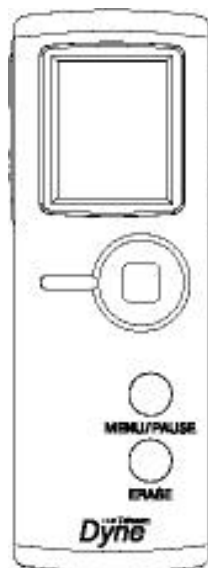


Digital Voice Recorder

User Manual



DN464 / DN4128

DYNE TELECOM CO., LTD.

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

Note : This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by 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 different 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.

Features

- Long Time Recording

Maximum 1100 minutes recording. (64MB)

- MP3 Playback

Record and playback the digital music.

- Digital Interface

Edit, store and E-mail the recorded contents through PC.

- Repeating

You can repeatedly listen to the sections as you want.

- VOR (Voice Operated Recording)

Recording only when sounds exists. So you can treat recording time sufficiently.

- Recording Sensibility

You can adjust recording sensibility according to the noise around and distance from sound source.

- Message Scanning

You can rapidly search the desired part of the message during playback.

- Time Display

Present time is shown on display.

- Alarm

You can set the alarm as you want.

- Recording the Phone Conversation

You can record important phone conversation.

◆ Precautions

Please read the following precautions before using the unit.

- Do not disassemble & assemble the unit for yourself.
- Do not drop the unit, or give it a mechanical shock. When the unit is not used, safekeeping is needed to avoid its damage.

Do not use or place the unit in hot or humid condition. Be careful that the unit is not wet. Wetting can cause a critical damage that can make it impossible to repair the unit.

- Do not use the unit in the place which is exposed to the explosive or inflammable substances.
- Do not clean the unit with the inflammable solvents like alcohol, benzine and thinner, etc.
- Avoid using the unit while driving or walking. It might cause some unexpected accidents.
- When you are not going to use the unit for a long time, remove the batteries to prevent damage from battery leakage and corrosion.
- Avoid being put near by magnetic cards such as credit cards. Otherwise the cards may no longer be used.
- Note that our company does not reimburse you for any loss from the use of the unit or any demand of indemnity from the third person.
- Be understood that our company does not take responsibility for any memory loss by the reasons of breakdown, repair, and others.
- It could be illegal to use or duplicate the recordings beyond a private purpose.

Contents

Preparing

Description of the unit

Insert battery

Connect DC adaptor

Basic Functions

Selecting Voice Recorder / MP3(Music) mode

Adjusting the Volume

How to set the Menu

1. Voice Recorder

Recording

Playback

Erasing the Message

2. MP3 Player

Playback

Erasing the MP3(Music) file

How to use the MENU

How to set the menu and menu order

1. Voice Recorder

Menu of the Voice Recorder

2. MP3 Player

Menu of the MP3 Player

Connecting to the External Device

Connecting to the External Microphone

Connecting to the telephone

Connecting to the Audio system

Connecting to PC

Others

Troubleshooting

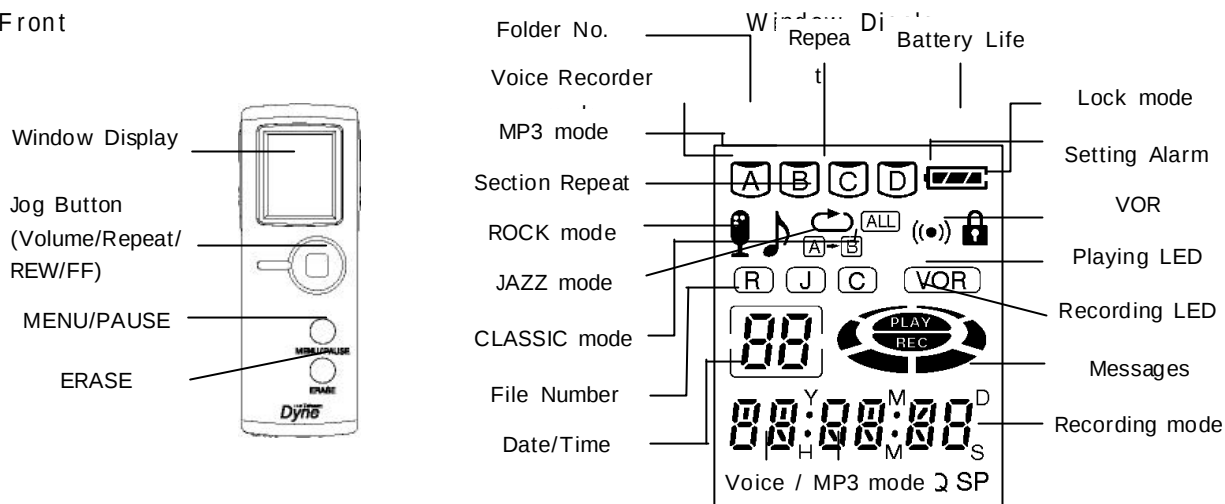
Specification

Warranty

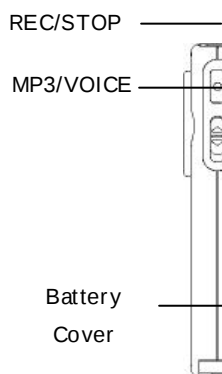
Preparing

Description of the Unit

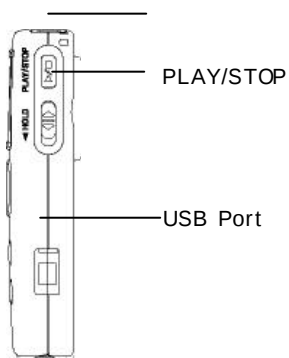
Front



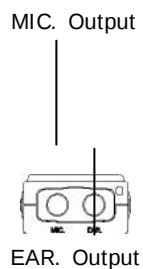
Left



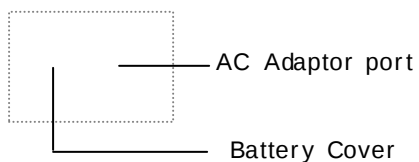
Right



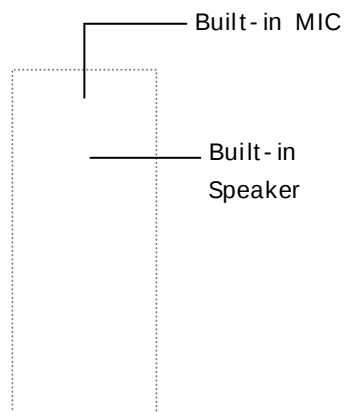
Top



Bottom



Rear



Accessories:

Battery (AAAx1EA), Earphone, External MIC, Hand Strap, USB Cable, Audio Cable, Telephone Adaptor, Telephone Cable, CD-ROM, User's Manual.

Insert Battery

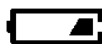
1. Open the battery cover.
 - Pushing cover, and slide it off as following arrow direction.
2. Insert the battery noting the correct polarity and close the cover.
 - The current time is shown. To set the current time, refer to page __.
3. Checking the battery condition



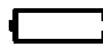
full



normal



weak



exhausted

Connect DC Adaptor

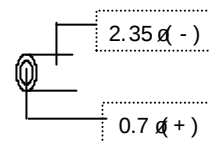
You can use this unit without batteries by DC adaptor.

Specification of DC Adaptor

You have to purchase the DC adaptor suitable for following requirements, and then connect it.

If a adaptor is not suitable for following requirements, it may cause a fatal defect.

- External diameter : 2.35 ϕ
- Internal diameter : 0.7 ϕ
- Regular output : Voltage - 4.5 ~ 5V, Current - 300mA and over.



♣ NOTE

Please use it after checking the polarity of DC adaptor because it may cause the trouble of the unit if the polarity is changed.

Basic Functions

◆ Selecting Voice Recorder / MP3(Music) Mode

You can record the messages at the Voice Recorder mode and listen to the digital music at the MP3 mode with this unit. First select the mode you want.

To select the Voice Recorder Mode

Slide the MP3/VOICE switch to VOICE mode.

- The recording folder, message No. and time are displayed.
Voice recording and playing the message are available .

To select the MP3(Music) mode

Slide the MP3/VOICE switch to MP3 mode.

- MP3 file No. and playing time are shown. You can listen to the music.

♣ NOTE

If you do not press any button over a minute, this unit will be automatically off and show present time. We call it "stand-by" mode.

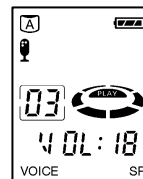
◆ Adjusting the Volume

You can adjust the volume level from 0 to 30.

Increasing the volume

Press + (up-side) of Jog button.

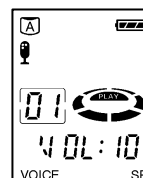
- The sound becomes louder by pressing the button.



Decreasing the volume

Press - (down-side) of Jog button.

- The sound becomes smaller by pressing the button



♣ NOTE

.You cannot adjust the volume at stand-by mode.

To escape from stand-by mode, press MENU/PAUSE button.

Listening to the Music/Message through earphone

You can listen to the Music and Messages more clearly with the earphone.

Connect the earphone to output Ear. jack.

- You can listen to the music through earphone.

◆ Setting the Holding Function

Slide the Hold button to down side.

- All buttons are not operated.

1 Voice Recorder

◆ Recording

1. Select the file to record message at File mode in Menu.

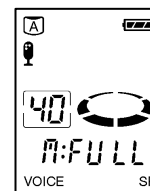
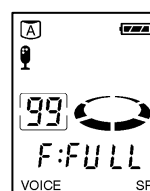
- Each time you press + , of Jog button, each 4 file indicator A → B → C → D comes on in order.

1. Move MIC toward the sound source and then push REC/STOP button. Recording is started.

- The red lamp turns on and recording is started
The recording number and time are displayed.

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

- The lamp turns off and recorded contents are saved.



♣ NOTE

- In the case that memory is full or the number of message in a file is over, then 'FULL' is shown on LCD and you cannot record any more.

Please erase unnecessary messages to record.

◆ Playback

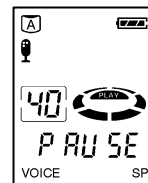
1. Press ◀◀ or ▶▶ of jog button, and select recording No. to play.
2. Press PLAY/STOP button.
 - Playing time is displayed and playing is started.
3. To stop playing, press PLAY/STOP button again.

◆ To pause Recording / Playback

- To pause recording or playing, press MENU/PAUSE button during recording or playback.

To restart recording press MENU/PAUSE again.

- After 10 minutes at 'Pause' status, recording stops automatically.

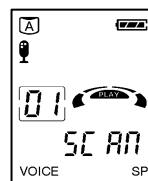


◆ To monitor during recording

- Connect earphone to the unit, you can monitor the contents during recording.

◆ To add Index

- Press ▶▶ of jog button during recording, the new recording No. is made and the message is recorded in new file.



◆ Scan Playback

- Keep pressing PLAY/STOP button at least 3 seconds.

- The first part of each message in the current file will be scanned for 5 seconds.

◆ REW and FF during playback

- If you press ◀◀ or ▶▶ of jog button during playback, it plays as jumping forward or backward fast.

◆ Section Repeating

1. Press the center of jog button at the start of the section you want to repeat during playing.

- **A** - is shown.

2. Press the center of jog button again at the end of the section you want to repeat.

- **B** is shown, then it repeats playback from **A** to **B** (**A** - **B**).
- To cancel this function, press any button.



◆ Erasing the Message

【Erasing one recorded message】

1. Select the message to erase by pressing ◀ ◀ or ▶ ▶ of jog button.
2. Select 'On' by pressing ERASE button at least 3 seconds.
 - "dEL : On" is shown and the message No. blinks on display.
 - Each time you press + , of jog button, On → FI → AL comes on in order.
 - On(ONE) : Erasing the message
 - FI(FOLD) : Erasing all messages in one file
 - AL(ALL) : Erasing all messages
3. Press ERASE button again.
 - "Ok" display and selected message is erased.
 - When you erase one message, the number of messages are arranged automatically.

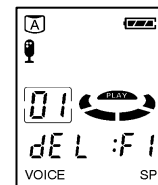


Caution

Once erased messages never be restored. Check before erasing.

【Erasing all messages in a file】

1. Select the folder to erase by pressing + , of jog button at FILE mode in MENU.
 - Each time you press jog button, file indicator A → B → C → D comes on in order.
2. Press ERASE button, and select F1 by pressing + , of jog button.
 - dEL : FI 'is shown and message No. blinks on display.
 - Each time you press + , of jog button, On → FI → AL comes on in order.
 - On(ONE) : Erasing the message
 - FI(FOLD) : Erasing all messages in one file
 - AL(ALL) : Erasing all messages
3. Press ERASE button again.
 - "Ok" display and all messages in the selected folder will be erased.

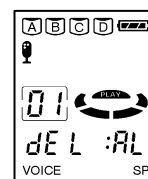


Caution

Once erased messages never be restored. Check before erasing.

【Erase all messages in the unit】

1. Press ERASE button at least 2 seconds, and select 'AL' by pressing + , of jog button.
 - dEL : AL 'is shown and 'A, B, C, D' blinks.
 - Each time you press + , of jog button, On → FI → AL comes on in turn.
 - On(ONE) : Erasing one message
 - FI(FOLD) : Erasing all messages in one file
 - AL(ALL) : Erasing all messages
2. Press ERASE button again.
 - "Ok" display and all recorded messages will be erased.



Caution

Once erased messages never be restored. Check before erasing.

2 MP3 Player

◆ Playback

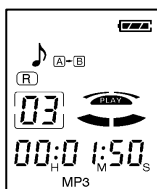
1. Select the MP3 file number pressing ◀ ◀ or ▶ ▶ of jog button.
2. Press PLAY/STOP button.
 - Playing is started and the playing time is displayed.
3. To stop playing, press PLAY/STOP button again.

◆ Section Repeat

1. Press the center of jog button at the start of the section you want to repeat during playing.
 - **A** - is shown.
2. Press the center of jog button again at the end of the section you want to repeat.
 - **A** - **B** is shown, then it repeats playback from **A** to **B** (**A** - **B**).
 - To cancel this function, press any button.



Start of the section



End of the section

◆ To play the desired section in MP3 (Music) file

- Press ◀ ◀ or ▶ ▶ of jog button during playing.
 - The message is played at the moment you release the button.

◆ Scan Playback

- Keep pressing PLAY/STOP button at least 3 seconds.
 - The first part of each message in the current file will be scanned for 5 seconds.

◆ To pause Playback

- To pause playing, press MENU/PAUSE button during playing.
To restart recording press MENU/PAUSE again.
 - After 10 minutes at 'Pause' status, recording stops automatically.

◆ Erasing MP3 (Music) File

[Erasing one MP3 (Music) file]

1. Select the MP3 (Music) file that you would erase by controlling ◀ ◀ or ▶ ▶ of jog button.
2. Keep pressing ERASE button for at least 2 seconds to select on.
 - "dEL : On" is shown and "MP3 file" blinks.
 - Each time you push + , of jog button, On → AL comes on in turn.
 - On(ONE) : Erasing one MP3 File.

- AL(ALL) : Erasing all MP3 files.

3. Press ERASE button again.

- "Ok" is shown and selected file is erased.
- After erasing, the number of MP3 file is arranged automatically.

[To erase all MP3 files]

1. Keep pressing ERASE button at least 2 seconds and select 'AL' by controlling + , of jog button.

- "dEL : AL" is shown and "MP3" blinks.
- Each time you push + , of jog button, On → AL comes on in turn.
 - On(ONE) : Erasing the selected MP3 File.
 - AL(ALL) : Erasing all MP3 files in the unit.

2. Press ERASE button again.

- "Ok" is shown and selected all MP3 files are erased.

♣ NOTE

The erased MP3 file cannot be restored. Check before erasing.

How to use the MENU

To use the unit more efficiently, it will be very helpful if you know well how to set the menu. Basic method for setting menu is as below.

MENU	Equipment	Setting Contents	Settings
MOd (MODE)	VOICE	Record mode : SP/ HQ/ SHQ	SP
MIC	VOICE	MIC. sensitivity : LOW/ HI	Lo
LOCK	VOICE	Prevent messages harmed : ON/ OFF	OFF
FILE	VOICE	Select message file : A/ B/ C/ D	A
EQ	MP3	Select music genre: EQ:OFF/ ROCK/ JAZZ/ CLASSIC	EQ: OFF
BASS	MP3	Select mid-low tone : OFF/ON	OFF
REP (REPEAT)	VOICE/MP3	Setting repeat: OFF/ FI/ ALL/ CONTINUOUSLY	OFF
HEAR	VOICE/MP3	Hear. Aid facility : ON (Using EAR.)	OFF
ARM (ALARM)	VOICE/MP3	Setting alarm	OFF
dATE (DATE)	VOICE/MP3	Setting time and date	02, 01. 01. 12:00:00

1. Keep pressing MENU/PAUSE button at least 3 seconds at stand-by mode or during playing.

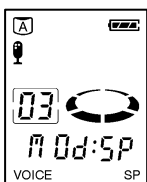
- Menu setting mode is shown.

- Each time you press MENU/PAUSE button, the 'Menu' will be changed as bellow.
- VOICE mode (stand-by mode)
 - In order of MOD → REP → VOR → MIC → LOCK → FILE → HEAR → ARM → dATE
 - VOICE mode (playback)
 - In order of REP
 - MP3 mode (stand-by mode)
 - In order of EQ → BASS → REP → HEAR → ARM → dATE
 - MP3 mode (playback)
 - In order of REP → EQ → BASS
- To revere the Menu, press ◀ ▶ of jog button.
2. Select the desired menu by pressing MENU/PAUSE button.
 3. Select the desired function by pressing + , of jog button.
 - Each time you push + , of jog button, the function is changed.
 4. To finish, press PLAY, ERASE or REC button.
 - It will be run as you select.

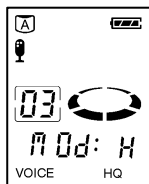
Voice Recorder

Changing Recording Mode

1. Select MOD mode in menu.
 - 'MOD : SP' is shown.
2. Select MOD by pressing + , of jog button.
 - Each time you press the jog button, SP → H → SH comes on in order.
3. After selecting MOD, push PLAY, ERASE or REC button.



SP mode



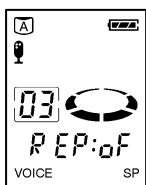
HQ mode



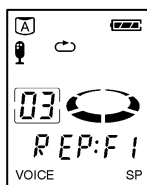
SHQ mode

Repeating the Playback

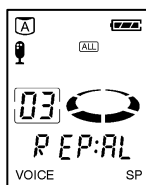
1. Select REP mode in menu.
 - REP: oF is shown.
2. Select repeat function by pressing + , of jog button.
 - Each time you press the jog button, oF → FI → AL → Co comes on in order.
3. Press PLAY, ERASE, REC button after setting up.



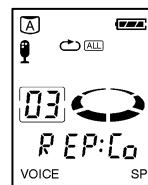
Repeat Playback Mode
(Not repeat yet)



Repeat one
Message



Repeat all messages
in current folder one time



Repeat all messages
in current folder

continuously

◆ Setting the VOR Recording

VOR(Voice Operating Record) function is that the unit records only when the sound exists.

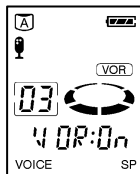
1. Select VOR mode in menu.

- 'VOR: oF' is shown.

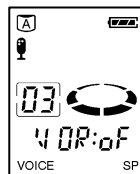
2. Select ON or OF by pressing + , of jog button.

- Each time you press the jog button, oF → On comes on in order.

3. After selecting, push PLAY, ERASE or REC button.



VOR ON



VOR OFF

◆ Adjusting the Recording Sensitivity

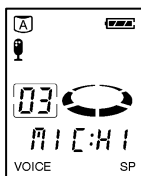
1. Select MIC mode in menu.

- 'MIC Hi' is shown.

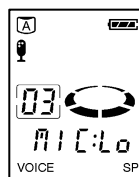
2. Select recording sensitivity by controlling + , of jog button.

- Each time you press the jog button, Hi → Lo comes on in order.

3. After selecting, press PLAY, ERASE or REC button.



MIC HI(High Sensitivity)
Sound source is far or
there is little noise.



MIC LO(Standard Sensitivity)
Sound source is near or
there is much noise.

◆ Setting the Lock Function

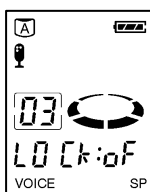
1. Select LOCK mode in menu.

- LOCK oF 'is shown.

2. Press + , of jog button to select ON or OF.

- Each time you press the jog button, oF → On comes on in order.

3. To finish, press PLAY, ERASE or REC button.



LOCK OFF



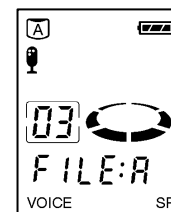
LOCK ON

♣ NOTE

The locked messages is NOT erased.

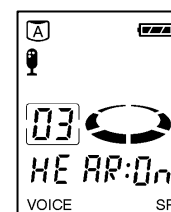
◆ Setting the FILE

1. Select FILE mode in menu.
 - FILE: A 'is shown.
2. Press + , of jog button to select the FILE to record.
 - Each time you press the jog button, A → B → C → D comes on in order.
3. To finish, press PLAY, ERASE or REC button.



◆ Setting the Hear Aid Function

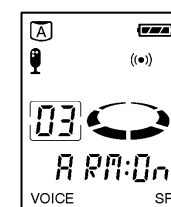
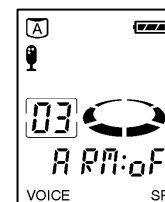
1. Connect the earphone to the earphone terminal.
2. Select HEAR mode in menu.
 - HEAR: On 'is shown and this function works.
 - Adjust the volume by pressing + , of jog button.
 - HEAR: oF 'will be shown if unplug the earphone from the unit.
3. To finish this function, press PLAY, ERASE or REC button.



◆ Setting Alarm

1. Select the ARM mode in menu.
 - 'ARM: oF' is shown.
2. Select Alarm ON or OF by pressing + , of jog button to.
 - Each time you press the jog button, oF → On comes on in order.
3. Setting 'hour' and 'minute' by pressing ▸ ▸ of jog button at ARM ON mode.
 - 'Hour' blinks and then 'minute' blinks when you press ▸ ▸ of jog button after time setting.

At the same way, set the 'minute'.
4. After setting, press PLAY, ERASE or REC button.

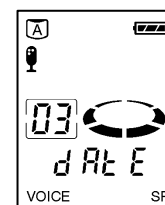


♣ NOTE

To finish the ARM setting, change Alarm On → oF at ARM mode.

◆ Setting the current time

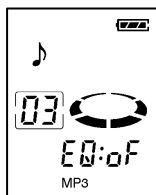
1. Select DATA mode in menu.
 - 'dAtE' is shown, and year blinks.
2. Set year, month, date & hour, minute, second by controlling jog button.
 - + , of jog button : Changing set contents
 - ◀ ◀ or ▶ ▶ of jog button : Shifting to left or right.
3. To finish, press PLAY, ERASE or REC button.



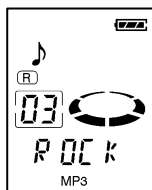
2 MP3 Player

◆ Selecting the Sound Mode

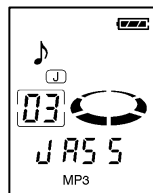
1. Select EQ mode in menu.
 - "EQ: oF" or "ROCK, JAZZ, CLASS1" is shown.
2. Select the desired sound mode by controlling + . of jog button.
 - Each time you press the jog button, oF → ROCK → JAZZ → CLASS1 comes on in order.
3. After setting, press PLAY, ERASE or REC button.



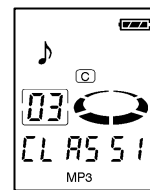
EQ OF (Standard Mode)



ROCK (Rock Mode)



JAZZ (Jazz Mode)



CLASS (Classic Mode)

◆ Setting the Bass Mode

1. Select BASS mode in menu.
 - "BASS: oF" is shown.
2. Select the desired sound mode by controlling + , of jog button.
3. After setting, press PLAY, ERASE or REC button.



Bass Mode ON



Bass Mode OFF

◆ Repeating the Playback

Setting method is same as the Voice Recorder.

◆ Setting the Hear Aid Function

Setting method is same as the Voice Recorder.

◆ Setting Alarm

Setting method is same as the Voice Recorder.

◆ Setting the current time

Setting method is same as the Voice Recorder.

Connecting to the External Device

◆ Connecting to the External Microphone

You can easily record the message by using the external microphone.

1. Connect the external microphone to the MIC terminal of the voice recorder.
2. Press REC/STOP button.
 - It starts recording.
3. To stop the recording, press REC/STOP button again.

◆ Connecting to the Telephone

You can record telephone conversation.

1. Connect the Voice Recorder to the telephone using telephone adaptor.
2. Press REC/STOP button during conversation.
 - The conversation will be recorded.
3. To stop recording, press REC/STOP button again.

♣ NOTE

However, you cannot record the conversation through the digital telephone.

◆ Connecting to Audio System

To record the contents of the Audio in the Voice Recorder

1. Connect the Voice Recorder to the audio system.
2. Press REC/STOP button of the Voice Recorder and the playing button of audio at the same time.
3. To stop recording, press REC/STOP button again.

To record the contents of Voice Recorder into Audio

1. Connect the Voice Recorder to the audio system.
2. Select the message which you would record into audio.
 - Refer to No. 1 of Playback.
3. Press PLAY/STOP button of the Voice Recorder and the recording button of audio at the same time.
4. To stop recording, press PLAY/STOP button of the Voice Recorder and stop button of Audio at the same time.

◆ Connecting to PC

- You can copy the message in the Voice Recorder to PC. Also, you can play and edit the sound files on PC.
- Refer to 'Help' of the 'Express Media Player' for the details.

System Requirements:

- Computer: Pentium or higher, IBM compatible, USB port support
- Memory: Above 64M
- Operating System: Windows 98 / Me / 2000 / XP
- Hard Disk: 100M or bigger empty space
- For playing: Sound Card, Speaker
- For recording: Sound Card, Microphone

❖ Connecting to PC(cont.)

To manage the recorded messages with 'Express Manager', connect the Voice Recorder to PC with USB cable.

♣ NOTE

Before connect the USB Cable, set the 'Express Manager' in PC first.

- Express Manager Installation
- Express Media Player Installation
- Express Manager User Manual
- Express Media Player User Manual

Others

❖ Troubleshooting

Check for the following points first if any problem happens.

LCD window does not work.	Isn't the battery exhausted? → Replace with new battery. Is the battery installed correctly? → Insert the battery with the correct polarity.
Recording does not work	Isn't the Hold switch set? → Release the Hold switch. Is there no space for recording? → Erase the unnecessary messages. Isn't the battery exhausted? → Replace with new battery.
Playing does not work	Isn't the Hold switch set? → Release the Hold switch. Is there any messages recorded? → Check for the message number. Isn't the battery exhausted? → Replace with new battery.
No sound output from the speaker	Isn't the volume is set to '0'? → Adjust the volume. Is the earphone plugged in the unit? → Unplug the earphone.
No sound output from the earphone	Isn't the volume is set to '0'? → Adjust the volume. Isn't the earphone unplugged in the unit? → Plug the earphone.

◆ Specifications

Model	DN - 432	DN - 464	DN - 4128
Built-in Flash Memory	32MB	64MB	128MB
Recording Time(SP/HQ/SHQ)	265Min/130Min/65Min	550Min/265Min/135Min	1100Min/530Min/265Min
Max. number of recording	396 Messages (4 folders)		
Dimensions (L x W x D)	78 x 28 x 14mm		
Weight	33g (excluding battery)		
Power Requirements	DC 1.5V (AAA battery 1EA)		
Battery Life	Recording: about 5 hours, MP3 playing : about 6 hours (Earphone, Volume 20)		
Recording Device	Built-in Flash Memory		
Frequency Range	Voice : 300Hz 3.3KHz MP3 : 20Hz 20KHz		
Effective Max. Output	50mW (16 ohm, THD 10%)		
Input	Mono Jack(φ3.5mm) and Built-in MIC		
Output	Stereo Jack(φ3.5mm, Output: Stereo) and Built-in speaker		
Speaker	φ23mm		
Microphone	Built-in nondirectional electric capacitor Microphone (Mono)		
Operating Temperature	0 40		
Accessories	Manual, Stereo Earphone, Ext. Microphone, Audio Cable, Telephone Adaptor & Cable, USB Cable, Hand Strap, Battery, CD-ROM.		

◆ Warranty

Product	Digital Voice Recorder	Model	DN - 432/ DN - 464/ DN - 4128
Assurance period	1 Year	Sales date	yy mm dd
Customer	Address Name	Tel sincerely	
Sales agency	Address Name	Tel sign	

In occurring of trouble, please contact to sales agency.