



Appendix C - User's Manual

POWER OF ATTORNEY

DATE : Dec. 27. 2002

Federal Communications Commission
Authorization and Evaluation Division
7435 Oskland Mills Road

Columbia, MD 21046

To Whom It May Concern :

We the undersigned, hereby authorize THRU Lab & Engineering on our behalf, to apply to the FEDERAL COMMUNICATIONS COMMISSION on our equipment. Any and all acts carried out by THRU LAB & ENGINEERING. on our behalf shall have the same effect as acts of our own. This authorization expires on Jan. 31. 2003.

This is to advise that we are in full compliance with the Anti-Drug Abuse Act. We, the applicant, are not subject to a denial of federal benefits pursuant to Section 5301 of the Anti-Drug Act of 1988, 21 USC853a, and no party to the application is subject to a denial of federal benefits pursuant to that section.

Telewin Inc.


B. S. CLARK
PRESIDENT/TELEWIN INC.

(AUTHORIZED SIGNATURE)

FCC NOTICE

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES.
OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS:
(1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND
(2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED,
INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRABLE OPERATION.

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 communication. 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 turning 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 difference from that to which the receiver is connected.
- Consult the dealer of an experienced radio/TV technician for help.

NOTE : The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

USER'S GUIDE

Digital Voice Recorder

MP3 PLAYABLE

(TDR-2128M)

TecNet

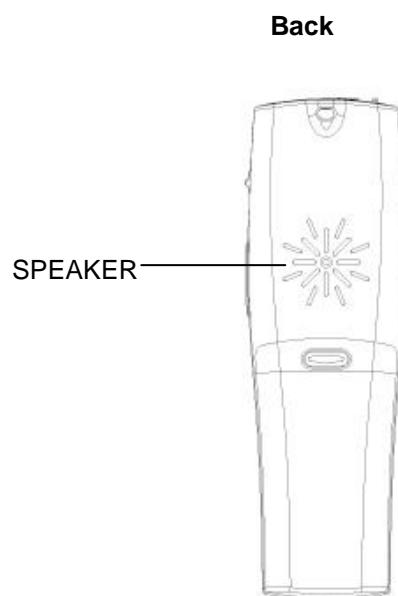
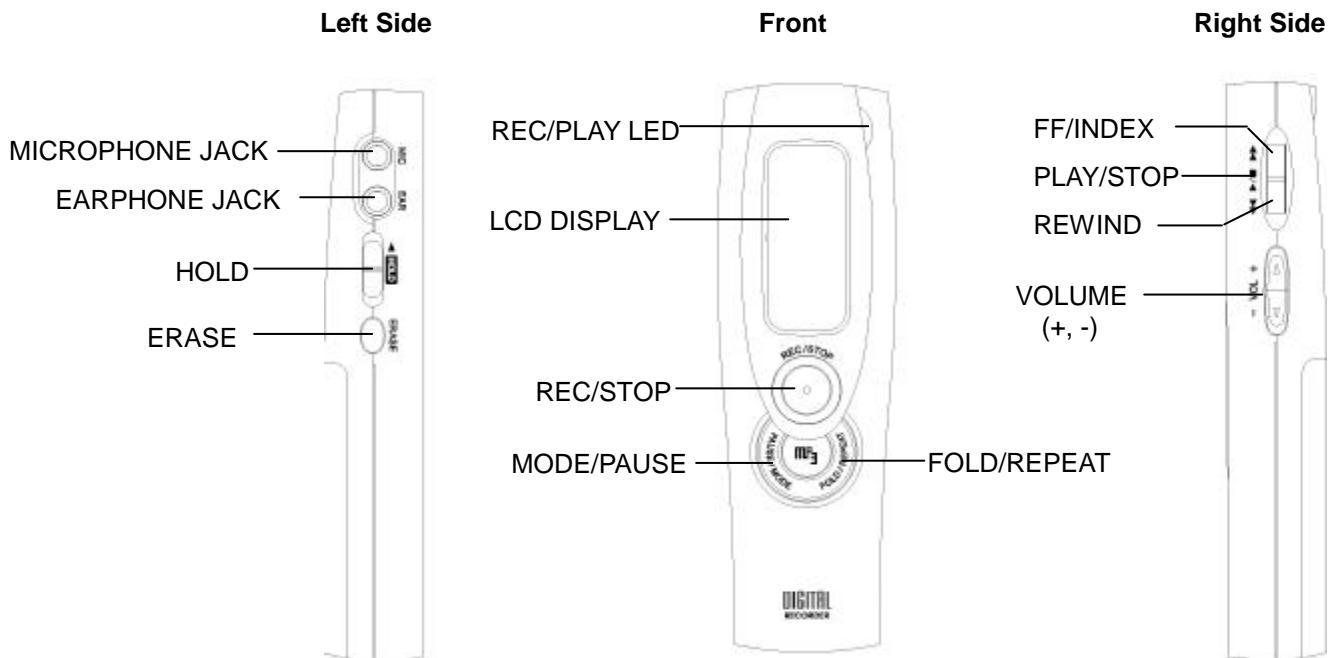
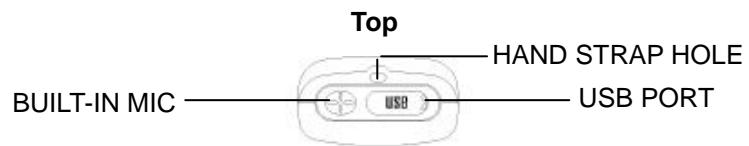
- Contents -

Features	-----
Locations of Function and Control Button	-----
LCD Description	-----
Battery Installation	-----
Battery Life Time	-----
Power On & Off	-----
Recording	-----
Playback	-----
Erasing	-----
Adjusting Volume	-----
Selecting the File number	-----
Hold Function	-----
Setting the VOS Mode	-----
Setting Mic Sensitivity	-----
Repeating the Playback	-----
Setting Beep On/Off Function	-----
Setting Preengaged Recording	-----
Setting Alarm Function	-----
Connecting External Equipments (Optional)	-----
Using MP3 Player	-----
Manager Program Installation	-----
Using Manager Program	-----
Troubleshooting	-----
Cautions	-----
Specifications	-----
FCC Note	-----
Guarantee	-----

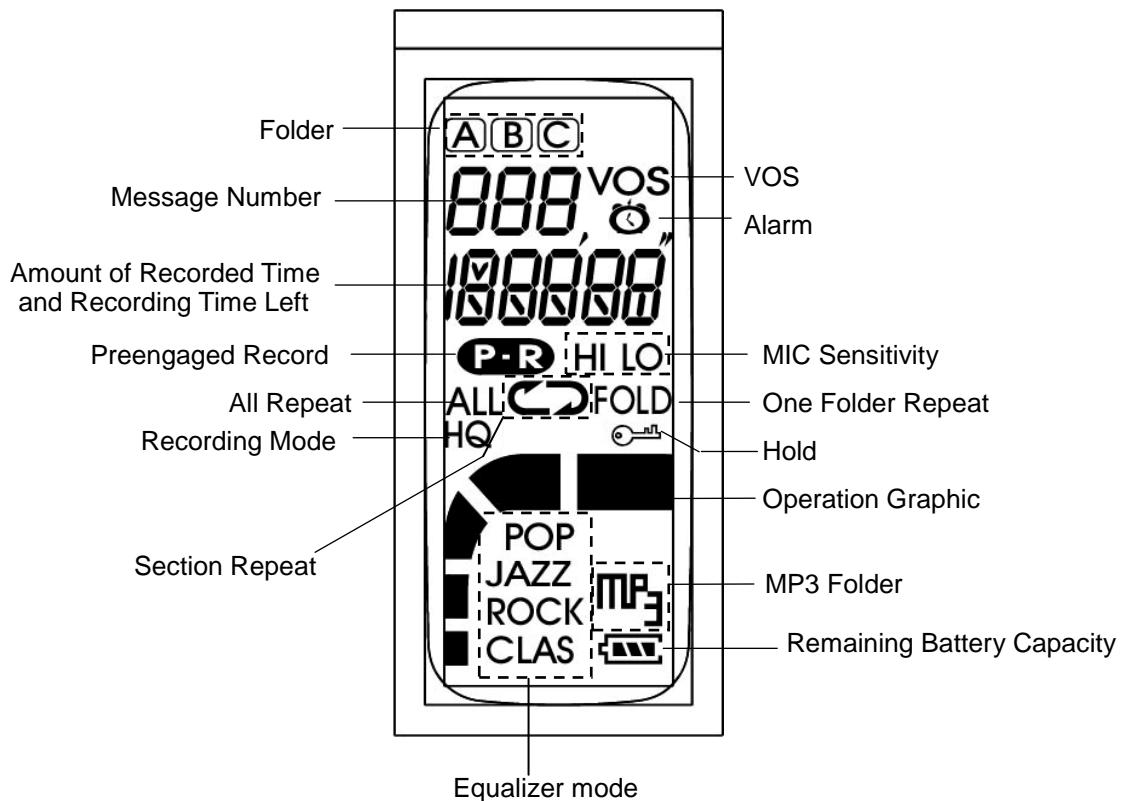
Features

- Preengaged Recording
Enables to record at any time when you want.
- Alarm Sound Function
You can hear the alarm sound at any time when you want.
- Recording up to 3 groups
Enables to record 99 messages into each group.
- Automatic Power Off
The unit will be automatically turned off when not in use.
- Indication of the remaining recording time
You can check the available remaining recording time.
- Adjustable repeating time
Enables to repeatedly listen to the part you want by adjusting the time.
- Monitoring of recording
Available to listen to the message by using the stereo earphone during the recording .
- External jack for Input/Output
Enables to record between the unit and other equipments.
- Indication of the recording/playback level
Enables to check the level when recording/playback.
- VOS recording
Available only when any voice and sound exist.
- Scan Function
Enables to playback just the fore part of each message.
- Pause Function
Enables to pause during recording.
- USB PC Interface
Lets you use the recorder with a PC with fast USB port for voice & data file.
- MP3 File Playback
It can be used to play and store digital music file

Locations of Function and Control Buttons



LCD Description



Battery Installation

Be sure to replace batteries at stop mode.

1. Open the battery cover.

Press and slide the battery cover off.

2. Install two(2) AAA size batteries and slide the cover back into place.

* Battery should be LR03 or equivalent(AAA Size or UM-4)

3. Press PLAY/STOP(▶/■) button or REC/STOP button to check the battery condition.



FULL



NORMAL



WEAK



EXHAUSTED

* Recorded messages will not be erased when replacing batteries.

Battery Lifetime

Voice	Recording Mode	About 10 Hours
	Speaker playback	About 8 Hours(VOL: 10)
	Earphone playback	About 9 Hours(VOL: 10)
MP3	Earphone playback	About 7 Hours(VOL: 10)

1. Power On & Off

- Set the HOLD switch to "Off" mode and press the REC/STOP button for about one second.
Then, LCD is displayed, which means power on.
- Automatic power off : the unit will be automatically turned off within one minute when not in use without pressing any button.

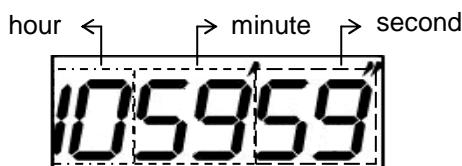
2. Recording

- Release the HOLD switch and press the REC/STOP button for recording.

- The unit starts recording when the red LED lights ON.

(The unit displays the recording number, level and time on the LCD.)

** Recording Time Indication on the LCD



- To stop recording, press the REC/STOP button again.

1) Pause function

- Press the MODE/PAUSE button during recording.
- The "PAUSE" letter blinks in LCD display, which means pause function is operated.
- To release the pause function, press the MODE/PAUSE button one more time.

2) To record on the following number during recording

- During recording, move the ▶▶ button upwards and then, you can continue to record on the following number.

3) Indication of the remaining recording time

- If you press the FOLD/REPEAT button during recording, the LCD indicates the remaining time.

4) Monitoring of recording

- You can listen to the recorded messages by connecting earphone to EAR jack during recording.
(During monitoring, the volume level can not be controlled.)

5) Using an external pin microphone (Optional)

- Record after connecting an external microphone to MIC jack located on the left side of unit.

3. Playback

- Release the HOLD button and select your desired message number by moving upwards(▶▶) or downwards(◀◀) the button located on the top/side of unit.
- If you press the ▶/■ button to vertical direction, the LED lights in Green color to playback the recorded message.
- During playback, you can stop the unit by pressing the ▶/■ button to vertical direction one more time.

(Resume Play)

If you re-play just after pressing stop button, playback will be proceeded continuously from the pre-stopped time. (If another button except for the ▶/■ button is pressed at stop mode, the fore part of the last recording message will be played.)

1) Fast-forwarding(▶▶) and rewinding(◀◀) during playback

- You can adjust the playback time by moving the ▶▶ or ▶◀ button upwards or downwards long enough during playback.
- If you wheel the ▶▶ or ▶◀ button shortly, you can hear the following recorded message or previous recorded message.

2) Converting message during playback

- You can adjust by wheeling the button (◀◀/▶▶) upward or downward.

3) Scanning

- At stop mode, press the ▶/■ button for more than 2 seconds.
- Then, "SCAN" will be displayed and the unit will playback each message for about 5 seconds in sequence from the first message to the last message.
- After playback of all messages in one folder, the unit stops to playback and if you press the ▶/■ button, the unit stops operation.

4) Repeating the section playback

- During playback, press the FOLD/REPEAT button which means the repeat function is being started. Then, if press the FOLD/REPEAT button again after a certain time, the repeat function is completed Which means the repeating time is set-up and the unit will continue to repeat in the selected section.

5) Indication of the remaining playback time

- If you press the FOLD/REPEAT button one time during playback, the LCD indicates the remaining time.

4. Erasing

- 1) Erasing one message
 - Select the recorded number you want to erase.
 - Press the ERASE button.
 - The number of recorded message will blink and the recorded message is heard for 3 seconds.
 - Press the ERASE button again.
 - To cancel the erasing, press any button except for the ERASE button.
- 2) Erasing all recorded messages in one folder
 - Select the folder which you want to erase at stop mode.
 - Press the ERASE button for about 5 seconds.
(At that time, and the related folder icon will blink.)
 - Press the ERASE button again for about a second and then, all recorded messages are erased.
 - To cancel the erasing, press any button except for the ERASE button.

5. Adjusting Volume

- You can adjust Volume level by pressing VOLUME + / - button.
(But the volume will not be adjusted during recording.)

6. Hold Function

- If the HOLD switch is set upwards, any button is not operated.
- If the HOLD switch is set upwards, the key icon is displayed on LCD, which means Hold function is set.
- To release the hold function, move the HOLD switch downwards.

When you set the HOLD switch at stop mode, the recorder will be automatically turn off.

7. Setting the VOS mode

- Press the MODE/PAUSE button 1 time and then, LCD displays "VOS" letter.
- At that time, select "on" mode by the Volume button and press the FOLD/REPEAT button.
- When there is no voice or no sound during recording after the "VOS" setting, the LCD displays "SENSE" letter and the unit stop recording. With voice voice or sound heard, the "SENSE" letter disappear and start recording again.

8. Setting Mic sensitivity

- Press the MODE/PAUSE button 2 times and then, LCD displays "REP" letter.
- At that time, select "HI" or "LO" mode by the Volume button and press the FOLD/REPEAT button.
- After finishing the selection, the LCD displays the selected "HI" or "LO".

9. Repeating the Playback

- Press the MODE/PAUSE button 3 times and then, LCD displays “REP” letter.
- At that time, select one of the “OFF”, “FOLD” or “ALL” by the Volume button and press the FOLD/REPEAT button.
 - . In order to repeat the recorded massages in one folder, please select “FOLD”.
 - . If you select “ALL”, all the messages for A/B/C folders can be repeated.
 - . If you don’t want any repeat, please select “OFF”.

10. Setting Beep On/Off Function

- Press the MODE/PAUSE button 4 times and then, LCD displays “BEEP” letter.
- At that time, select “ON” or “OFF” mode by the Volume button and press the FOLD/REPEAT button.
- If you set the mode to be “ON”, you can hear the beep sound whenever you press the buttons.

11. Setting Preengaged Recording

- Press the MODE/PAUSE button 5 times and then, LCD displays “P-REC” letter.
- At that time, select your desired time by the Volume button and press the FOLD/REPEAT button.
Then, press FOLD/REPEAT button one more time at “On” mode.
(You can set up your desired preengaging time up to max. 255 minutes.)
- After your setting the time, the unit is automatically turned on the time which you set up and the recording is started.

12. Setting Alarm Function

- Press the MODE/PAUSE button 6 times and then, LCD displays “ALARM” letter.
- At that time, select “ON” or “OFF” mode by the Volume button and press the FOLD/REPEAT button.
Then, press FOLD/REPEAT button one more time at “On” mode.
(You can set up your desired alarm time up to max. 255 minutes.)
- After your setting the time, the unit is automatically turned on the time which you set up and you can hear the alarm sound.
- In order to stop the alarm sound, please press the any button.

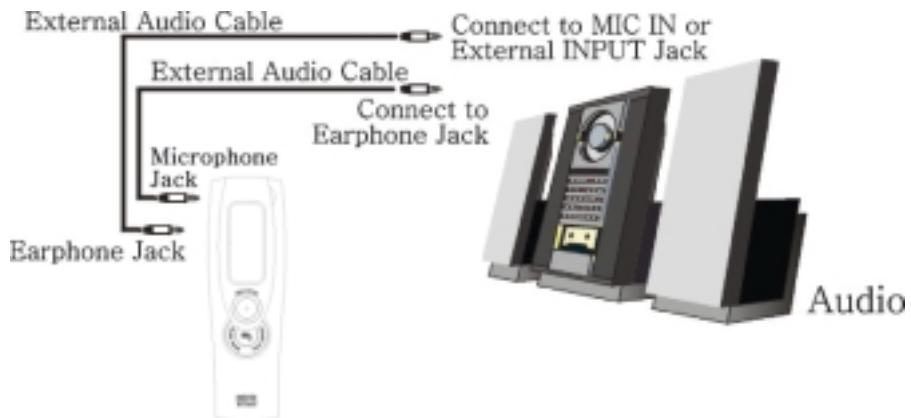
13. Connecting External Equipments (Optional)

Recording from the external equipments into the voice recorder

You can record by connecting an external cable between the MIC jack of the voice recorder and the earphone jack of an external equipment.

Recording from the voice recorder into the external equipments

- Connect an external cable between the EAR JACK of the voice recorder and the MIC IN, or the external input jack of an external equipment.
- Press the PLAY button of the voice recorder and the REC button of an external equipments.
- You can adjust volume by using VOLUME button of the voice recorder.



14. USING MP3 Player

1. Getting to start MP3 Player

- You can choose the MP3 Folder by using FOLD/REPEAT button at stop mode.

2. Playing MP3 File

- Release the HOLD button and select your desired music file by moving the upward(▶▶) or downward(◀◀) button.
- If you press the ▶/■ button to vertical direction, the LED lights in Green color to playback the music.
- During playback, you can stop the playback by pressing the ▶/■ button to vertical direction one more time.

(Resume Play)

If you re-play just after pressing stop button, playback will be proceeded continuously from the pre-stopped time. (If another button except for the ▶/■ button is pressed at stop mode, the fore part of the last recording message will be played.)

3. Fast-forwarding(▶▶) and rewinding(◀◀) during playback

- You can adjust the playback time by moving the ▶▶ or ▲◀ button upward or downward long enough during playback.
- If you wheel the ▶▶ or ▲◀ button shortly, you can hear the following music or previous music.

4. Converting file during playback

- You can adjust by wheeling the button (▶▶ / ▲◀) upward or downward.

5. Scanning

- At stop mode, press the ▶/■ button for more than 2 seconds.
- Then, “SCAN” will be displayed and the unit will playback each music file for about 5 seconds in sequence from the first music file to the last music file.

6. Repeating the section playback

- During playback, press the FOLD/REPEAT button which means the repeat function is being started “”. Then, if press the FOLD/REPEAT button again after a certain section, the repeat function is completed “” which means the repeating section is set-up and the unit will repeat in the selected section.

7. Indication of the remaining playback time

- If you press the FOLD/REPEAT button 1 time during playback, the LCD indicates the remaining time.

8. Repeating the Playback

- Press the MODE/PAUSE button 2 times during playback and then, LCD displays “REP” letter.
- At that time, select one of the “OFF” or “FOLD” or “ALL” by the Volume button and press the MODE/PAUSE button.
 - . In order to repeat all the MP3 files , please select “FOLD” or “ALL”.
 - . If you don't want any repeat, please select “OFF”.

9. Setting the EQ(Equalizer) mode

- If you press the FOLD/REPEAT button 3 times during playback, the LCD displays “Eq” and select one of the “POP” - “JAZZ” - “ROCK” - “CLAS(SIC)” by the Volume button and press the MODE/PAUSE button.

Installation of Manager Program

System Requirement

Computer : Pentium or IBM compatible system with USB support

Memory : 64MB or higher

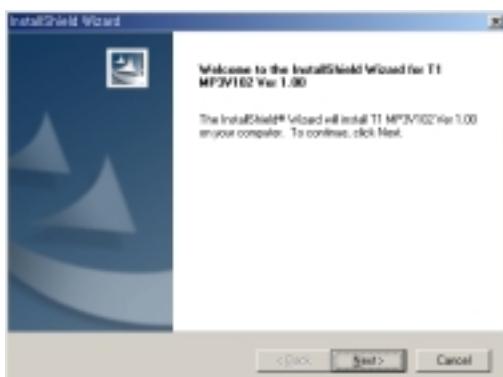
OS : Windows 98/ME/2000/XP

Hard Disk : At least 100 MB free disk space

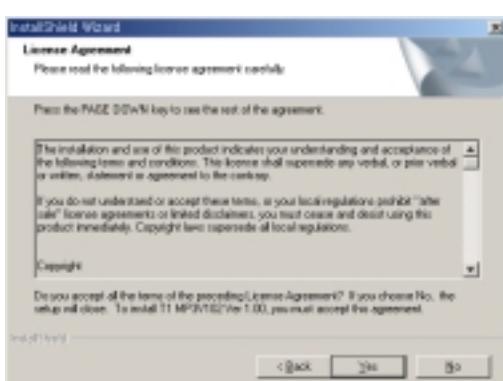
Playback : Soundcard, Speaker

Recording : Sound Card, Microphone

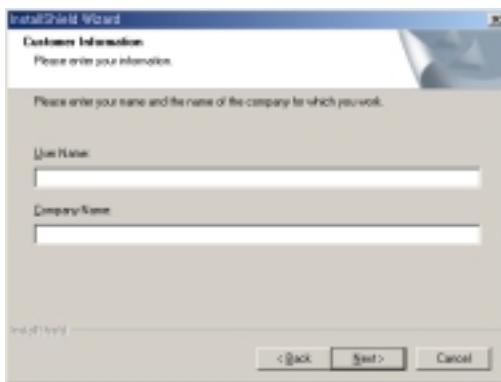
- Insert the Manager program CD into CD-ROM drive.
- Program SETUP will be started as follows.



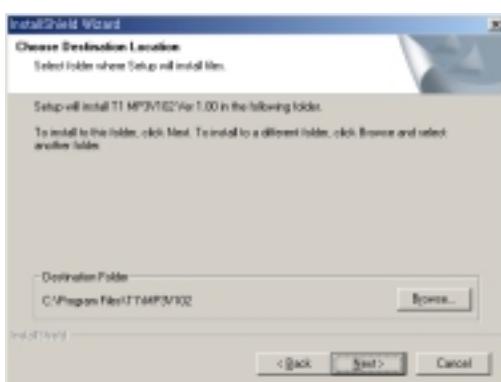
- Click "Next".



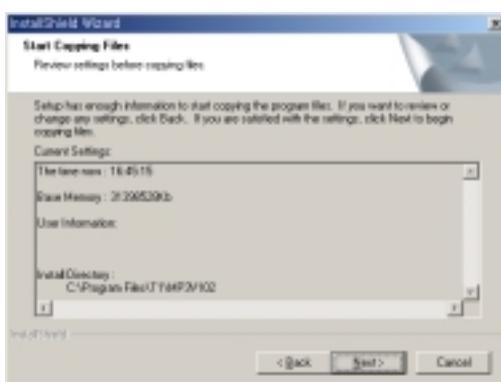
- Click "Yes".



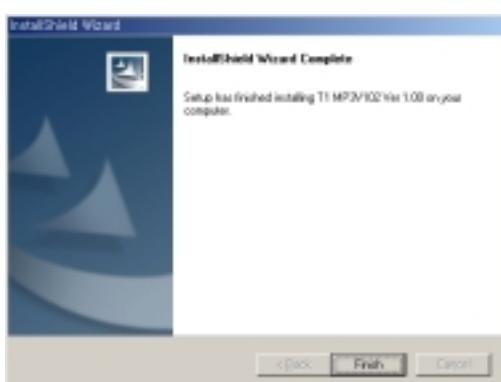
- Fill the blanks and click “Next”.



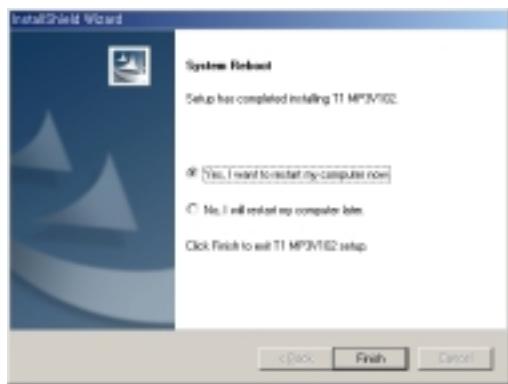
- Choose your Destination Location and click “Next”.



- Click “Next” on Start Copying Files Window.



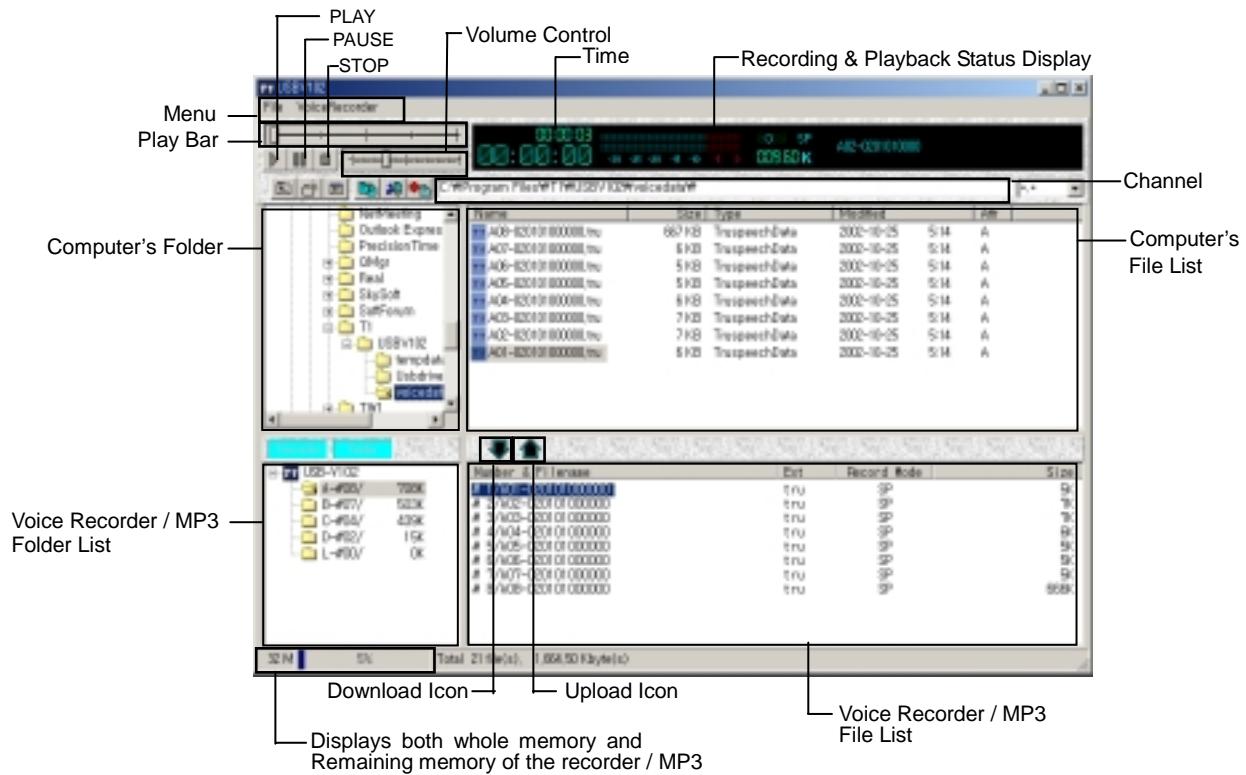
- Click “Finish” on InstallShield Wizard Complete Window.



- Click "Yes, I want to restart my computer now" on reboot windows
- Click "Finish" then, Driver installation is completed.

Using Manager Program

1. Composition



2. Connect Voice recorder and PC with USB cable.

- * When you connect Voice Recorder unit and the PC by USB Cable, you can use the following two(2) methods.
 - 1) Either you can connect the USB cable to the PC without the batteries installed in the Voice Recorder unit,
 - 2) or you can connect the USB cable to the PC with the batteries installed in the Voice Recorder unit. (But in this case, you should press the “REC/STOP” button after connecting the USB cable to the PC.)

3. To Upload files

- Select a folder of the Voice Recorder Folder List.
- Select a file (Voice file or Data file) of the Voice Recorder File List.
- Click the Upload Icon.
- The selected file is copied to your computer.

* You can't upload MP3 files to PC.

4. To Download files

- Select a folder of the computer folder list.
- Select a file (voice, data or MP3 file) of your computer file list.
(If you play the data file in the voice recorder, LCD displays “FILE”)
- Click the Download Icon.
- The selected file is copied to the Voice Recorder.
* If you download MP3 files, they are copied in the MP3 folder.

5. To play the uploaded files

- Click Play Icon, the concerned file will be played.
- You can adjust Volume by dragging Volume Control to left or right side.
- If you click and drag Play bar, the concerned file will be played from the part where icon is located.

* You can click the right button of your mouse to stop and pause

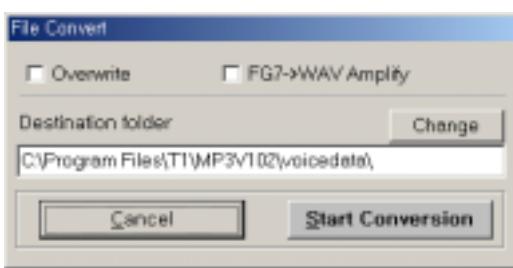
6. File Movement

- If you drag one file after clicking, you can move the file to the other folders.

7. Voice E.mailing

You can email the recorded file saved in FG7 file to receiver by converting to WAV file as per the following procedures and the receiver can hear the file through WAV file player.

- Select the file you want in PC file list.
- If you select “Convert” after clicking “File” of menu, the “File Convert” is displayed as per the following window.



- Select the folder you want after clicking “Change”, if you’d like to save the WAV file in other folder. (Otherwise you select a certain folder, it is saved in the current folder “C:\Program Files\T1\MP3V102\voicedata”)
- If you click “Start Conversion”, the file saved in FG7 file is converted to WAV file.
- You can email “C:\Program Files\T1\MP3V102\voicedata” or the WAV file saved in the designated folder to receiver as the attached file.

* “Overwrite” is used for overwriting the converted file to WAV file newly.

Troubleshooting

Check following items first if you find any functional matter.

In case of no LCD display	Did you check the battery capacity? ⇒ Replace batteries. Are both polarities of the battery loading in right way? ⇒ Load batteries in each correct + / - position.
In case of no recording	Isn't it at Hold position? ⇒ Set Hold switch off. Isn't the message number or message FULL? ⇒ Erase unnecessary message. Did you check the battery capacity? ⇒ Replace batteries.
In case of no Playback	Isn't it at Hold position? ⇒ Set Hold switch off. Isn't there any recorded message? ⇒ Check the recorded message. Did you check the battery capacity? ⇒ Replace batteries.
In case of no sound from speaker	Isn't your VOLUME at 0(Zero) position? ⇒ Adjust the VOLUME level. Isn't your Earphone inserted in? ⇒ Take the Earphone Jack OFF.
In case of no sound from Earphone	Isn't your VOLUME at 0(Zero) position? ⇒ Adjust the VOLUME level. Is your Earphone properly inserted in ? ⇒ Insert the Earphone Jack completely.

Cautions

General

- Dropping and other shock or pressure to the cabinet can cause damage.
- Pressure to the LCD may cause permanent damage to the performance of the LCD.
- Always avoid high heat from any source. Leaving the unit in direct sunlight or in a hot car (as in Summer) can damage the unit.
- Keep the unit clear from dust and contamination that cause damage.
- High humidity, dampness or liquid spills should be avoided.

Safety precautions

- Do not attempt to repair, disassemble or modify this unit.
- Do not use in aircraft during take-off or landing.

Cautions for Safety

- This unit contains a high quality speaker. Keep the unit away from credit cards since the speaker's magnetic strips on credit cards and other similar items that have magnetic strips.
- The seller holds no liability for any damage caused by accident or misuse of this product or for any claims by a third party.
- The seller holds no liability for loss of any message for any reason.

Specifications

Model	TDR-2128M
Voice Recording Time	About 37 hours
MP3	128MB
Number of Message	3 Folders × 99 messages & MP3 Folder
Frequency Range for Recording / Playback	300Mz ~ 3,500Mz
Out Power	100mW (T.H.D 10%)
Input	Audio Analog In (-60dB), 3.5φ
Output	Earphone(Mini Plug/Stereo) IMP Over 16 Ohms, 3.5φ
Speaker	23mm, 8 Ohms Dynamic Speaker
Dimension	31.4(W) × 101(H) × 18.2(D)mm
Memory Medium	Built in Flash Memory
Power Source	1.5V, AAA ALKALINE × 2
ACCESSORY	Basic : User Manual, Stereo Earphone, 2 Batteries, USB CABLE, CD for program installation
	Optional : External Pin Microphone, Audio Cable, Tel Adapter & Tel Line Cord, Hand Strap, Necklace

FCC NOTICE

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES.
OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS:
(1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND
(2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED,
INCLUDING INTERFERENCE THAT MAY CAUSE UNDERSIRED OPERATION.

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 communication. 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 turning 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 difference from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

NOTE : The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

GUARANTEE

PRODUCT	DIGITAL RECORDER	MODEL	TDR-2128M		
		SALES DATE	yy	mm	dd
CUSTOMER	ADDRESS	TEL	SINCERELY		
	NAME				
SALES AGENCY	ADDRESS	TEL	SIGN		
	AGENCY NAME				