

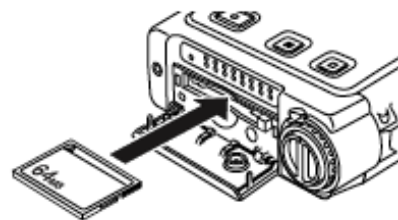
Marantz PMD660 Digital Recorder Guide

Set Up

Inserting a Compact Flash

The PMD660 records onto CF or Compact Flash Cards.
To insert a CF card:

1. Open the CF Card Door on the front side of the recorder. You should see a slot that looks like a miniature disc drive.
2. Gently insert a compact flash card into the slot.
3. Close the CF card door. If the CF card door won't latch, check that the eject button is in the "in" position.



Powering the unit

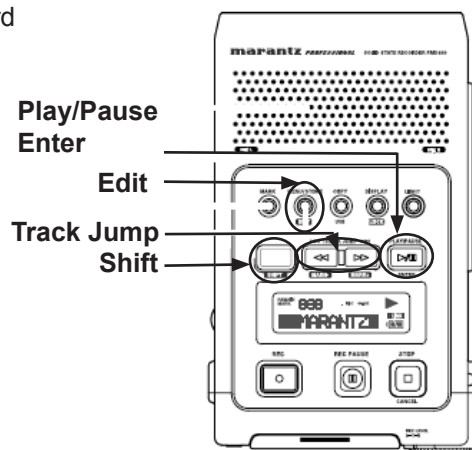
Switch on the unit using the power switch located on the right side of the unit.
The LCD will briefly indicate that the unit is loading data from the CF card.

Formating a new or previously used CF Card

If you have inserted a new flash card or want to erase all audio files on a CF card that has been used you may need to format it. To format:

1. Press the **Shift + Edit** buttons. The display will read **Trk Erase**.
2. Press the left **Track Jump** button (<<) until the display reads **Format**.
3. Press the **Play/Pause/Enter** button. The LCD will ask **OK?**.
4. Press the **Enter** button again. The display will briefly read: **Executing** and then **Completed**.

The CF card is now ready to record to.



Presets:

The recorders have 3 presets than you can choose from depending on what type of audio you need to record. If your needs go beyond these 3 presets, you'll need to choose your own settings manually (*see pgs.5-7 for more about this*).

To record audio for **iMovie**: select **preset 1**

To record audio for a **Cd**: select **preset 2**

To record **MP3** audio: select **preset 3**

Preset 1 is set up to record 16-bit stereo PCM sound at a sampling rate of 48khz. The external mic inputs are the default inputs and the level controls are accessible on the front side of the unit.

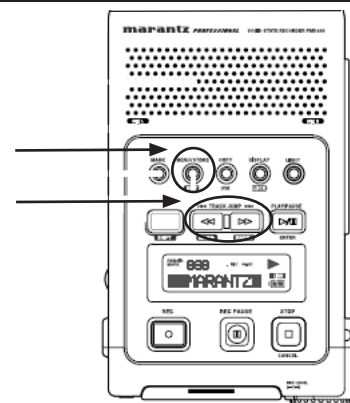
Preset 2 is set up to record 16-bit stereo PCM sound at a sampling rate of 44.1 khz. The external mic inputs are the default inputs and the level controls are accessible on the front side of the unit.

Preset 3 is set up to record MP3 mono, compressed audio. The external mic inputs are the default inputs and the level controls are accessible on the front side of the unit.

Steps for selecting Presets:

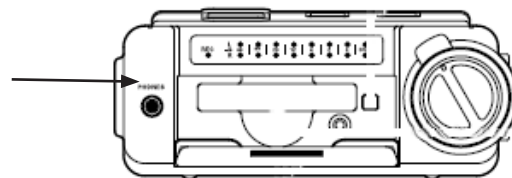
1. With the PMD 660 at **Stop**, Push the **Menu/Store Edit** button
2. Push the **<< or >>** button to choose Preset-1 (or 2, or 3)
3. When the LCD reads Preset-1 with the "1" flashing
Press the **Menu/ Store Edit** button.

The LCD will briefly read "Executing" and then "Completed."



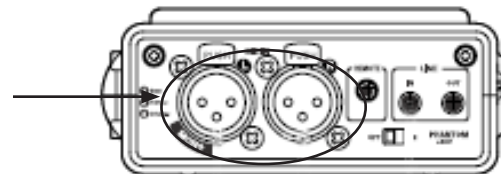
Plugging in Headphones

You may plug in headphones using the 1/8 inch jack on the front of the unit. This is a good idea before you start recording so that your microphones do not feedback with the built in speakers.



Plugging in Microphones

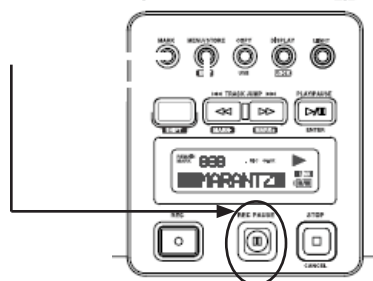
You may plug a stereo microphone with Left and Right male XLR cables into the "L" and "R" XLR Inputs on the back side of the unit.



Setting Levels:

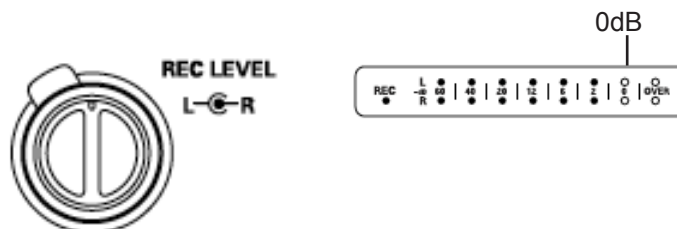
The level meter must NEVER touch the 0dB mark. If it does the signal will be *clipped*. The best record level is when the meter goes as close to it but never over it.

1. Press **REC PAUSE**



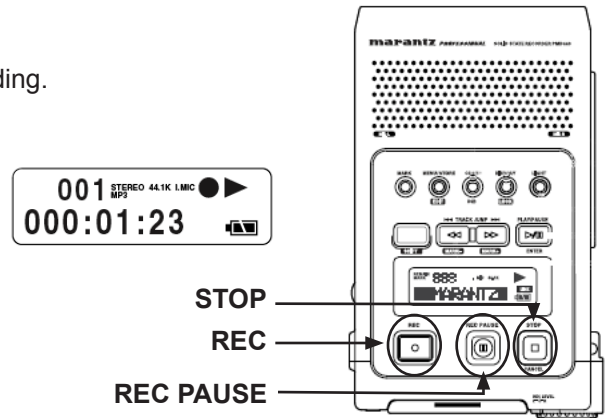
2. Set recording levels using the **REC LEVEL** controls on the front side of the unit.

The inside control (Right Channel) and outside control (Left Channel) turn together unless you hold one while turning the other.



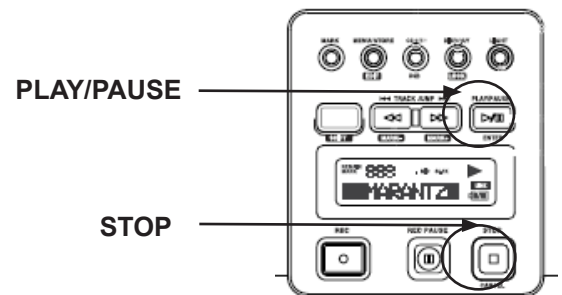
Recording

1. When you are ready to record, press the **REC** (record) button to begin recording. The REC indicator will be lit and steady while recording. The display will show the information display of recording.
2. Each time you press the REC button a new track number is assigned to the recording. If you want to pause recording but not increment the track number (and create a new audio file) press **REC PAUSE**. When you are ready to resume recording press the **REC** button.
3. When you are finished recording press the **STOP** button. This will close the audio file.



Playback

1. Push the **PLAY/PAUSE** button to begin playback. The PLAY indicator will be lit and steady while in playback.
2. Push the **PLAY/PAUSE** button again to pause playback.
3. Push the **STOP** button to stop playback.



Track Access

- |<< Track Jump During playback**, push |<< to jump to the previous track. If pushed while playing the first track, it will jump to the last track on the CF card.
- >>| Track Jump During playback**, push >>| to jump to the next track. If pushed while playing the last track, it jumps to the first track on the CF card.



Audible Search

- << During playback** push and hold the << button to **rewind** and do a 2x speed audible search in the reverse direction. Release to return to a normal forward playback.
- >> During playback**, push and hold the >> button to **fast forward** and to do a 2x speed audible search in the forward direction. Release to return to normal forward playback.



Search

- << During pause**, push and hold the << button to rewind quickly. The rewind is at 10x speed for three seconds, then it automatically speeds up to 140x speed.
- >> During pause**, push and hold the >> button to fast forward quickly. The fast forward is at 10x speed for three seconds, then it automatically speeds up to 140x speed.



If the >> button is held past the end of a track, the fast forward will continue into the next track.
If the << button is held past the beginning of a track the rewind will continue into the previous track.

EDL Mark

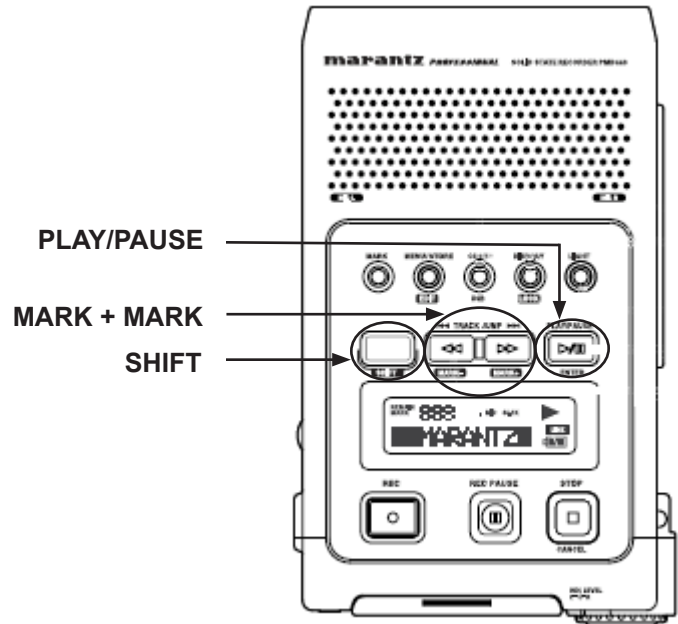
EDL (edit decision list) marks help you find specific points in the recording. EDL marks can be created manually during recording, pause, and playback. They can also be created automatically. Up to 255 EDL marks can be added to a CF card. EDL marks are numbered consecutively starting at one.

Adding EDL Marks Manually

1. During recording, pause or playback press the **MARK** button to manually add an EDL mark.

Searching the EDL Mark

- From Stop or Playback, push and hold the **SHIFT** button while pushing the **Mark+** button to tab through the EDL marks on the CF Card.
- From Stop or playback, push and hold the **SHIFT** button while pushing the **Mark-** button to tab through the EDL marks on the CF Card.
- To start playback from the displayed EDL Mark, push the **PLAY/PAUSE** button.

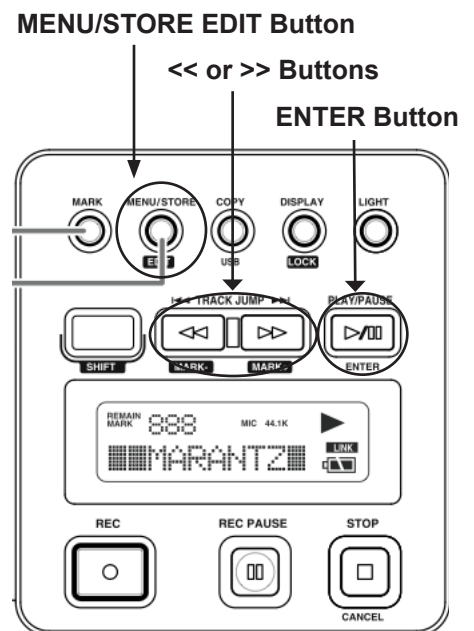


Creating your own Presets

If you want to work with settings other than the ones offered in the three available presets (audio for iMovie, cd audio, MP3 audio - see pg.2 of this guide-), you will need to choose your own settings and create your own presets. You will find a description of the each parameter in the next two pages.

General Menu Procedure

1. With the PMD660 at Stop, push the **MENU/STORE EDIT** button.
2. Push the **<< or >>** button to choose the **Preset number**.
3. When displayed, push the **ENTER** button to select the desired Preset number.
4. Push the **<< or >>** button to tab through the sub menu display.
5. When the desired parameter or value is displayed and flashing, push the **ENTER** button to select it.
6. Repeat steps 2-5 as desired.
7. When finished, push the **MENU/STORE/ EDIT** button to store your changes, or push the **STOP/CANCEL** button to cancel them.



Preset Parameters			
Display	Selection Range	Description	Notes
1. Input	INT MIC, MIC, LINE	<p>Internal Mic - The PMD660 has internal stereo microphones located on the top of the unit.</p> <p>MIC - The PMD660 has two XLR microphone inputs on the back of the unit labelled 'L' and 'R.' When recording in Mono the 'L' input is active.</p> <p>LINE - The PMD660 has one 1/8" Stereo Mini Input on the back of the unit.</p>	The PMD660 records only from the selected input.
2. Output	LINE, SP/HP	<p>LINE - The PMD660 has one 1/8" Stereo Mini Output on the back of the unit.</p> <p>SP/HP - The PMD660 has an internal speaker and a headphone jack accessible on the front side of the unit.</p>	
3. Date/Time	2004-2099 Jan-Dec 1-31 AM/PM 00:00 - 11:59		
4. Rec Format	MP3-44.1K, MP3-48K, PCM-44.1K, PCM-48K	<p>MP3-44.1K - Records using MP3 (MPEG I Layer 3) compression</p> <p>MP3-48K - Records using MP3 (MPEG I Layer 3) compression at 48K</p> <p>PCM-44.1K - Records uncompressed audio at 44.1K Sample Rate - Appropriate for finishing on Compact Disc</p> <p>PCM-48K - Records uncompressed audio at 48K Sample Rate - Appropriate for finishing on miniDV.</p>	The MP3 compressed formats will yield longer recording time but lower quality audio. The PCM (Pulse Code Modulation) uncompressed formats are good acquisition formats appropriate for editing and mixing.
5. Rec Channel	Stereo, Mono	<p>Stereo - Records to L and R channels simultaneously.</p> <p>Mono - Records to L channel only.</p>	Stereo uses twice as much storage space as Mono. Only use Stereo if you are recording with two microphones or a single stereo microphone.
6. PreRecord	On, Off	<p>On - When pre record is on and the PMD660 is in record pause, it listens to the selected audio inputs and continuously buffers 2 seconds of audio. When recording begins, the 2 second pre record buffer is written at the beginning of the new track. The 2 seconds give you time to start recording without missing the first seconds of audio.</p> <p>Off - Disables pre record.</p>	
7. Manual Trk	On, Off	<p>On - Enables user to increment track number while recording by pressing the record button.</p> <p>Off - Disables this feature</p>	
8. Auto Trk	Off, 1, 5, 10, 15, 30min., 1,2,6,8,12,24 hours.	<p>Off - Disables the automatic numbering of tracks.</p> <p>1min-24hours - Enables the automatic creation of new tracks at a fixed interval of recording time.</p>	

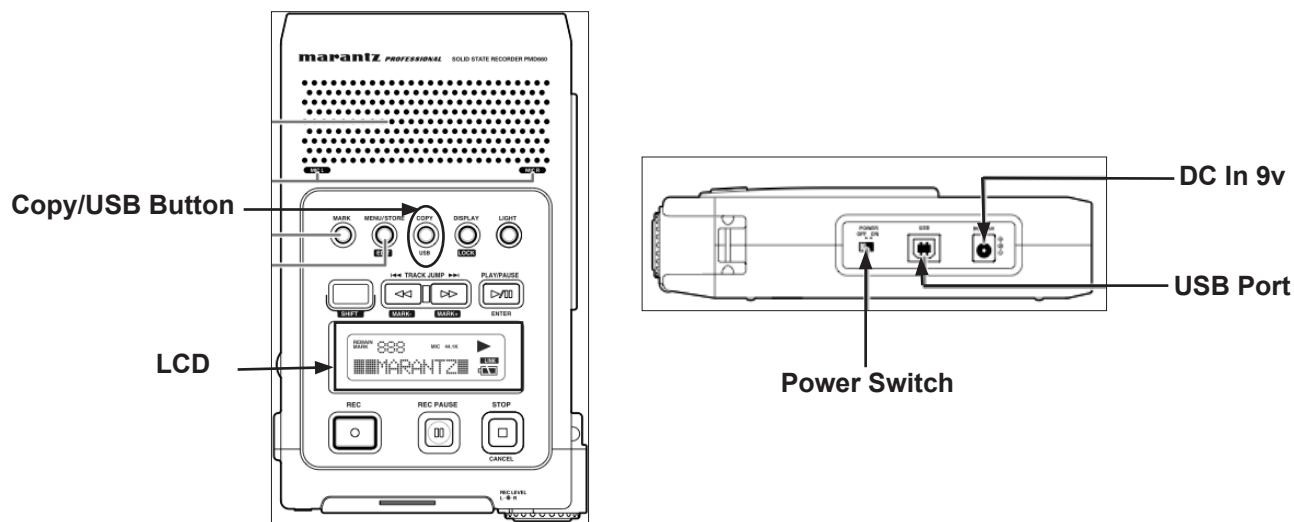
9. Auto Mark	Off, On, -60,-54, -38, -20dB	Off - Disables the feature On - enables automatic placement of EDL markers when the audio input drops below a selected threshold. Threshold options include -60,-54, -38, -20dB.	If you select 'On' you must press Enter a second time to set the threshold.
10. Silent Skip	On, Off, -60,-54, -38, -20dB	Off - Disables the feature On- enables Silent Skip which automatically pauses recording when there is a period of silence and resumes recording when the sound resumes. Sometimes referred to as 'Voice Activated Recording' Threshold options include -60,-54, -38, -20dB	If you select 'On' you must press Enter a second time to set the threshold. When Auto Mark menu choice is ON, resumption of recording after a record pause by Silent Skip adds an EDL mark.
11. Level Cont.	Manual, ALC	Manual - enables manual input level control using 'Rec Level' dials on the front of the unit. ALC - Automatic Level Control - Automatic Gain Control. You should Never use this!	
12. Meter Mode	Normal, Peak Only	Normal - all the level meters are displayed Peak Only - the level meter(s) display only a peak level.	
13. Mic Atten.	0, -20db	0 - disables this feature -20dB - Attenuates input from Mic/XLR inputs by -20dB. This is typically called a 'Pad.'	
14. AutoPowoff	On, Off	On - If the PMD660 is not used for 15 minutes during stop or play-pause, power can be automatically shut off to conserve battery life. Off- disables this feature.	Could be annoying either way.
15. Battery	Alkaline, NiMH	Alkaline - select this if you are using 4 standard AA batteries. NiMH - select this if you are using rechargeable Ni-MH batteries.	
16. Beep	On, Off	On - When battery charge is depleted the PMD660 will beep. Off - disables this feature.	
17. Machine ID	5 digit ASCII code	An audio track (file) has Machine ID information. This information is included in the file name. For example if the machine ID is 'ZZZZZ' the first file is numbered 'ZZZZZ001.wav' or 'ZZZZZ001.mp3.'	
18. Default	---	The Default menu choice resets all Menue (not Edit menu) items in the Preset to their default values.	Be careful not to accidentally press enter while Default is selected.
19. Version	---	Displays the firmware version for the PMD660	

Importing Audio onto a Powerbook from a Marantz PMD660 Digital Recorder:

This description assumes that you have recorded sound onto the PMD660 Flash RAM and are ready to transfer it to your Powerbook. This process is essentially a file transfer from the PMD660 to a Macintosh hard drive and then an import. The process is as follows:

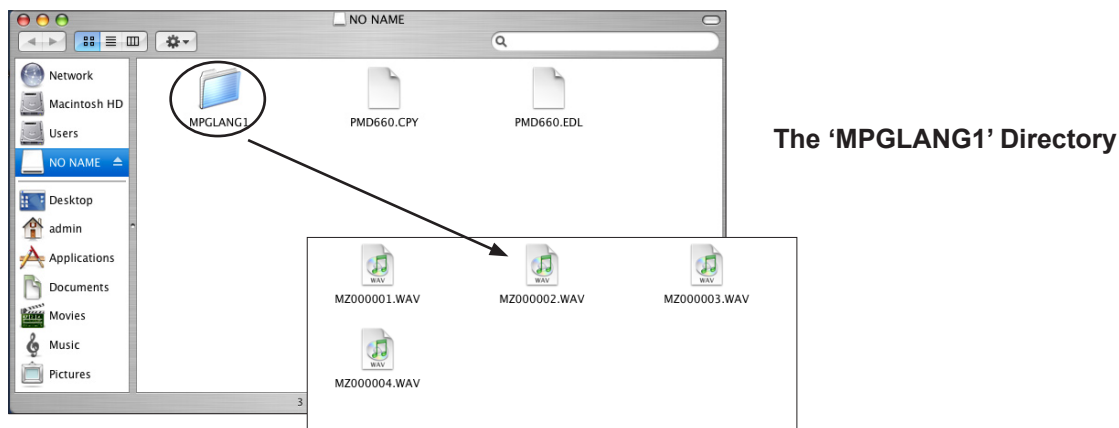


- 1 • **Plug the PMD660 into the wall** • You may use the DC 9v power supply provided with the unit. Do not turn the unit on yet.
- 2 • **Plug the PMD660 into the USB port of your Powerbook** • Plug the supplied USB cable into the USB Port on the PMD660 and the other end into the USB port on the left side of your Powerbook.
- 3 • **While pressing and holding the Copy/USB Button on the top of the PMD660, switch the power switch on the side of the PMD660 into the ON position** • The LCD should read 'USB.'

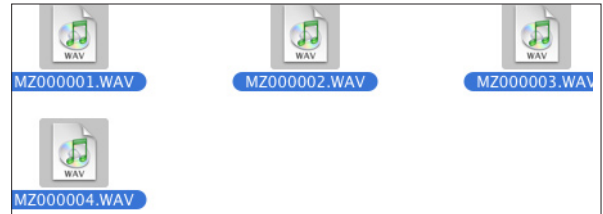


- 4 • **A new drive will show up on the desktop** • In this case the drive is called 'NO NAME' →

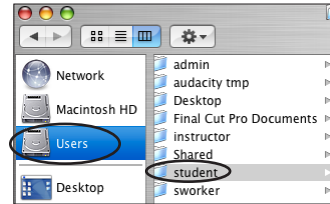
- 5 • **Open the MPGLANG1 folder** • Double click the 'MPGLANG1' folder. This is the folder that contains the audio you have recorded on the PMD 660.



- 6 • **Click and drag to select the contents of the MPGLANG1 directory** • You will notice that these are *.WAV audio files.



- 7 • **Drag the files you want to work with into a directory on the Users Drive** • In this case we have chosen **Users > Student >**



- 8 • **Eject the Marantz PMD660 recorder drive** • Go back to the desktop, select the USB drive and drag it to the trash or press **Apple/Command + E**. Both actions will eject the USB drive. You may now turn off the PMD660 and disconnect the USB cable.

That's it! You may now import this audio into iTunes, iMovie, iDVD, or Audacity.