

These operating instructions explain how to use SD Voice Editor, the software for SD Memory Card IC Recorders. Refer to the on-line help for further information on the menu items and more detailed instructions.

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Note

- The screen examples show the software being run on an English operating system. The screens may appear differently if you are using a non-English operating system.
- These operating instructions assume that the user has a grasp of the basics of Windows 98 and Windows Millennium Edition. Refer to your computer's operating instructions for further details.

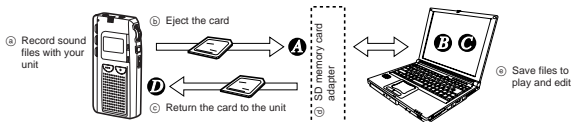
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What you can do with SD Voice Editor

You can use the SD Voice Editor to save, manage, and play sound files that you have recorded with your SD Memory Card IC Recorder (referred to as "unit") in these instructions.

■ File formats

- VM1 for SD Memory Cards
- WAV files in 8 or 16 bit monaural PCM with 8, 11, 16 or 22 kHz sampling frequency (☞ page 22).



1 Save files you have recorded on an SD Memory Card with the unit

Remove the SD Memory Card from the unit and save the files in the computer. Backup the files using SD Voice Editor to avoid losing valuable files due to accidental erasure or damage to the unit or card.

2 Edit the files on your computer

After recording files with the unit, you can use SD Voice Editor to divide, reorder, erase, title, resort and create new folders.

3 Play files on your computer

You can play VM1 files from an SD Memory Card or your computer's hard disk.

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Installing the driver for the PC card adapter or USB Reader/Writer

Before usage, read the instructions for the PC card adapter or USB Reader/Writer and install the necessary driver.

- 1 To computer USB port



Installing SD Voice Editor

- 1 Turn on the computer and start Windows.
- 2 Insert the included CD-ROM into the CD-ROM drive.

The installer program starts automatically and shows the welcome screen. If the installer program doesn't start, run the program by specifying the file name (☞ page 16).

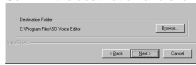
- 3 Click on "Next".



- 4 Read the user agreement and click on "Yes".



- 5 Confirm the destination and click on "Next".



- 6 Confirm the program folder and click on "Next".



- 7 Click on "Finish". Installation is complete. The SD Voice Editor icon appears on the desktop.



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Before saving files in your computer

Connection to your computer

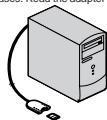
Eject the SD Memory Card from your unit and connect it to your computer in one of the following ways.

- 1 When your computer doesn't have an SD Memory Card slot

Use one of the following adapters. You will need to install a driver in both cases. Read the adapter's instructions for details.

- 1 Using a USB Reader/Writer (not included)

Connect the USB Reader/Writer to the computer's USB port and insert the SD Memory Card into it, taking care that it is facing the right way.



Note

- Correct operation can not be guaranteed if you use a USB hub or USB extension cord.
- Do not insert or eject SD Memory Cards while the USB Reader/Writer's ACCESS lamp is on. This can corrupt data on the card.

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System requirements

You will need the following software and hardware in order to use this application.

- An IBM PC/AT computer with the following attributes or equivalent.

- Ports: One of the following: USB, PCMCIA slot, SD Memory Card slot
- CPU: Pentium® 166 MHz or better processor or similar
- RAM: 32 MB or better (64 MB recommended)
- Hard disk space: 5 MB or better (additional space may be required depending on the audio data)
- Drive: CD-ROM drive (for installation)
- Sound board: Creative Sound Blaster 16 or equivalent
- Display: set to high color (16 bit color) or better, with a resolution of 800 x 480 dots or better

- Operating system: Microsoft® Windows®98 or Windows®Millennium Edition

This application can not be used on Windows®95 or WindowsNT® or Macintosh operating system and operation cannot be guaranteed on Windows®95 and Windows®2000.

■ Adapter

You will need one of the following adapters (not included) if your computer does not have an SD Memory Card slot.

- If your computer has a USB port – SD Memory Card USB Reader/Writer
- If your computer has a PCMCIA slot – SD Memory Card PC card adapter

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1 Convert files saved in your computer, add files to the SD Memory Card, return them to the unit and play them

By converting files you have saved in your computer, you can attach them to e-mail messages to make voice-mail. (This software does not include an e-mail application.) You can also return VM1 or WAV files you have saved to your computer or received by e-mail to your SD Memory Card. You can then play these files on the unit by reinserting the card.

For your reference

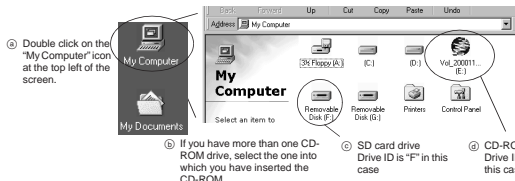
You can use MultiMediaCards instead of SD Memory Cards.

Installing SD Voice Editor

SD Voice Editor can be found on the included CD-ROM. Follow these steps to install it.

Checking drive ID

You may have to specify the drive ID during installation. Turn on the computer and start Windows. Refer to the following to check the ID of the drive.



- If you have more than one CD-ROM drive, select the one into which you have inserted the CD-ROM.
- CD card drive Drive ID is "F" in this case
- CD-ROM drive Drive ID is "E" in this case

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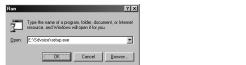
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If the installation program doesn't start automatically

- 1 In the Windows's "Start" menu, click on "Run..."



- 2 Type in "#:\SDVOICE\setup.exe" and click on "OK".



- #: Enter the CD-ROM ID here. (☞ page 12, Checking drive ID)
- Letters you enter here can be either upper or lower case.
- SD Voice Editor setup starts.

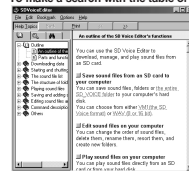
Using the on-line help

- To show the on-line help

Do one of the following.

- Click on "Start" and select "Programs" → "SD Voice Editor" → "Help".
- After starting SD Voice Editor, select "Help topics" from the "Help" menu.

- To make a search with the table of contents



Do one of the following:

- Double click on the icon and the titles within that subject are displayed.
 - Double click on the icon and to see an explanation of the item.
 - Making a search by keyword
- The table of contents is replaced by a list of keywords when you click on the "Keywords" tab. You can find a keyword by either entering it or scrolling through the list.

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- 2 Using a PC card adapter (not included)

Insert the SD Memory Card into the adapter, and then insert the adapter into the computer's card slot.

Note

- Ensure the SD Memory Card's lock switch is disengaged before inserting it.

- 3 When your computer has an SD Memory Card slot

Insert the card directly into the slot.

Formatting SD Memory Cards

Use the unit's formatting function to format cards. Read the unit's instructions for details.

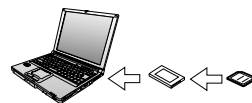
File formats

You can use the following sound file formats, but only VM1 files (ADPCM2 codec) can be played and edited with SD Voice Editor.

- VM1 format files (File name: MOBxxx, Extension: .VM1)

This is the format used to record sound on SD Memory Card IC Recorders.

You cannot play data unless it has been recorded using ADPCM2 codec format.



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■ WAV format files (File name: FILENAME, Extension: .WAV)

This is a monaural sound file format used regularly in computer applications. WAV files can be found in 8 or 16 bit PCM (pulse code modulation) with 8, 11, 16, or 22 kHz sampling frequency. You can play these files using the sound software included with Windows 98 and Windows Millennium Edition. Save files as WAV 16 bit when files are to be used with applications requiring this format.

You can convert WAV files to VM1 files with SD Voice Editor. Only WAV files that are monaural 8 or 16 bit PCM with a sampling frequency of 8, 11, 16, or 22 kHz can be converted. WAV files with a sampling frequency of 8 kHz are converted to SP VM1 files and WAV files with sampling frequencies of 11, 16, or 22 kHz are converted to HQ VM1 files.

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Starting SD Voice Editor

Starting up

- 1 Start windows.
- 2 Eject the SD Memory Card from the unit and insert it into the computer.
Insert the SD Memory Card before starting SD Voice Editor. The drive will not be displayed if you insert it after starting the SD Voice Editor.
- 3 Double click on the SD Voice Editor icon  on the desktop.
SD Voice Editor starts and the main window is shown.

For your reference

If the icon is not on the desktop, from the "Start" menu, select "Program" → "SD Voice Editor" → "SD Voice Editor".



For your reference

The main window may not be displayed as shown here if the Windows font setting is large. Change the font setting to small. Read the operating instructions for Windows for details.

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Exiting SD Voice Editor

To exit SD Voice Editor, either click on the close box (x) in the top right corner, or select "Exit" from the "File" menu.

Note

Exit SD Voice Editor before removing the SD Memory Card from the computer.



Playing files

Playing files

Use the player section to play VM1 files on your card or hard disk.

- 1 Select the drive with the drive box.
The main screen shows the folders in the SD_VOICE directory in the drive you selected.
- 2 Click on one of the folders in the list.
The files in the folder are listed.

- 3 Click on the file you want to play.

- 4 Click on  (play).
Play starts.




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Opening files and folders

You can copy files and folders from any location to the folders in the SD_VOICE directory so that you can play and edit them. These files or folders are displayed at the end of the list currently shown in the main window.

■ Adding files

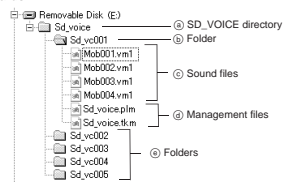
- 1 Click on  (file open) on the tool bar.
You can select "Open file" from the "File" menu.
- 2 Select the file you want to add, then click "Open".
 - If you selected a VM1 file
The file is added to the end of the file list.
 - If you selected a WAV file
The file is converted to a VM1 file then added to the end of the file list.



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The structure of the folders on SD Memory Cards

Folders on SD Memory Cards with sound files recorded on them are structured as shown at right. The SD_VOICE folder has four subfolders in it as the default: SD_VCO01, SD_VCO02, SD_VCO03, and SD_VCO04. The sound files are kept in these folders. You can create extra folders.
 • There can be between 1 to 9 folders.
 • There can be between 1 to 99 files.



An SD_VOICE directory with the same structure is created on your hard disk when you play or edit these files.

For your reference

These files and folders have all been attributed as "Hidden".

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SD Memory Card drive settings

A dialog appears when you start SD Voice Editor for the first time and if you specify a drive that doesn't contain an SD_VOICE folder. Use this dialog to specify the SD card drive.

● Specify the SD Memory Card drive and click "OK"

- The folders in the SD_VOICE folder are listed in the main window.
- The same drive is selected the next time you start SD Voice Editor.
- You can change the SD card drive with the main window later.

Note

- The name of the SD card drive depends on your computer operating environment and settings.
- If you specify a drive that doesn't contain an SD_VOICE folder (e.g., when you insert a new SD card), a dialog box appears asking if you want to create a new SD_VOICE folder. When you click "Yes", the SD_VOICE folder is setup and then the main window appears. If you click "No", the drive selection dialog is shown again.
- If the contents of the SD_VOICE folder are not displayed, for example if you insert or remove a card while the program is running, update the display by selecting "Refresh" from the "View" menu.



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5 Control play with the play section (page 61).

Refer to the on-line help for operation details.



③ Buttons for controlling play

For your reference

- You cannot play VM1 files by double clicking on them if you haven't started SD Voice Editor. To play files, start SD Voice Editor first, then follow the above steps.
- In order to play and edit files, SD Voice Editor creates on your hard disk an SD_VOICE folder the same as on the SD Memory Card (a virtual SD Memory Card). You cannot play or edit files from any other type of folder.

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■ Adding folders

Follow the same steps for adding a file. The folder you select is added to the end of the folder list.

Using the voice effector to adjust sound quality

You can adjust sound quality for easier listening by clicking on  (voice effector). The voice effector control appears above the volume display when you turn it on. You can change sound quality in ten steps by operating the arrows next to the controller.

Note

The voice effector may not be able to change sound quality on some recordings.

Repeat play


■ Repeat play

You can play a file repeatedly.

- 1 After selecting a file, click on  (repeat).

The repeat mode is activated and the slider turns white. The repeat mode is canceled if you click on the button again.

- 2 Click on  (play).

The file is repeated until you click on  (stop).

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A-B repeat

You can repeat play between two specified points.

- 1 After selecting a file, click on  (repeat).


The repeat mode is activated and the slider turns white.

- 2 Click on  (play).

The file is repeated until you click on  (stop).

- 3 Click on  (A) where you want repeating to start.

Click on  (B) where you want repeating to end.

- Play repeats between points A and B until you click on  (stop).

- The A and B points are cleared if you click on [reset] during play and repeat play of the file starts.

Using the slider to specify the points

After clicking on  (repeat), drag the slider to the point where you want repeating to start and click on  (A). Now drag the slider to the point where you want repeating to end and click on  (B).

Saving files to your computer's hard disk

Saving files to your computer's hard disk

You can save sound files, subfolders or the entire SD card folder to your computer's hard disk. You can choose from either VM1 or WAV.

Refer to the on-line help for details.

Saving files

You can save individual files or select multiple files to save to your hard disk from your SD Memory Card.

- 1 Select the SD card drive.
- 2 Open the folder to show the list of files.
- 3 Click on the files you want to save to select them.

No.	Title	Time	Date	Lock	File Size
001	Isral	00:00:18	2000/09/27 09:04		228,376
002	mei	00:00:18	2000/09/27 09:06	Lock	13,072
003	Apert	00:00:18	2000/09/27 09:07		49,184
004	Yoco	00:00:25	2000/09/27 09:07		49,184
005	Doman	00:10:32	2000/09/27 09:18		1,015,988
006	MD system	00:09:49	2000/09/28 14:46	Lock	2,365,360

- 4 Click on  (save file) on the tool bar.

The "Save" dialog opens.



You can also select "Save file" from the "File" menu.

- 5 Enter the destination, file name, and file format.

When you select WAV format: enter the file attributes and file name.

When you select VM1 format: the file name is automatically selected.

- 6 Click on "Save".

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Saving folders

- 1 Select the folder from the folder list.

- 2 Click on  (save folder) on the tool bar.


The "Save" dialog opens.

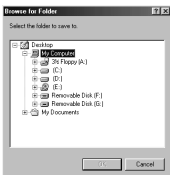
You can also select "Folder" - "Save folder" from the "File" menu.

- 3 Select the destination and click "OK".

To save the entire SD_VOICE folder

You can also save the entire SD_VOICE folder and all the files in it.

Click on  (save all) on the tool bar or select "Save all" from the "File" menu.



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Returning an SD_VOICE folder you have saved to your hard disk to an SD Memory Card

When you have saved the entire SD_VOICE folder with VM1 files to your hard disk, you can then return that folder to your SD Memory Card and play the files on your IC recorder. The contents of the SD_VOICE folder on the card are replaced by the contents of the new folder.

Refer to the on-line help for details.

Note

- The only SD_VOICE folders you can return to a card are those that are named "SD_VOICE", have the correct structure for an SD_VOICE folder, and contain only VM1 files. Folders with a different structure cannot be played on your IC recorder.
- You cannot select multiple SD_VOICE folders, files or subfolders.
- A dialog will appear to advise you if the card doesn't have enough memory.


- When you replace the existing SD_VOICE folder on a card, all of its contents will be deleted. Follow the on screen directions if you need to make a backup.

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Deleting files and folders


You can delete files and folders with one of the following operation.

Select the file or folder and,

- Click on  (delete) on the tool bar
- Right click on the item and select "Delete" from the short cut menu
- Press the delete button on the keyboard
- Select "Delete" from the "File" menu

Creating a new folder

You can create a new subfolder within the SD_VOICE folder with one of the following operation.

- Click on  (create folder) on the tool bar
- Select "Folder" - "New folder" from the "File" menu
- Right click on the folder list section and select "Create folder" from the short cut menu

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Saving files on your hard disk to an SD Memory Card

You can save individual or multiple files (VM1 format) to an SD Memory Card from your hard disk. VM1 files remain as they are and WAV format files (8 or 16 bit monaural linear PCM) are converted to VM1 files.

You can play these files with your IC recorder.

The operation depends on where you want to save the files on your SD Memory Card. Refer to the on-line help for details.

Note

You cannot move files to the SD Memory Card by dragging and dropping on the desktop or in Windows Explorer. This can corrupt the files and folders.



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Editing files on your computer

You can rearrange and delete the files in the SD_VOICE folder with your computer. Refer to the on-line help for details.

You can enter your own titles for the files to make it easier to find the ones you need. Naming the files makes it easier to find them if you move them to a different folder and editing is made simpler.

Moving files and folders

You can move files within a folder to rearrange their order, you can move them to a different folder, or you can move folders to change their order within the SD_VOICE folder.

Drag and drop the file or folder to the position you want to move it to.



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Dividing sound files

You can divide a sound file into two separate sound files at a time you specify.

■ Dividing while playing a file

- 1 Play the file you want to divide.
- 2 Press **[DIVIDE]** (divide) at the point you want to divide the file.
- Specifying a point before division
 - 1 In the file list, click on the file you want to divide.
 - 2 Move the slider to the point where you want to divide the file.
 - 3 Press **[DIVIDE]** (divide).
 - A dialog appears asking whether you want to divide the file.
 - To divide the file, click "Yes". To cancel the operation, click "No".
 - You can return the file to its original state by clicking **[UNDO]** (undo) on the toolbar.

The cursor moves to the file that was added. As the two files will have the same file name, you should change the name of one of them to make later editing simpler.

Locking files

Locking files means that you will be unable to change their titles or divide them.

A dialog will appear when you try to delete or move a locked file. Click "Yes" to proceed. Files can be unlocked again.

- 1 In the file list, click on the file you want to lock.
- 2 Select "File lock" from the "Edit" menu.
 - To unlock the file, in the file list, click on the file, then select "File unlock" from the "Edit" menu. The file list shows whether a file is locked or not.

Attaching files to e-mail

You can send e-mail with sound by converting files to WAV format and attaching them to e-mail messages.

- 1 Select the file you want to send.
- 2 Click on **[SAVE FILE]** (save file) on the tool bar.
- 3 Select WAV for the file format and click on "Save".
- 4 Startup your e-mail application (not included).
- 5 With your e-mail application's attach file function, select the WAV file you created.
- 6 Send the e-mail.
 - Refer to the instructions for your e-mail application for details on how to attach files.

Parts and functions of the main window



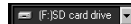
1 Menu/tool bar

You can access all the menu commands with the menu bar. Commonly used menu commands appear as buttons on the toolbar. Refer to the on-line help for details.



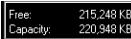
2 Drive box

Select the SD Memory Card drive you want to display with the drive box. The folders and files in the SD_VOICE folder in the selected drive are listed.



3 Remaining drive memory

This shows the total memory and remaining memory of the drive you selected with the drive box.



Note

Cards shown as being full when in the IC recorder may appear as having space when viewed in SD Voice Editor. This space is used by the IC recorder's operating system.

4 Folder list

This shows the folders in the SD_VOICE folder in the drive you selected with the drive box. The files in a folder are shown in the file list when you click on it.



5 File list

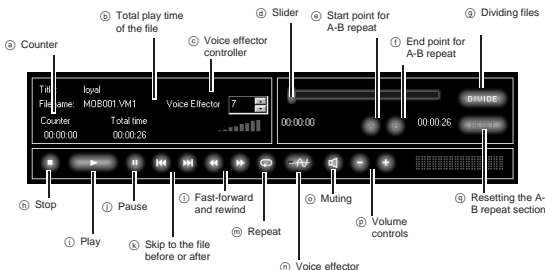
This shows the files in the folder you selected in the folder list. Along with the file number, the list also shows the titles, recording times, recording dates, whether the files are locked or not, and the recording mode.

No.	Title	Time	Date	Lock	File Size	Mode
001	loyd	00:00:26	2000/09/27 09:04		229,376	SP
002	royal	00:00:31	2000/09/27 09:06	Lock	131,072	SP
003	Asari	00:00:26	2000/09/27 09:07		43,152	LP
004	Voice	00:00:26	2000/09/27 09:07		43,152	LP
005	Domain	01:10:32	2000/09/27 09:18		1,059,808	LP
006	Md system	00:09:49	2000/09/29 14:46	Lock	2,365,967	SP

6 Player section

Use this section to play files. The contents of the SD Memory Card and information about the file playing are shown. Refer to the on-line help for details.

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Troubleshooting

Problem	Causes and solutions
Cannot install.	<ul style="list-style-type: none"> • There may not be enough memory on the hard disk. <ul style="list-style-type: none"> → Check the disk's memory.
Cannot download files from an SD Memory Card.	<ul style="list-style-type: none"> • The drive for the SD Memory Card hasn't been recognized. <ul style="list-style-type: none"> → Exit SD Voice Editor, reinsert the SD Memory Card correctly, then restart SD Voice Editor. The drive will not be displayed if you insert the card after starting the program. • Confirm that you are using the USB Reader/Writer or PC card correctly. See the operating instructions for the adapter for details.
Cannot play file.	<ul style="list-style-type: none"> • The computer doesn't have a sound board. (See page 8) • The computer doesn't have a speaker or speakers are not connected.
Volume is low.	<ul style="list-style-type: none"> • Turn up the computer's volume. (Refer to the computer's operating instructions for details.)
Sound skips during play.	<ul style="list-style-type: none"> • Do not operate Windows or other applications during play.
The screen freezes while saving, adding, or deleting files.	<ul style="list-style-type: none"> • Copying and deleting large files may take some time. <ul style="list-style-type: none"> → Normal operation resumes once the operation is completed.

Note

Use the latest version of the driver software for your sound board.

Error messages

Refer to the list of error messages in the on-line help.

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File sizes

The size of files in kilobytes when saved to a computer

Mode/time	VMI file	WAV files			
		8 KHz		11 KHz	
		8 bit	16 bit	8 bit	16 bit
HQ/1 minute	472	—	—	647	1294
SP/1 minute	236	470	940	939	1878
LP/1 minute	95	470	940	—	—

Note: WAV files cannot be converted to LP mode.

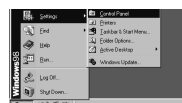
Unit: KB

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Uninstalling SD Voice Editor

Do the following to delete SD Voice Editor from your hard disk.

- 1 In the "Start" menu, select "Settings" → "Control panel".



- 2 Double-click on "Add/Remove Programs".

The uninstaller program will start.

- 3 Follow the onscreen instructions.



Note

If you want to install this program onto a different drive or folder, first uninstall it, then reinstall it into the desired location. The program will not work if you merely move the file.

Limitations in Windows Explorer

- SD Memory Cards are shown as external drives (for example, "D:") in Windows Explorer when they are connected to the computer. Do not use Explorer to move SD Memory Card files or folders, change their names, or delete them. This can render the files unplayable. Use only SD Voice Editor for editing.
- Similarly, do not use Explorer to move, change the names of, or delete files and folders you have saved to your computer.
- When using Explorer on a portable computer, ensure the computer is connected to an AC power source. Data can be corrupted if the charge in the rechargeable battery is low.

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