

**VOICE MAGIC**

# **DIGITAL VOICE RECORDER**

---

## **OPERATION MANUAL**



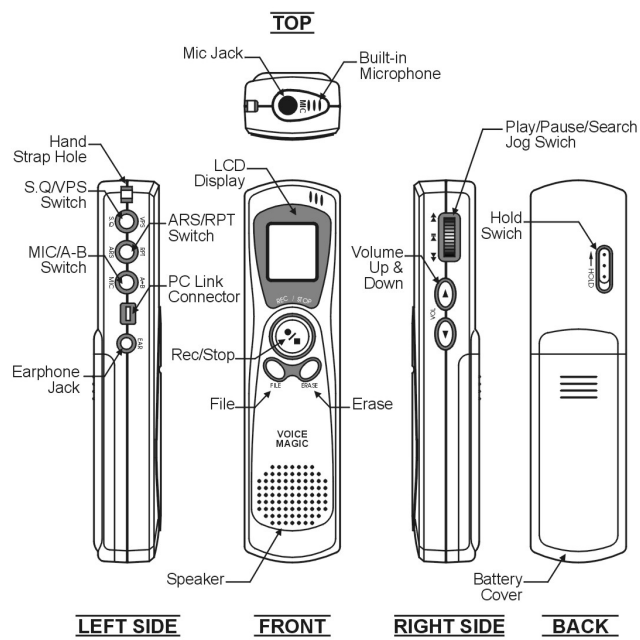
---

## **Contents**

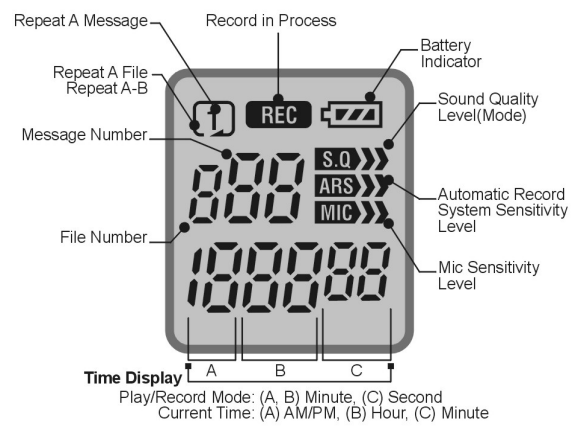
---

Voice Magic Overview .....	3
Features and Functions .....	5
Installing Batteries .....	6
Hold .....	8
Time Adjustment .....	8
Selection of Mode .....	9
Recording .....	10
Playback .....	15
Erasing the Recorded Messages .....	19
Connecting to External Equipment .....	21
Connection to PC .....	24
Recording Voices from Telephones .....	23
Specifications .....	28
Precautions .....	29
Troubleshooting .....	31

## Voice Magic Overview



## DISPLAY



---

## **Features and Functions**

---

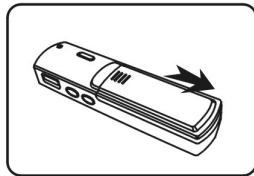
- Fast transfer speed to PC approx 10:1
- Variable Playback Speed (V.P.S)  
x0.5, x0.7, x1.0, x1.5, x2.0
- Up to 1164-minute recording time (VR-2032, LP mode)
- 5 Files-each file contains up to 99 individual messages
- LCD shows message number, real-time counter, current time and operating modes
- Three sound quality recording modes (standard mode, medium mode, long mode) and ARS (Automatic Recording System) sensitivity.
- Two steps Microphone Sensitivity (H/L)
- Digital Volume control with 20 steps by using Jog switch
- Repeat Message or Repeat File selection
- Repeat specific section (A-B)
- Ability to erase each message or each file
- External input/output terminal for recording with external equipment
- Monitor function to listen to recorded messages with earphones
- Display shows the remaining recording time
- Battery Power Level & Low Voltage Indicator
- Built-in microphone and speaker
- Ultra slim design fits in your hands
- Hand strap for easy carrying

## Installing Batteries

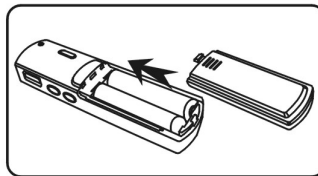
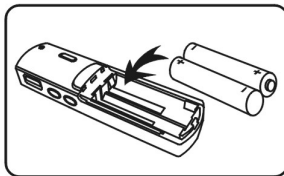
### Loading/Replacing the Batteries

**Caution:** Be sure the unit is in Clock mode when replacing batteries. If any button is pressed while changing batteries, the time will be lost and will have to be reset.

1. Open the battery cover.



2. Load two "AAA" batteries (LR-03) in the compartment, and then slide the cover back into place



3. Check the battery condition as indicated below.



FULLY



NORMAL



WEAK



EXHAUSTED

**Note:**

1. If the battery condition is not shown correctly after replacement of the batteries, please check the +, - polarity or re-install the batteries.
2. The stored time can be sustained for about 1 minute without batteries. If the change of batteries is done within 1 minute, there will be no need to adjust the time again.
3. When you replace the batteries, the LCD display may become blurred and will gradually increase in sharpness.

**Battery Life**

Battery Type	LR-03 Alkaline
Recording Mode	Approx. 12 hours
Speaker Play (VOL.12)	Approx. 7 hours
Earphone Play (VOL.12)	Approx. 8 hours

**Caution:**

1. Do not use different types of batteries together.
2. Remove the batteries if the voice recorder will not be used for a prolonged period of time.

---

## Hold

---

1. To activate: Push the hold button on the rear side.  
"HOLD" will be displayed on the LCD for 1.5 seconds.
2. If any button is pressed while in hold mode, "HOLD" will be displayed on the LCD.



---

## Time Adjust

---

### Time Adjustment

1. Press the ERASE button for more than 1.5 seconds
2. When the digits are blinking, adjust the time by pressing the forward (▶▶) or rewind (◀◀) buttons. To adjust the minutes, use the ▶|| button.
3. After setting the time, press the REC/STOP button to store the adjusted time.





---

## Selection of Mode

---

### Power On/Off

To activate: Remove or replace the batteries.

### Clock Mode

This mode displays the current time with minimized battery consumption.

If any button is pressed while in clock mode, the unit will enter stand-by mode.



### Stand-By Mode

Before operating, it shows current file, message No, and Recording Time.

If there is no recorded Message in a current file, message No. is displayed as "00" and the current time is displayed.



Adjustment of each function is available in this mode.  
This mode is maintained for 30 seconds. If there is no operation for 30 seconds, the unit will revert to clock mode.

## Recording

Recording is accomplished using the built in microphone.

### How to Record

1. In stand-by mode, release the HOLD.  
Press the REC/(STOP) button after turning the microphone toward the sound sources.



2. Recording is activated and "REC", file No., and message No. are displayed on LCD. Also, the "REC" icon will be blinking.



The recording message number will be the next number in sequence from the last recorded message.

3. To stop the recording, press the REC/(STOP) button again.
4. After stopping the recording. If there is no operating within 30 seconds, the unit will revert to clock mode automatically
5. During recording, only showing the remaining recording time and HOLD are available.



### Note :

1. The minimum recording time is 2 seconds.
2. To avoid any failure, perform a trial recording firstly.

3. If the recording time exceeds the maximum, "FULL" will be displayed on the LCD and further recording will not be available.
4. Maximum 99 messages can be stored per file. If further messages are being recorded, "FULL" is displayed on the LCD and further recording is not available. Please select the new file.
5. Maximum recording time is available at a message.



### **ARS (Automatic Record System) mode**

It is only available when a source of sound exists

1. In stand-by mode, press REC/(STOP) button for over 1.5 seconds.
2. "ARS" and "REC" icons will blink and the recording time will be displayed
3. If there is no recording sound, "PAUSE" is displayed on the LCD. Also, "REC" and "ARS" are fixed.
4. The recording will re-start when there is a source of sound.



### Selection of ARS Sensitivity

Select the ARS recording sensitivity with the ARS/(RPT) button in stand-by mode.

- **ARS** : Loud sound input recording
- **ARS >** : Normal sound input recording
- **ARS >>** : Lower sound input recording

### Recording Sound quality (S.Q)

Select the 3 steps recording sound quality with the S.Q/(VPS) button in stand-by mode.

- **S.Q** : Lower quality, Long mode(LP)
- **S.Q >** : Normal quality, Normal mode(MP)
- **S.Q >>** : High quality, Standard mode(SP)



#### Available Recording Time

Model	SP (standard mode)	MP (medium mode)	LP (long mode)
VR-2008	133 min	177 min	290 min
VR-2016	266 min	355 min	581 min
VR-2032	533 min	711 min	1164 min

\* SP mode produces the best recording quality.

### Microphone Sensitivity (MIC) selection

Select the Mic. Sensitivity with MIC/(A-B) button in stand-by mode based on the distance from the sound and the loudness of sound.

-  : Low Mic. sense (Short distance source)
-  : High Mic. sense (Long distance source)

### Remaining Recording Time & Memory Capacity

To check the remaining recording time and memory capacity, press and hold the FILE button.

- \* Note :
1. Recording time and memory capacity cannot be checked in playback mode.
  2. The memory capacity can be checked only in stand-by mode.
  3. During recording, only the remaining recording time is displayed.

(Memory capacity)



(Remaining record time)

### Monitoring

Listen to the recorded message by using an external earphone. The adjustment of volume level is not for recording level but for Monitoring.

### Selecting a File

There are 5 files which can be accessed using the FILE button in stand-by mode. A maximum of 99 messages are available per file. Recording and playback are available within a selected file.



- \* Similar messages may be recorded in a same file.
- \* If there are no recorded messages within a file, the current time will be displayed on the LCD

## Playback

Available functions at playback mode

- Variable playback speed (V.P.S.)
- Repeat (RPT)
- Repeat A to B (A-B)
- Pause ( ►|| )
- FF ( ►► )
- REW ( ◀◀ )

### How to Playback

1. In stand-by mode, release HOLD. Select a message with a sliding jog switch and press PLAY/(PAUSE) jog switch.



2. File No., Message No., and playing time are displayed on the LCD.



3. To pause the playback, press the PLAY/(PAUSE) Jog switch



4. To stop the playback, press the REC/(STOP) button. If the press the PLAY/(PAUSE) button one more time, and the message will playback from the beginning.

5. If there is no operation after 30 seconds on stop, the unit will revert to Clock mode automatically.



6. If there is no recorded message, "no InF" is displayed for 1.5 seconds and playback is cancelled. The current time is displayed automatically.



### Variable Playback Speed (V.P.S)

To control the playback speed, press the VPS/(S.Q) button in playback mode. [SPd 3], [SPd 4], [SPd 5], [SPd 1] and [SPd 2] sign will be displayed on the LCD after each press of the button.

Each sign indicates a playback speed of x1.0, x1.5, x2.0, x0.5 and x0.7, respectively.



(x1.0)



(x1.5)



(x2.0)



(x0.5)



(x0.7)

\* The V.P.S is available only in playback mode. The default playback speed is [SPd 3].



### FF & RW search in playback

To search for a desired message quickly in the playback mode, quickly depress the Fast Forward (▶▶) button or the Rewind (◀◀) button.

To rewind or fast forward the playback message, Press the Fast Forward (▶▶) button or Rewind (◀◀) button for longer than 1.5 seconds.

### Selecting a Message

To search the next or previous message, press fast forward(▶▶) or rewind(◀◀) button in the stand-by mode.



\* If there is no recorded message in a file, the button will not operate and the current time will be displayed.

### Repeat a Message or a File

To listen to a recorded message repeatedly, press the RPT/(ARS) button in playback mode. The display on the LCD will be the same as the image below and to the left.

To listen all recorded messages repeatedly in a file, press RPT/(ARS) button once again in the playback mode. The display on the LCD will be the same as in the image below and to the right.



(Repeating one message)



(Repeating all messages in a file)

\* To De-Activate : Press RPT/(ARS) button one more time.

### Repeat A to B

To listen to a specific section out of a message repeatedly

1. Press A-B/(MIC) button to fix the point "A" in the playback mode. The playing time sign is blinking on the LCD.
2. Press A-B/(MIC) button once again to fix the point "B".
3. "A" to "B" will playback repeatedly and the symbol will blink on the LCD as in the drawing.



To- Deactivate : Press A-B/(MIC) button once again. The next section of the message will playback.

## Erasing the Recorded Messages

### Erasing one message

1. In the stand-by mode, select the message No. to be erased. Press the ERASE button
2. "ErASE" will blink on the LCD.  
If there is no recorded message, "no InF" will blink on the LCD.
3. Press the ERASE button one more time to erase the message.
3. If the ERASE button is not pressed within 5 seconds, erasing is cancelled and the unit will revert to stand-by mode.

\* To cancel the Erasing within 5 seconds, press any button except ERASE button.



### Erasing whole messages in a File

1. In the stand-by mode, select the file to be erased. Press the Erase button for more than 1.5 seconds.
2. "EFILE" will blink on the LCD.
3. Press the ERASE button one more time to erase all recorded messages in a file.



4. If the ERASE button is not pressed within 5 seconds, Erasing will be cancelled and the unit will revert to stand-by mode.

\* To cancel the Erasing within 5 seconds, press any button except ERASE button.

**Caution:** 1. An erased message or file cannot be restored.  
2. Do not take out the batteries when erasing, which could critically damage the flash memory.

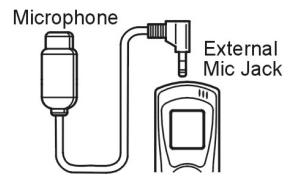
---

## Connecting to External Equipments

---

### Recording with External Microphone

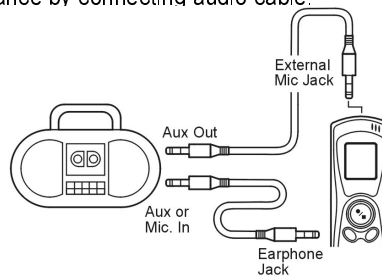
For recording with an external microphone, connect the mic to the external microphone jack.



\* When the External Microphone is connected to External Mic. jack, the built-in microphone will not operate.

### Connection to External Appliance

The following figure explains how to record from an external appliance to the unit, and send a recorded message back to an external appliance by connecting audio cable.



### **Recording from External Appliance**

Connect the audio cable between External Mic. jack of the unit and the audio output jack of the external appliance.

It is possible to monitor the recording sound through an external earphone. When this is done, the recording level will not be controlled by the volume controller of the set.

### **Recording into External Appliance**

Connect the audio cable between earphone jack of the unit and External Mic. jack of the external appliance. Press the PLAY button of the Voice Recorder and the RECORD button of the external appliance simultaneously. (Try a test recording first, in order to avoid any recording failure. Adjust the recording volume by using the volume controller of the voice recorder.

## Connection to PC

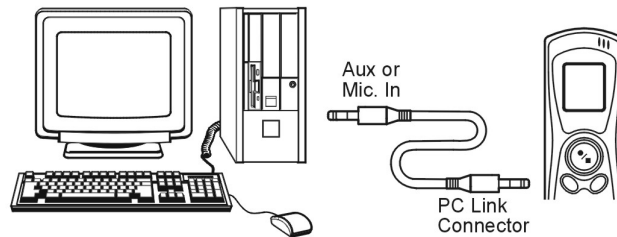
### Jet-Voice Mail

#### <Conditions>

- PC : IBM PC, Min. Pentium-150
- Memory : Min. 8MB(Over 32MB is recommended)
- Operation System : WIN 95/98/ME/2000
- Min. 4MB - Sound Card at Hard Disc

#### <How to Connect>

Jet Voice Mail is a program to save the recorded messages to PC by the sound card in PC and send the voice mail and edit the saved messages. Please check above PC conditions before using PC and connect Line-in/out cable between PC and Voice Magic as the drawing below side.



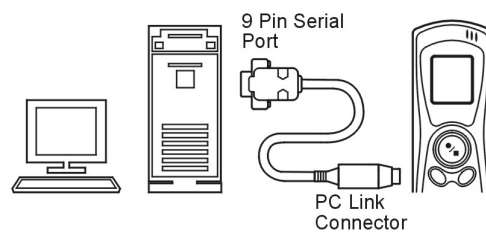
### **<How to Install Program>**

1. Turn the power on and insert CD disc into the CD-ROM drive in the PC.
2. The program will be set automatically.
3. Click the NEXT to be continued and click the CLOSE to exit SETUP.
4. Jet-Voice Mail is automatically displayed on the screen.
5. Double-click the Jet-Voice Mail icon on the screen. (Jet-Voice Mail graphic will be displayed on the screen.)
6. Click each icon you desire to use on the menu bar. (Record, Playback, Voice Mail... etc.)
7. Please refer to the "ReadMe" icon for more detailed information on operation.



### **Fast Transfer message to PC (Approx. 10:1)**

This is the program to save the recorded messages into PC by using a PC Interface cable.



#### **<Installing The Voice Magic Manager>**

##### **1) Operation Environment**

- At least Pentium 150 PC, which has a sound card, serial port.
- Window 95/98/ME/2000
- RAM 32MB, HDD 32MB

##### **2) How to install program**

- Insert the CD disc into CD-Rom drive.
- The program will be set automatically.

##### **Note:**

1. Jet-Voice-Mail : It is used to save the recorded messages to the PC and to send the Voice Mail.
2. Voice Magic Manager : It is used to save the recorded messages to the PC.

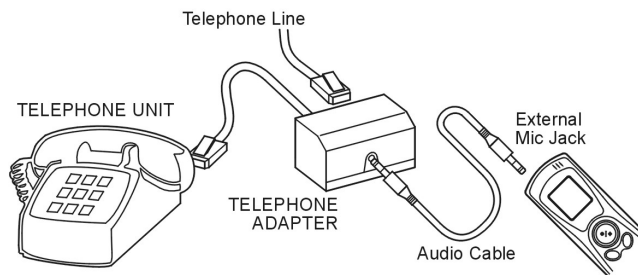
\* The detailed information is contained in the CD-ROM.

**<Trouble/Solution>**

1. Question: Recording/playback is not activated after installation.  
Answer: Check if the sound card is in the PC or if the sound card is properly inserted in the PC.
2. Question: No sound during playback after recording.  
Answer: 1) Check if the wire is properly connected into the mic-in on the sound card.  
2) Ensure the recording sound is audible.  
3) Check if the volume level of Mic-in is set at 0 on the window box.
3. Question: Too much noise during playback.  
Answer: 1) Check if the volume level of Mic-in is too high. If so, set the volume level to an appropriate level.  
2) If there is still noise after adjusting the volume level, there may be a problem with the sound card.
4. Question: Poor sound quality or volume is too low.  
Answer: 1) Click the option menu on the upper side of graphic. The sound quality control button will be displayed.  
2) Set Mic-input level to an appropriate level and conduct several tests.

## Recording Voices from Telephones

You can record the messages from a phone (excepting digital phone)



1. Connect an audio cable to the External Mic. jack of the set to the Audio out jack of the adaptor for phone recording.
2. Connect a phone cable to the phone to the adaptor for phone recording.
3. Connect the phone line to another jack of the adaptor.
4. Press the REC button on, and the message form the phone will be recorded.

## Specification

Model	VR-2008	VR-2016	VR-2032
Recording time(LP)	290 min	581 min	1164 min
Recording System	Built-in Flash Memory		
Dimension	104(L)×26(W)×18(H)mm		
Weight	Approx. 34g without Battery		
Power Supply	DC 3V, "AAA" Size Alkaline Batteries ×2		
Battery Life	About 12 hours in Recording mode About 8 hours in Earphone Play at volume 12 About 7 hours in Speaker Play at volume 12		
Maximum No. of Recording Message	495 Messages, 5 Files×99 Messages		
Maximum Output Power	60mW, @8 ohm, 10% THD		
Frequency Bandwidth	500Hz – 3300Hz		
Input	Plug-in Power Microphone (Mini Plug Mono) Impedance is 2.2K ohm		
Output	Earphone (Mini Plug Mono) Impedance is 32 ohm		
Speaker	Built-in 20mm Diameter		
Microphone	Built-in Omni-directional Elect Condenser Microphone (Mono)		
Condition for Use	Temperature 0℃ to +50℃		
Basic Accessories	Alkaline batteries LR03 (2), Install S/W CD (1) User's Manual (1), External Microphone (1), Telephone adaptor (1), Line-in/out cable (1), Hand Strap (1), Audio Cable (1), Earphone (1), PC Interface Cable (1)		

Design and specifications are subject to change without notice.

---

## **Precautions**

---

Please read following precautions before using the voice recorder

1. Do not use or place the product at the following conditions:
  - Hot places (above 50 °C)
  - Cars whose windows are closed
  - At a high humidity place (like bathroom)
  - Under direct sunlight or near the heaters
  - Dusty Areas
2. Avoid violent vibration or shock.
3. Do not drop the product.
4. Do not use the recorder when driving a car or walking.  
This may cause an accident.
5. Do not repair, disassemble, or alter your voice recorder yourself
6. Do not use in airplanes or areas restricting the use of electronic devices.
7. Do not apply excessive force to the LCD window.
8. Do not heat, disassemble or place the unit in fire. An alkali solvent may harm skin, eyes or cause a fever.
9. When above case, wash your skin or eyes with clean water and see a doctor immediately.

10. If any malfunction (such as smoke or transformation due to heat) happens, remove batteries immediately.
11. A magnetic card such as a credit card or a subway communication ticket may not function if it is placed on or close to the speaker.
12. The seller holds no liability for any damages caused by misuse of the product, and will not be liable for claims of third parties.
13. The seller holds no liability for any lost messages that are caused by repair or any other troubles.

## Troubleshooting

SYMPTOM	REASON	REMEDY
No display on LCD	Batteries are exhausted. Batteries' polarities are not correctly placed.	Replace the batteries. Place the batteries in the right position.
Recording does not operate	HOLD switch is ON. All message number or spaces are fully used. Batteries are exhausted.	Set HOLD switch to OFF position. Erase unnecessary messages. Replace the batteries.
Playback does not operate	HOLD switch is ON. No recorded messages. Batteries are exhausted.	Set HOLD switch to OFF position. Check the recording message number. Replace the batteries.
No speaker sound	Volume level is set to 0. Earphone is connected to main unit.	Control the volume level. Disconnect the earphone from main unit.
No earphone sound	Volume level is set 0. Earphone plug is not connected properly.	Adjust the volume level. Insert the earphone plug into main unit perfectly.

\* When you find abnormal sign during operation or see abnormal operation, unload batteries from main unit and reload batteries.

\* Initialisation Malfunction : In order to initialise this recorder, unload batteries and then press File & Erase button together. After 3 minutes, the "rESeT" message will be displayed on LCD.