.
② Connect the AC Cord to the Input of the AC Adapter.
③ Connect the AC Plug to AC power source.
④ Press the ⏻ **POWER** button to power on.
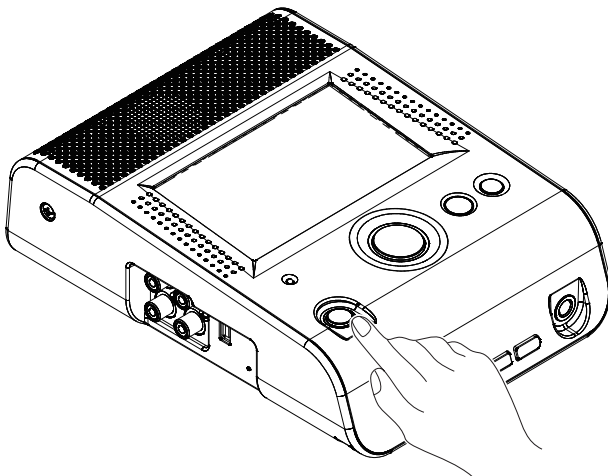
Using Batteries

> **Compatible Batteries**
>
> PMR61 works with Alkaline batteries and rechargeable Ni-MH batteries.

1. Remove the battery cover on the bottom of the recorder.
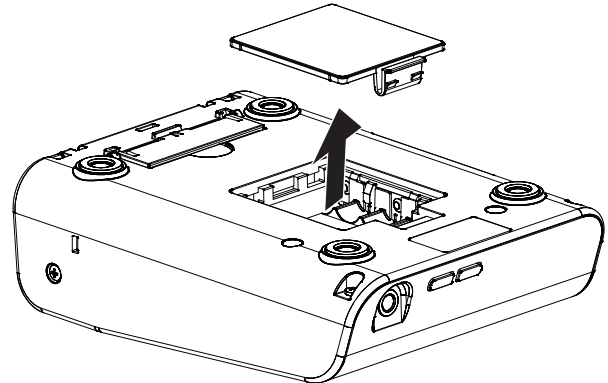
2. Insert four AA size Ni-MH batteries or Alkaline batteries.
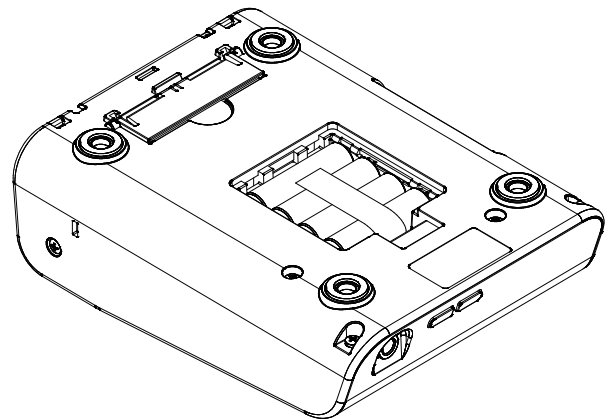
3. Close the battery cover.
4. Press the ⏻ **POWER** button to power on.
5. Set the correct Battery Type in the Device Settings Menu.

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.
- 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). PMR 61 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.

Home Screen

Recorded Files list

Setup Menu

Recording

Playing
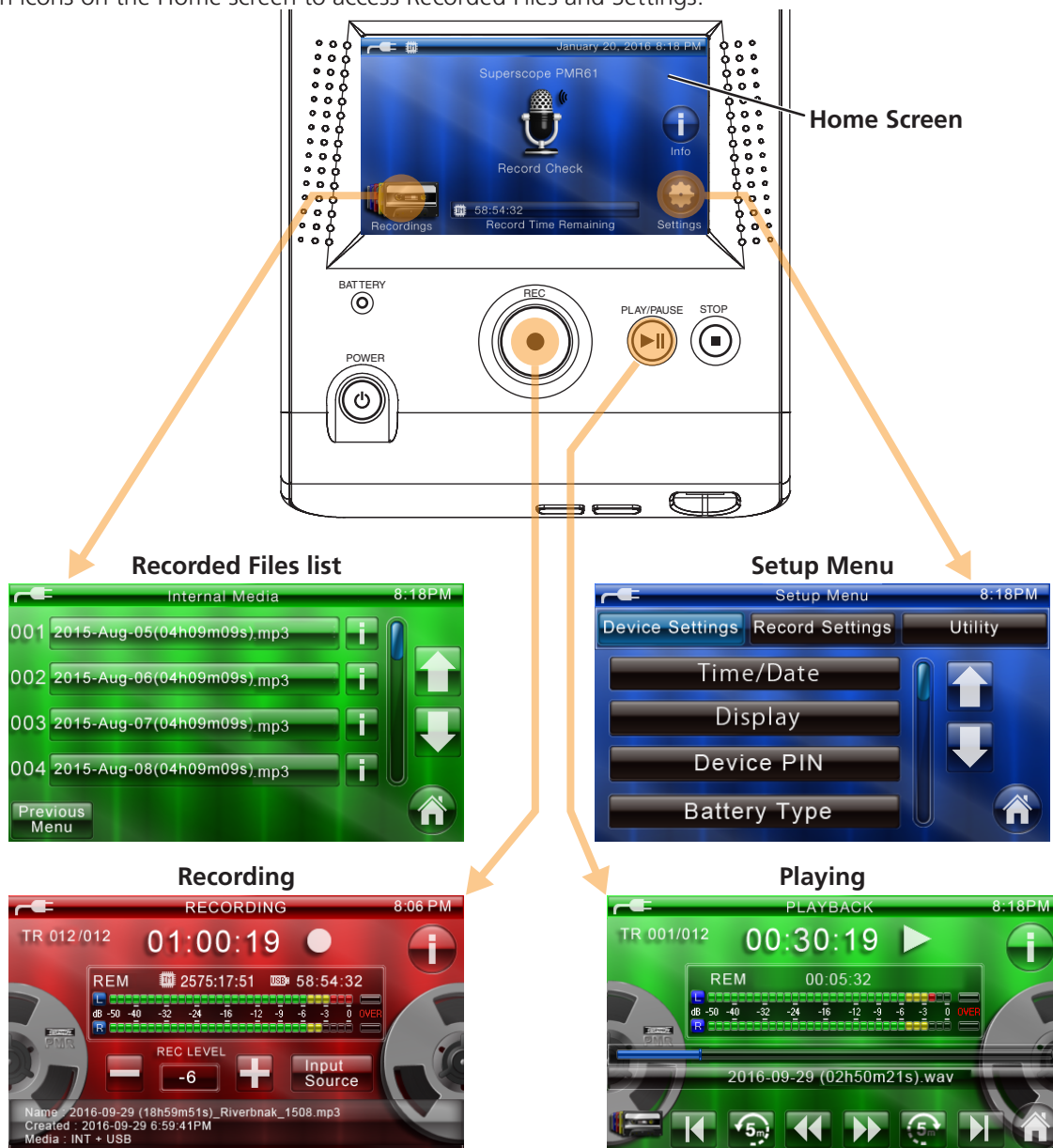
■Recording

1. Press the ● **REC** button to begin recording.
    The following screen will appear:
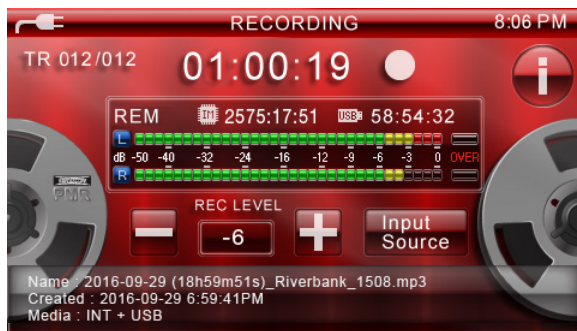
2. Touch the − and + VOLUME level button to adjust
    the REC LEVEL. When the Record Level Control is set
    to Automatic, manual adjustment is not available.

3. To pause the recording, press the ▶❚❚ **PLAY/PAUSE**
    button. To resume recording press the ▶❚❚ **PLAY/
    PAUSE** button again.

4. To select and adjust Input source levels, touch Input
    Source.
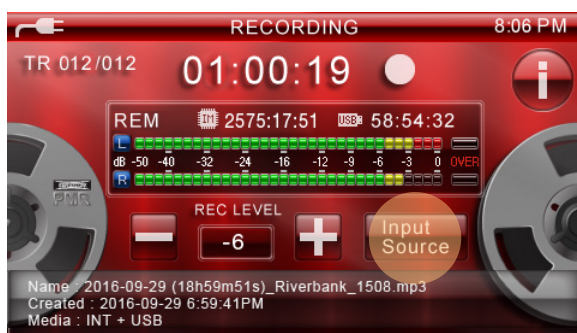
5. Touch the input source to select it. Then touch + or -
    to adjust the levels. Touch Previous Screen to accept
    the settings return to the RECORDING screen.
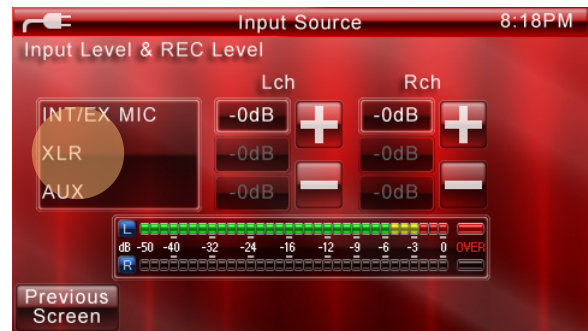
6. To stop recording, press the ■ **STOP** button.
    The recorded file will appear in the Media screen.

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.

File and Folder Limits

Single File Size	2GB

※ When the above limits are exceeded during
   recording, a new file is created automatically
   and recording continues.

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Using RECORD CHECK

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 12 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 "rehearse_ audio_test" file for you to listen to using headphones or the internal speaker. After playback, PMR61 will return to the Record Check screen. You can listen to the test file again, return to the Home screen and run Record Check again, or press REC to begin recording using the Record Check levels.

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■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 the settings and return to the Record Settings screen.
   Touch Cancel to ignore and return to the Record Settings Menu screen.

Setting Record Parameters

1. To access the Record 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 and return to the Record Settings screen.
   Touch Cancel to ignore and return to the Record Settings 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 return to the Record Settings 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 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 screen 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 screen in the Setup Menu.

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Setting MIC/LINE Sensitivity

1. To access MIC/LINE Sensitivity settings for the Left and Right Channel, 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 screen 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.
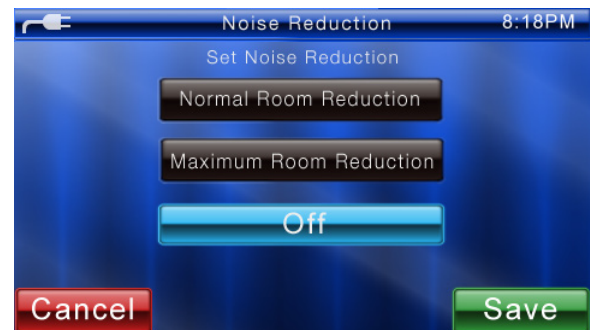
3. Touch Save to accept your selection.
   Touch Cancel to ignore changes and return to the Record Settings screen in the Setup Menu.

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Internal Microphone

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.
Internal Microphones cannot be turned on if both 3.5 mm inputs are connected.

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

Setting Auto Start Record

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 about 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 screen in the Setup Menu.

Audio Detect Record

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

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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 Record Settings screen in the Setup Menu.

5. Press the ● **REC** button to begin recording.
    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 the setting.
    PMR will return to the Record Settings screen.
    Touch Cancel to ignore changes and return to the Record Settings screen in the Setup Menu.

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∎**Play**

Playing

1. Press the ▶❙ **PLAY/PAUSE** button. When you press, the currently selected file is played.
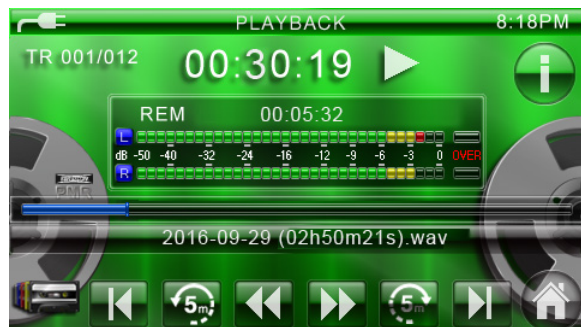
2. Press the ▶❙ **PLAY/PAUSE** button again to pause playback. Play restarts when you press the ▶❙ **PLAY/PAUSE** button again.

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.
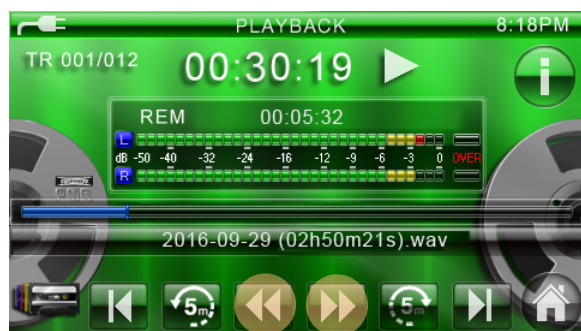
4. To jump forward five minutes, touch ⟳5m. To jump back five minutes, touch the ⟲5m.
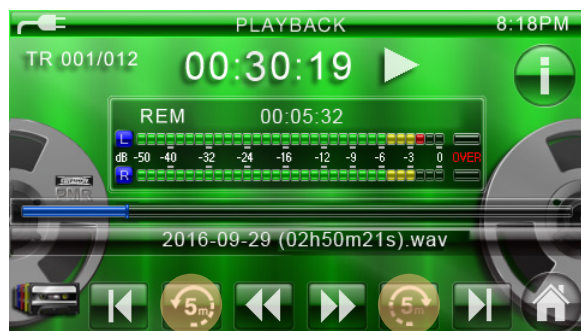
5. To play the previous file, touch the ❙◀ To play the file later, touch the ▶❙.
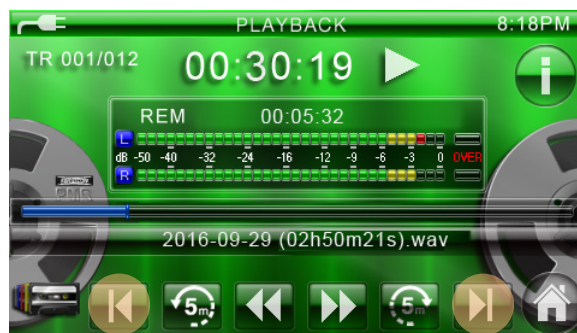
Selecting Recorded File

1. At anytime during Playback, you can touch [icon] to access all recorded files from either the Internal or USB Media.
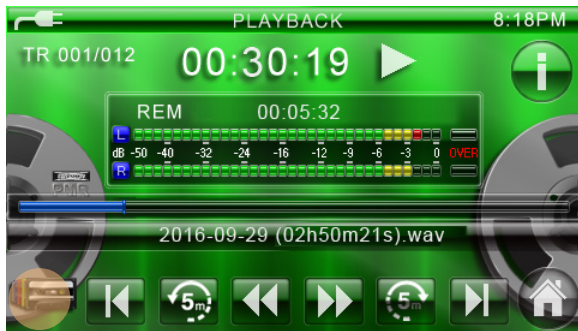
   From the HOME ([icon]) screen, touch [icon] to access recorded files.

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

3. Touch ↑ or ↓, to scroll through the list of recorded files.
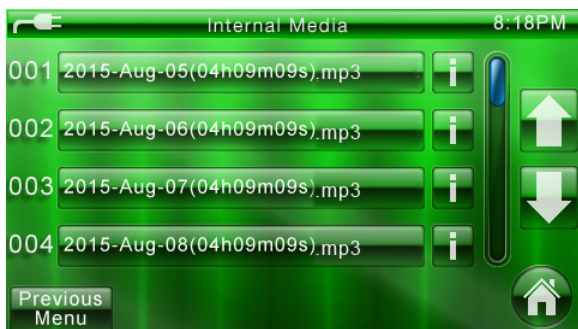
Playing Recorded File

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.
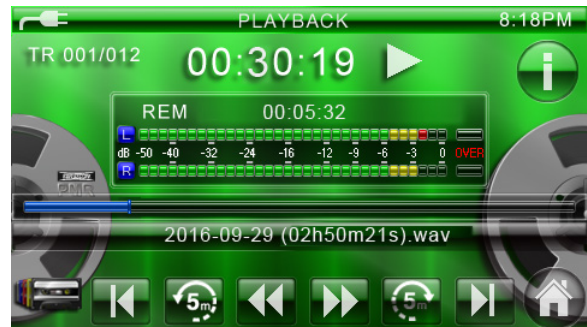
Renaming Recorded File

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

2. Touch Rename.
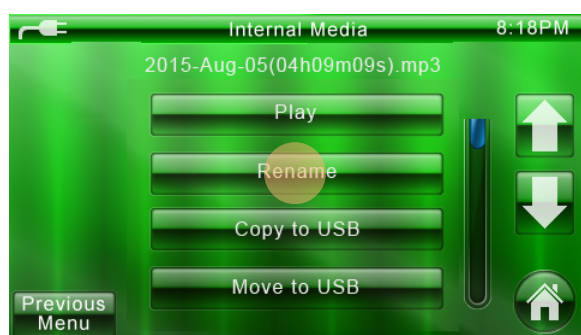
3. Use the keyboard to rename any part of the recorded file name. Touch the display to position the cursor. To erase characters to the left of the cursor, touch the ⌫ or touch and drag to select the characters you wish to erase.
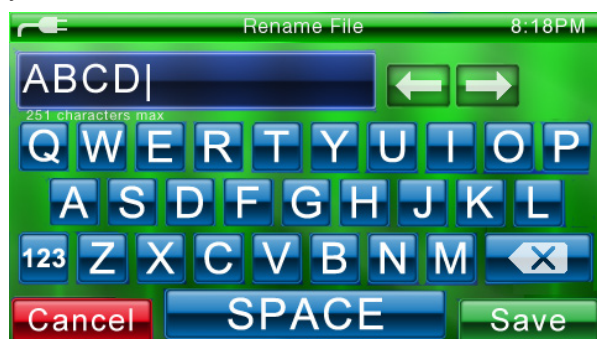
4. Touch Save to accept the setting.
   Touch Cancel to ignore changes and return to the previous screen.

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.
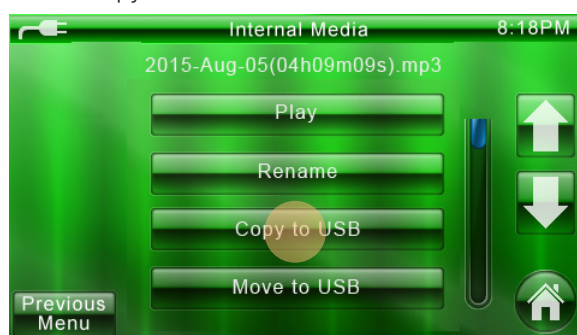
3. Touch Yes to copy the file.

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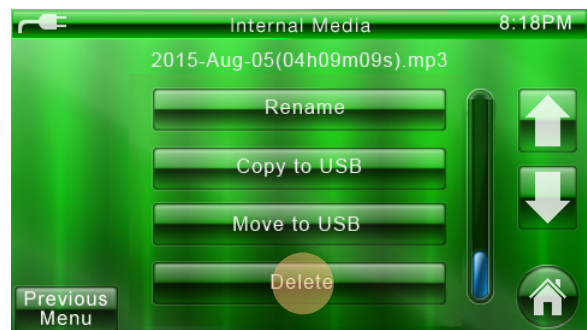
3. Confirm the file that is displayed and touch Yes to permanently delete it.

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.

1. Touch Done to accept the PIN.

   The following screen will appear.

■Device Settings

Setting Date and Time

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

Setting Time

1. Touch Time/Date.

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 Time/Date.

2. Touch Set Date.

3. Change Date values by touching the ⬆ 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 Daylight Saving Time

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

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 the ⬆ 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 Time/Date.

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

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.
   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 32 characters.


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.

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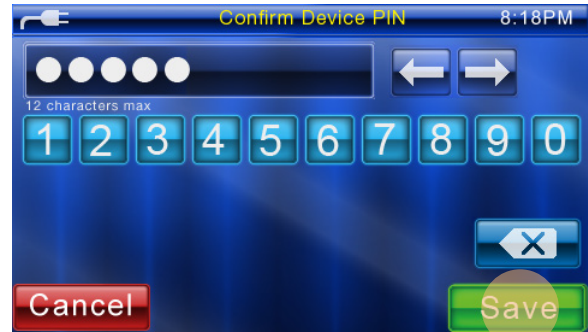
5. Touch Save to accept the setting and return to the Device Settings screen.
   To ignore and return to the previous screen, touch Cancel.

6. 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.

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Setting Battery Type

When using the 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) and AC is connected.

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

2. Touch Ni-MH to use Ni-MH batteries.
    Touch Alkaline to use alkaline batteries.

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

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 Area

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.

2. Touch On and then touch Settings to enter or display User data that has been previously entered in the File Name.
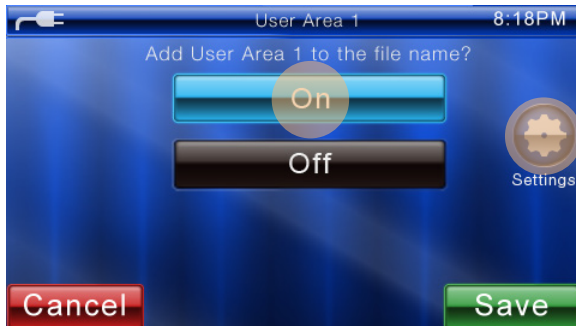
3. Type a User Area description using the keyboard. To erase characters to the left of the cursor, touch the ⊠ or touch and drag to select the characters you wish to erase. You can enter up to 12 characters.

4. Touch Save to save User Name. The following screen will appear:

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

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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.

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 Save 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 Yes.
    If your selection is No, signal will not pass through to the Line Outputs during Recording.
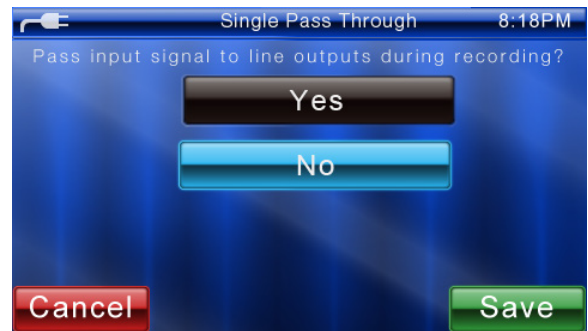
4. Touch Save to save your selection.
    Touch Cancel to ignore changes and return to the previous screen.

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 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.

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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 save 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.

3. The following screen will appear.

Format Media

1. Touch Format Media.

2. Format Media erases all of the recordings and files in the selected Media.
   To select the Media that you want to Format, touch Internal or USB.

The following screen will appear:
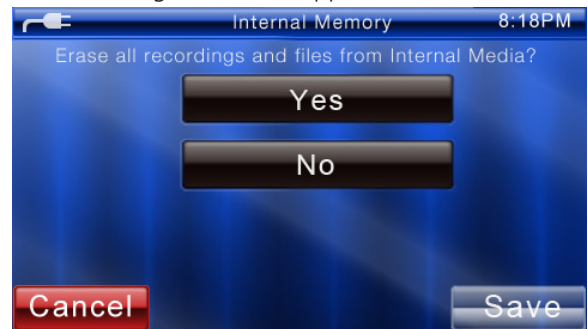
3. Touch Yes if you want to permanently erase all recordings and files from the selected media.

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

Superscope PMR61 User Guide

Backup Media

1. To backup 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.

Checking USB Media

1. To check the compatibility of your USB media with PMR61, insert USB media and touch USB Media Check.

2. Touch OK.
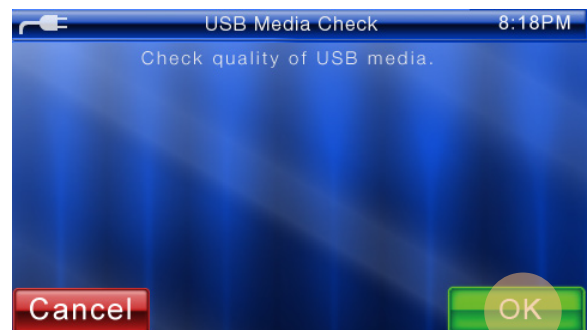
3. Touch 🏠 to return to the HOME screen. Touch Previous Menu to return to the previous Menu.

Superscope PMR61 User Guide

Save Settings to USB Media

1. To save PMR61 settings to USB Media, touch Save Settings in the Utility Setup Menu.

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 in the Utility Setup Menu.

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.

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Delete Recorded Files Automatically

1. To access Auto Delete Recordings settings, touch Auto delete Recordings.

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.

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

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 Press 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. From the Device Settings in the Setup Menu, scroll to System Version and touch System Version.

PMR61 System Version will be displayed.
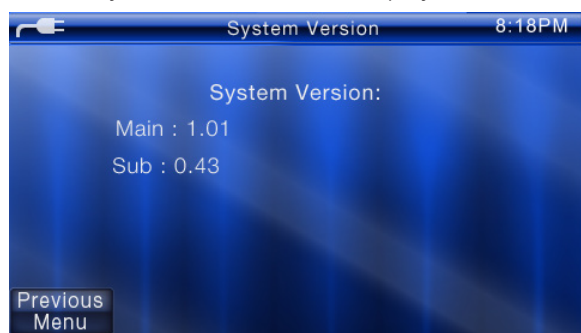
2. Touch Previous Menu to return to Utility in the Setup Menu.

∎Speaker Setup

Using Headphones or the Internal Speaker

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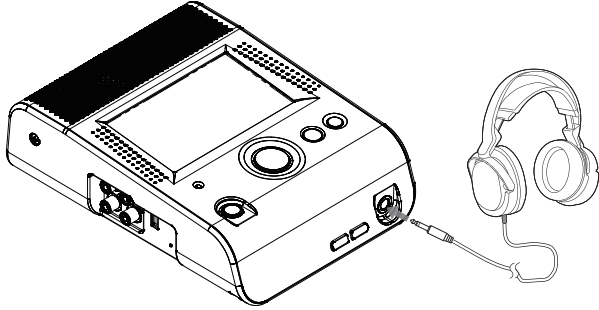
External Speakers

When using powered speakers, speakers with built-in amplifiers, connect PMR61 right and left LINE OUT to the line inputs of your powered speakers. The left channel is the white terminal and the right channel is the red terminal. Use the volume control on the powered speakers to adjust level.

Powerd Speakers

Superscope PMR61 User Guide
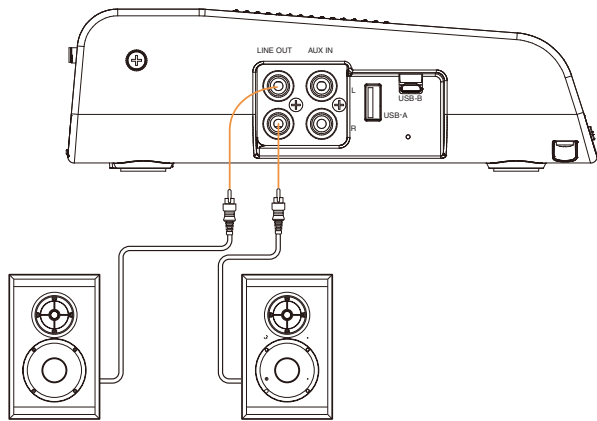
Computer Connection

By connecting PMR61 to a PC or Mac, you can transfer recorded files to and from a computer 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 Stop Mode and the HOME ( ) screen is displayed 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.

   USB - micro B

   USB - A
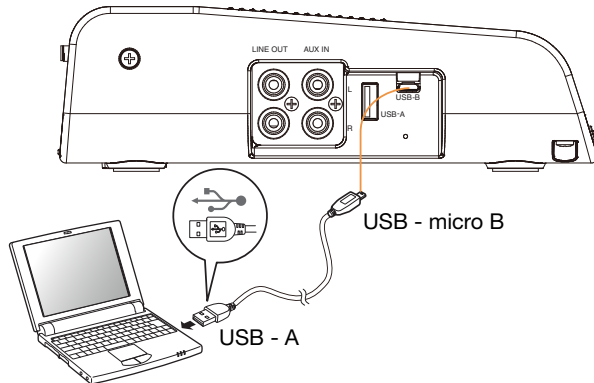
3. The PMR61 will be recognized as an external drive without having to install a new driver.
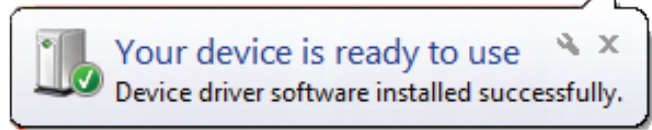
4. Locate the PMR61 in your computer's directory, and copy, move and delete files using your computer's operating system.
   Recordings transferred from a computer to the PMR61 are placed in it's ROOT directory. Folders from a computer transferred to PMR61 cannot be viewed or accessed in the PMR61.

■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.

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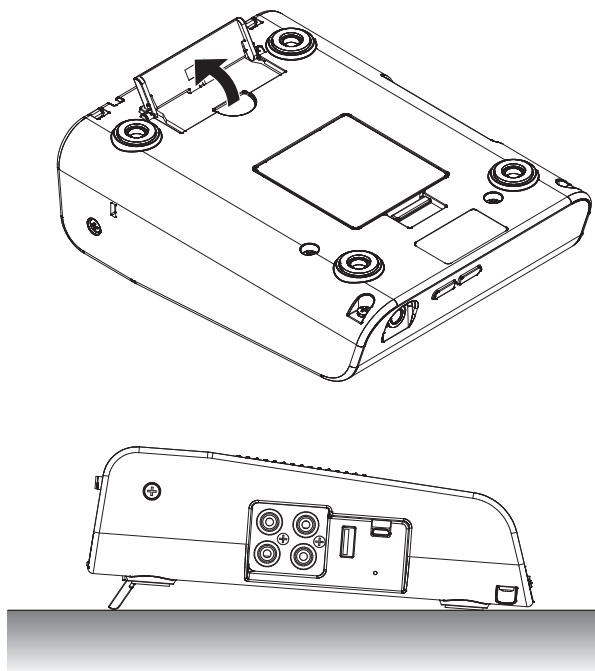
■Appendix

Main Menu (1 of 2)

Menu Item	Sub Menu	Display	Settings	Default Settings
Device Settings	Time/Date	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	On	Characters Input	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	
	Time Jump Interval	1 s - 60 s	—	15 s

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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	—	
	USB Media Check	—	—	—
	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	256 kbps	44.1 kHz
	128 kbps	
	64 kbps	
	32 kbps	
MP3 Mono	128 kbps	44.1 kHz
	64 kbps	
	32 kbps	
MP3 Stereo	128 kbps	22.05 kHz
	64 kbps	
	32 kbps	
	16 kbps	
	8 kbps (Not available)	
MP3 Mono	64 kbps	22.05 kHz
	32 kbps	
	16 kbps	
	8 kbps	
MP3 Stereo	64 kbps	11.025 kHz
	32 kbps	
	16 kbps	
	8 kbps (Not available)	
MP3 Mono	32 kbps	11.025 kHz
	16 kbps	
	8 kbps	

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Internal Memory Times

The table below shows estimated record times for **1GB** of storage space.

Estimate Record Times			Internal Memory 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	256 kbps	8h 40m
		128 kbps	17h 21m
		64 kbps	34h 43m
		32 kbps	69h 26m
MP3 Mono		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

Superscope PMR61 User Guide

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

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∎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, 80, 128, 160, 256 kbps
        MP3 Mono 8, 16, 32, 40, 64, 80, 128 kbps
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) 3.2 (H) 7.72 (D) in
        144 (W) 57 (H) 196 (D) mm
Weight ....4.85 lb/2.2 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

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)

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SUPERSCOPE®

One Year Limited Warranty

Your Superscope® PMR61™ is warranted against manufacturer defects in material and workmanship for one year from the date of purchase.

Non-transferable Warranty:
This warranty may be enforced only by the original purchaser.

The following are not covered under warranty:
1. Damage, deterioration, malfunction or failure to meet performance specifications resulting from
   * accident, acts of nature, misuse, abuse, neglect or unauthorized product modification.
   * improper installation, removal or maintenance, or failure to follow supplied instructions.
   * repair or attempted repair by a non-Superscope authorized agent.
   * any shipment (claims must be presented to the carrier).
   * any cause other than a defect of manufacturing.
2. Cleaning, check-ups with no fault found.
3. Any product on which the serial number has been defaced, modified, or removed.
4. Accessories, including but not limited to, cables and adaptors.
5. Product purchased outside of the United States, its possessions or territories, or from a party other than Superscope or an authorized Superscope reseller.

The following are covered under warranty:
All labor and material expenses (parts and labor) for products covered by this warranty.

To Obtain Service:
1. If your unit needs service contact Superscope at (630)232-8900. A service representative will advise you of how to obtain service. Please do not return the unit directly to Superscope, unless specified by our service representative.
2. You must pay any shipping charges if it is necessary to ship the product for service. If the necessary repairs are covered by the warranty, we will pay return shipping charges to your location anywhere in the United States.
3. Whenever warranty service is required, you must present the original dated sales receipt, or other proof of purchase.

No Implied Warranties:
ALL IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY EXCLUDED.

Exclusion of Damages:
Liability for any defective product is limited to repair or replacement of the product at Superscope's option. Superscope shall not be liable for damage to other products caused by any defects in Superscope products, damages based on inconvenience or for loss of use of the product, profits or goodwill, or for any other damages, whether incidental, consequential, or otherwise.

Except as specifically provided herein, no other express warranties are given.

This limited warranty is enforceable only in the United States and its possessions or territories.

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