SONY

IC Recorder

Operating Instructions

Owner's Record

The model number is located at the rear and the serial number is located inside the battery compartment. Record the serial number in the space provided below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. ICD-MX20 Serial No. ____

ICD-MX20

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For the customers in the USA

INFORMATION

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 nmunications

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

 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.

headphones are plugged in. You are cautioned that any changes or modifications not • If you plug in the headphones not securely during expressly approved in this manual could void your authority to operate this equipment.

For "Memory Stick"

operation

The OPR indicator does not light. This device complies with Part 15 of the FCC Rules. • The "LED" in the menu is set to "OFF". Display the Operation is subject to the following two conditions: (1) menu and set the "LED" to "ON". This device may not cause harmful interference, and (2) this device must accept any interference received,

the messages.

You cannot erase a message.

Stick" is set to "LOCK"

the remaining recording time.

Recording is interrupted.

Troubleshooting

The unit does not operate.

"Memory Stick" is less than 5.

unit to format the "Memory Stick"

No sound comes from the speaker.

• The volume is turned down completely

The headphones are plugged in.

• The batteries are weak.

polarity

The batteries have been inserted with incorrect

• The buttons are locked with the HOLD switch. (If you

number of folders automatically created in the

• Since the "Memory Stick" contains image data or other

files, the memory required for creating initial folders is

insufficient. Use the Windows Explorer or other tool to

delete unnecessary files or use "Format" menu of the

Sound comes from the speaker even when the

playback, the sound may come from the speaker.

Unplug the headphones and then insert them securely

selected folder. Select another folder or erase some of

• The message or the folder containing the message is

message or the folder using Windows Explorer and

remove the check for "Read-only" under "Properties"

set to "Read-only" in the computer. Display the

• The write-protect switch on the inserted "Memory

You cannot add a recording or an overwrite

recording to the previously recorded message.

The remaining memory is too short. The overwritter

• At a factory setting, "Add/Over" (additional/

and set the "Add/Over" to "Add REC" or

The advanced VOR (Voice Operated Recording)

part will be deleted after the overwriting part finishes

recording. Therefore, you can only overwrite within

overwrite recording) is set to "OFF". Display the menu

The "Memory Stick" is not recognized. The

press any button, "HOLD" will appear for 3 seconds.)

You cannot start recording. including interference that may cause undesired • The memory is full. Erase some of the messages. Or

use the Digital Voice Editor to save the IC recorder messages to the hard disk of your PC. You can also use If you have any questions about this product, you may the "Memory Stick" with sufficient capacity call: Sonv Customer Information Services Center 1-800-222-7669 or http://www.sony.com/ · The write-protect switch on the inserted "Memory Stick" is set to "LOCK" . • 999 messages have already been recorded in the

Declaration of Conformity

Trade Name: SONY Model: ICD-MX20 Sony Electronics Inc Responsible Party: Address 16450 W. Bernardo Dr, San Diego, CA 92127 USA Telephone Number: 858-942-2230 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

Notice for users

undesired operation

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Replacing the batteries

- ery indicator on the display window shows the battery condition: i T Replace both of the two batteries with new ones. "Replace Batteries" appears and the unit will stop operation. **Battery life*** (Using Sony alkaline batteries LR03 (SG))
- Recording mode: ST STLP SP LP n recording: 8 hr. 9 hr. 30 min. 9 hr. 30 min. 10 hr. 30 min. In playback: 8 hr. 9 hr. 9 hr. 9 hr.

hr.: hours/min.: minutes In continuous recording/playback * In approximate hours and minutes ^{*} When playing back through the internal speaker with the medium volume level * The battery life may shorten depending on the operation of the unit.

Using on house current

Getting started

1 Slide and open the battery

2 Insert two LR03 (size AAA)

alkaline batteries with correct

polarity, and close the lid.

lake sure to insert batteries

first time, or when you insert

batteries after the unit has been

without batteries for a certain

appears. Please refer "Step 2:

period of time, "Set Date&Time"

Setting the Clock" to set the date

into the unit from the - end first.

When you insert batteries for the

compartment lid.



Step 1: Installing the Batteries

Step 2: Setting the Clock

You need to set the clock to use the alarm function or record the date and time. When you insert batteries for the first time, or when you insert batteries after the unit has been without batteries for a certain period of time, "Set Date&Time" appears. Set the date and time as follows:

Press the control key upward, downward, leftward, or rightward ($\blacktriangle/ \bigtriangledown / \checkmark / \blacklozenge)$ to select an item, and then press down the center (>=) to decide on the item. In this manual, these operations are described as follows: Press ▲ (I◄◀). Press ► (合;). Press < (MENU). – Press ► 🔳 Press ▼ (►►I). Press ▲/▼ to select the digits for the year. Date&Time ▲: to decrease the number (**05**)y 1m 1d ▼: to increase the number 2 Press ►∎. 0:00 The month digits will flash 942F -----**3** Repeat steps 1 and 2 to set the month, day, Date&Time hour, and then minutes in sequence. To select a previous or next item 05 y 5 m 15 d Press \blacktriangleleft for the previous item or \blacktriangleright for the next 15:**SO** If you do not press > for more than one minute 000/000 the clock setting mode is cancelled and the window will return to normal display.



Recording Messages

display.



When playing back a previously recorded message, start from Step 1. When playing back a message you have just finished recording, start from Step 2-2.

Select the folder. Follow the step 2 in "Recording Messages"

Select the message and start playback.



OPR indicator** Adjust the volume with VOLUME +/-(lights in green during playback.) The display selected with the

"Display" in the menu Volume appears. **When the "LED" in the menu 2 is set to "OFF", the OPR indicator turns off

The unit plays all the messages in a folder continuously and stops at the beginning of the last message in the folder. (You change the "Play Mode" in the menu so that the unit plays a message and then stop at the beginning of the next message .)

То	Do this
stop at the current position	Press ►■ or ■STOP. To resume playback from that point, press ►■ again.
go back to the beginning of the current message	Press ▲ once.*
skip to the next message	Press ▼ once.*
go back to previous messages/skip to succeeding messages	Press ▲ or ▼ repeatedly. (During stop mode, keep the key pressed to skip the messages continuously.)

* These operations are for when "Easy Search" in the menu is set to "OFF"

Operating the Menu

During stop, playback or recording, you can use the menu to change the operation modes in playback and recording, display mode, or other settings Display the menu and change the settings as follows: То Do this Press (MENU) 1 enter the menu mode 2 select the desired menu (h/m/2/2). Press / = 0.2 and press = 1.2. 3 select the desired menu item. Press \blacktriangle/\lor and press \blacktriangleright . Press $\blacktriangle/ \blacksquare$ to select " \bigcirc " and press go back to the previous step. ▶∎. (If " \rightarrow " does not appear,



Stop/Play/Rec** Menu items Settings (*: Initial setting) ந Record/play menu You can set the recording mode (bit rate): REC Mode You can record with high-quality stereo sound. (48 kbps) ST* STLP: You can record with stereo sound for longer time. (24 kbps) You can record with better sound (monaural sound). (16 kbps) You can record for longer time (monaural sound), (8 kbps) LP: Note: When the DIRECTNL switch is set to "ON", a message will be recorded in

To record dictation or in a noisy place.

To record at meetings or in a quiet and/or spacious place.

You can activate or disable the VOR (Voice Operated Recording) function for

Recording starts when the unit detects sound and "VOR" is displayed.

The VOR function is disabled. Normal recording operation is selected.

Note: VOR function is affected by the sound around you. Set the "Mic Sense" according

to the recording conditions. If recording is not satisfactory after you have changed the

Recording pauses when no sound is heard and "VOR Pause" is displayed

monaural even in the "ST" or "STLP" recording mode.

eliminating recording from soundless period.:

You can set the microphone sensitivit

Index to Parts and Controls

Identifying the front and rear panels of the unit

Searching forward/backward

during playback (Cue/Review

• To search forward (cue): Keep ▼

release the key at the point you

• To search backward (review):

Keep \blacktriangle pressed during playback

If you keep ▼ or ▲ pressed, the unit

During cue/review, the counter will

@ When playback or fast playback

is done to the end of the last

messageWhen fast playback is done to the

End" flashes for 5 seconds, (You

"Message End" is flashing, the

messages are played back rapidly

and normal playback will start at

flashing and the OPR indicator goes

the point you release the key.

When "Message End" stops

off, the unit will stop at the

beginning of the last message

If the last message is long and you

wish to start playback at a later par

of the message, keep ▼ pressed to

play back the message to the end

and then press ▲ while "Message

· For messages other than the last

Listening in better sound

not supplied) to the Ω

disconnected.

(headphones) jack

desired point.

desired point.

quality

End" is flashing to go back to the

one, go to the beginning of the next

message and play backward to the

You can enjoy better sound quality as

• To listen from headphones: Connec

(headphones) jack. The built-in

•To listen from an external speaker

speaker (not supplied) to the \bigcirc

How the display changes in

Entering the

menu mode (1)

Selecting the

desired men

Selecting the

setting item

OK/-/-

OK/-/OK

OK/-/OK

OK/-/-

OK/OK/-

OK/OK/-

OK/OK/-

OK/OK/-

OK/-/-

OK/-/-

OK/-/-

OK/OK/-

OK/OK/-

OK/-/-

OK/-/-

OK/-/-

OK/OK/OK

OK/-/-

OK/OK/OK

4

item in the

(2, 3)

(4)

the menu mode

REC Mode ■ Mic Sense VOR

Display

🖉 Date&Time

LElapsed Time)

isplay

Elapse

Rema i n

MSG Name

l 🔳 🖸 l

🔁 Beep

speaker will be automatically

Connect an active or passive

the stereo headphones (supplied or

If you keep ▲ pressed while

end of the last message, "Message

cannot hear the playback sound.)

and release the key at the point you

pressed during playback and

wish to resume playback

wish to resume playback.

starts to search at higher speed.

be displayed, regardless of the

display mode setting.



14 HOLD switch

displayed.

🐨 Tip

Note

15 (headphones) jack

1 Built-in monaural/stereo microphone

(directional/all-directional) You can set the directivity with the DIRECTNL switch **2**, and sensitivity with the "Mic Sense" in the menu

2 DIRECTNL (directional) ON (MONO)/OFF switch Slide the switch to set the directivity of the built-in microphone **1** as follows: ON (MONO): To record a sound centering on a specific direction in monaural. Use this position when you record a sound at a conference/ meeting or in a spacious place etc. OFF: To record a sound not centering on a specific direction (all-directional recording). Notes

> • The DIRECTNL switch is set to "ON", sound is recorded in monaural even if you select ST or STLP mode • In the ST and STLP mode, sound is recorded in higher quality sound thanks to their higher bit rates even in

the monaural recording 3 Display window For the details, see "Using the display window"

The indicator lights in red during recording or in

green during playback. It flashes in red during

or flashes in red or orange. You can turn off the

 $\langle (MENU) \rangle (\square: folder) \land (\square: review) \rangle \langle (\square: fast$

indicator with the "LED" in the menu.

Press here to start and pause recording

Use the USB cable to connect a PC here

Press to divide a message during playback.

11 VOLUME (volume) +/- button

Sound is heard when no headphones or active

Insert the "Memory Stick Duo" or "Memory Stick

forward)/►■ (play/stop•enter)

6 **●IIREC (record) /PAUSE button**

Press here to stop operation

speaker are connected.

MEMORY STICK slot

PRO Duo" here.

10 USB connector

12 DIVIDE button

below.

5 Control key

7 STOP button

8 Speaker

9

4 OPR (operation) indicator

16 **(microphone)** jack (PLUG IN POWER)

To prevent accidental operation, slide this switch to

"ON". "HOLD" will appear for 3 seconds, indicating

When the HOLD function is activated during stop,

Even if the HOLD function is activated, you can stop the

alarm playback. To stop the alarm or playback, press

microphone, connect headphones supplied or not

upplied here. You can adjust the volume with

If you turn up the volume excessively or place the

headphones near the microphone while monitoring

the headphones, causing acoustic feedback (howling

recording, the microphone may pick up the sound from

VOLUME +/-11, but the recording level is fixed.

STOP. (You cannot stop usual playback.)

To monitor the recording from the built-in

all the display will be turned off after "HOLD" is

To cancel the HOLD function

Slide the HOLD switch to "OFF"

that all the functions of the buttons are locked.

You can connect an external microphone here. When an external microphone is connected, the built-in microphone is automatically cut off. recording pause. During accessing the data, it lights 17 DPC ON/OFF switch

You can play back a message at a higher or lower speed as follows: ON: "Fast Play" or "Slow □ 005/045 Play" will be displayed and a message is played 0:00:30 back at the speed specified Fast Play with the "DPC" in the menu (between twice the

normal speed (+100%) and half the normal speed (-50%)).

OFF: A message is played back at the normal speed.

18 VOICE UP (Digital Voice Up) ON/OFF switch You can make the playback sound well-balanced and more audible by enabling the Digital Voice Up function as follows: ON: Digital Voice Up function is activated. Inaudible low-level part of a recorded message is amplified so that the overall recording is adjusted to its

optimum level. OFF: A message is played back without Digital Voice Adjust the playback sound with the button. Up function.

Note Depending on the area you purchased the unit, the Digital Voice Up switch name shown on the unit may

13 A-B 🖵 (repeat) button **19** Slit for a handstrap Press to specify the beginning and ending points of the portion to be played back repeatedly.

20 Battery compartment /DC IN 3V jack Open the compartment lid and insert two LR03 (size AAA) alkaline batteries.

16

14131211109

12 Microphone sensitivity indication

spacious place.

Displays the current drive:

∎: Built-in memory drive

": "Memory Stick" drive

indicator does not appear.

15 Folder name indication

16 Messages list

with \blacktriangle/∇ .

14 Remaining battery indicator

place.

13 Drive indication

Displays the current microphone sensitivity

specified with the "Mic Sense" in the menu:

• H (High): To record at a meeting or in a quiet/

• L (Low): To record for dictation or in a noisy

Displays the remaining battery volume. When the

Displays the name of the current folder. You can

change the icon with the "Edit Folder" in the menu.

Displays the list of the three messages in the current

folder when "List View" in the menu is set to "ON".

message is displayed. You can scroll the messages

The number and recorded date/time of each

Switching the one message view and the

You can choose how the messages will be displayed on

2 Press ▲/▼ to select 🗄 (Preferences) and then

6 Press STOP to return to the normal display.

LED

Backlight

🖴 List View

OFF)

List View

OFF

ON

the stop mode between list view and one message view as

AC power adaptor (not supplied) is connected, the

You can attach a handstrap (not supplied) here.

Using the display window



Note on setting the clock Set the clock while the set is in the To display the clock setting window and current time You can display the clock setting window to set the date and time or

Mic Sense

VOR

High*

Low:

ON:

OFF*·

check the current time **1** Press **◄** (MENU) to display the ▶ REC Mode 📺 Mic Sense 省 VOR l C C

2 Press $\blacktriangle/\blacksquare$ to select \boxdot (Preferences) and then press ►■. 3 Press ▲/▼ to select "Date&Time". The current time is displayed in the

Notes on batteries

this unit.

corrosion.

memorv)

the data

stop mode.

· Do not use manganese batteries for

• When you are not going to use the

remove the batteries to prevent

damage from battery leakage and

When you insert the batteries

for the first time after

purchasing (initializing the

"ACCESS" appears in the display

window and the internal memory is

initialized automatically to create 5

folders (FOLDER01 to FOLDER05).

Notes while "ACCESS" appears

The unit is accessing data while

accessing, do not remove the

batteries or AC adaptor (not

· If the unit is required to process

excessive amount of data,

the message disappear

"ACCESS" appears in the display

window or the OPR indicator lights

or flashes in red or orange. While

supplied). Doing so may damage

"ACCESS" may be displayed for an

extended period of time. This is not

a malfunction of the unit. Wait until

unit for an extended period of time,

• Do not charge dry batteries.



l 💷 💷 **4** To set the clock, press ►**■** to display the "Date&Time" windo and follow the steps 1 through 4 of

Tip This unit does not have a power on/ off switch. The display is shown at all times.

the "Step 2: Setting the Clock"

and time If the battery compartment lid is accidentally detached, attach it as illustrated.

Organic Compound)-free vegetable oil based ink.

http://www.sony.net/



Before taking the unit for repair, check the following sections. Should any problem persist after you have made these checks, consult your nearest Sony dealer.



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Macintosh. • The supplied connecting cable is for the IC recorders ICD-MX20. You cannot connect other IC recorders.

Information

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The "Digital Voice Editor" uses software modules as shown below: Microsoft[®] DirectX[®]

©2001 Microsoft Corporation. All rights reserved. remaining time, which is the reason for the difference.

The battery life is short.

• The battery life mentioned in "Step 1: Installing the

"ACCESS" display does not disappear.

• If the unit is required to process excessive amount of Wait until the message disappears

 Take out the batteries and insert them again with correct polarity.

• Refer to the "Digital Voice Editor 2" operating instructions.

service or repair work.

function is activated. Set "VOR" in the menu to "OFF" Recording is interrupted (when recording from

an external device). If you use an audio connecting cable without a resistor to connect the sound source to the IC recorder, sound may be recorded interrupted. Make sure to use a sistance audio connecting cable. Noise is heard.

• An object, such as your finger, etc., accidentally

rubbed or scratched the unit during recording so that noise was recorded. • The unit was placed near an AC power source, a fluorescent lamp or a mobile phone during recording or playback.

• Plug of the connected microphone was dirty when recording. Clean the plug • Headphones plug is dirty. Clean the plug.

Recording level is low.

• "Mic Sense" (microphone sensitivity) is set to "Low". Display the menu and set "Mic Sense" to "High" If it is difficult to hear small sound of a recorded message, slide the VOICE UP switch to "ON". Playback sound may become more audible.

Playback speed is too fast or too slow. • The playback speed is adjusted in the "DPC" in the menu. Slide the DPC switch to "OFF" or display the

"DPC" in the menu and adjust the playback speed. "--Y--M--D" or "--:--" is displayed. You have not set the clock. Display the "Date&Time" in the menu and set the clock.

"--Y--M--D" or "--:--" is displayed as the recorded date.

• The date and time of recording will not be displayed if you recorded the message when the clock was not set. Display the "Date&Time" in the menu and set the clock

There are fewer menu items in the menu mode.

> • There are some menu items which are not displayed while the set is in recording or playback mode.

A character in a folder or message name is displayed as " \Box ".

• The unit cannot support and display some characters which are entered using the supplied "Digital Voice Editor" software.

Messages are not sorted in order of the

number of priority marks in a folder. • Unless you sort messages using the supplied "Digital Voice Editor" software, messages are displayed in the unit in the same way as specified in the computer. Sort again in the order of the number of priority marks in the computer using the supplied "Digital Voice Editor" software

The remaining time displayed in the display window is shorter than that displayed in the supplied "Digital Voice Editor" software.

• The unit requires a certain amount of memory for system operation. That amount is subtracted from the

Batteries" is based on playback through internal speaker with the medium volume level (using Sony alkaline batteries LR03(SG)). The battery life may shorten depending on the operation of the unit

data, "ACCESS" may be displayed for an extended period of time. This is not a malfunction of the unit.

The unit does not operate correctly.

You cannot connect the unit to the PC.

Please note that recorded messages may be erased during

You can record the maximum of 999 messages in each folder of the initially 5 folders (FOLDER01 to FOLDER05). In all the folders of the built-in memory, you can record the maximum of 1,012 messages. Since a newly recorded message is automatically added behind the last recorded message, you can start recording quickly without searching for the end of the last recording. e.g. Message 1 Message 2 Blank space Newly recorded message Select the recording mode. For how to select the recording mode, see "Operating the Menu". Select the folder. Press ► ([^]). The folders in the built-in memory are displayed. Icon and name* of the selected folder





③Press ►





OPR indicator** ② Speak to the built-in microphone (lights in red during recording.) * The display selected with the "Display" in the menu appears

**When the "LED" in the menu is set to "OFF", the OPR indicator turns off.

То	Do this
stop recording	Press STOP. The unit stops at the beginning of the current recording. If you do not change the folder after you stop recording, the next time you record you will
pause recording*	record in the same folder. Press O IIREC/PAUSE.
1	During recording pause, the OPR indicator flashes in red and "REC Pause" flashes in the display window.
release pause and resume recording	Press OII REC/PAUSE. Recording resumes from that point.
listen to the current recording	Press ■STOP to stop recording, then press ►■.
review the current recording instantly	Press I during recording.
review during recording	Keep pressing ▲ (I◄◄) during recording or recording pause. Recording stops and you can search backwards while listening to fast playback sound. After you release the key, playback starts from that point. You can add an overwrite recording from that point.

* About one hour after you pause recording, recording pause is automatically released and the unit goes into the stop mode.

Maximum recording time* (built-in memory)

-:--:-



recording mode /SP: Standard play monaural recording mode/LP: Long play monaural recording

The maximum number of the folders when each folder contains one message You can create the maximum of 340 folders each in the built-in memory

and the "Memory Stick". Notes before recording • To record in better sound quality, select the ST or STLP mode. • Before making a long recording, be sure to check the battery indicator • The maximum recording time and the number of messages you can make varies depending on the

conditions of use. • To avoid replacing batteries during long time recording, use the AC power adaptor (not supplied). • You cannot record through the built-in microphone if you connect

an external microphone to the \checkmark (microphone) connector.

Expanding the memory You can expand the memory by

inserting a "Memory Stick Duo" or "Memory Stick PRO Duo" into the MEMORY STICK slot. (See the reverse side.)

Switching the drives You can use both the built-in memor and the "Memory Stick" by switching drives as follows **1** Press \blacktriangleright (\bigcirc) to display the folders in the cu 2 Press ◀. **3** Press \blacktriangle or \blacktriangledown to select the "Memory



FOLDERO

"Memory Stick" drive ((*) 4 Press ►■. The folders of the selected drive are

displayed, where you can select one by pressing \blacktriangle or \blacktriangledown . (If you keep pressing \blacktriangle or \blacktriangledown , the display switches to the folders of

another drive.) Starting recording automatically in response to

the sound — Advanced VOR function Set "VOR" in the menu to "ON"

Notes on recording

• While the OPR indicator flashes or lights in red or orange, do not remove the batteries or the AC adaptor (not supplied). Doing so nay damage the data. · Noise may be recorded if an object, such as your finger, etc., accidentally rubs or scratches the unit during recording.

microphone sensitivity, or for important recording, set the "VOR" to "OFF" Add/Over You can enable or disable the adding or overwrite recording mode: OFF*: You cannot add a recording to avoid erasing a message by accidental operation. Add REC: You can adds a recording to a previously recorded message during playback. Overwrite: You can adds an overwrite recording to a previously recorded message during playback. DPC You can set the playback speed: Messages will be played back at normal speed. OFF*: ON: You can adjust the speed of the playback between twice the normal speed (+100%) and half the normal speed (-50%) You can activate or disable the easy search function Easy Search You can go back for approx. 3 seconds by pressing \blacktriangle (I \triangleleft), or advance for approx. 10 seconds by pressing \blacktriangledown (I \triangleright). ON: You can go back or forward the messages by pressing $\blacktriangle/ \forall (\bowtie / \triangleright)$ OFF*: You can set the playback mode when you press Plav Mode Cont Play*: The unit plays back all messages in a folder continuou One MSG: The unit plays back one message and then stops at the beginning of the next The unit plays back a message repeatedly until you press ►■ or ■STOP. Repeat: "Repeat MSG" and " " will be displayed. 📺 Erase menu Erase a MSG You can erase the currently selected message. (See the reverse side. Erase AllMSG You can erase all the messages in the selected folder (See the reverse side.) Erase Folder You can erase the selected folder and the messages contained in the folder. (See the reverse side.) Format You can format a "Memory Stick". (See the reverse side.) 🖉 Edit menu You can add priority marks (A) to the currently selected message Priority Usually the recorded messages are lined up in the order of recording. (None $*/ \blacktriangle / \blacktriangle \bigstar / \blacktriangle \bigstar$) (See the reverse side.) Move MSG You can move the currently selected message to the desired folder. (See the reverse side.) Alarm You can set the alarm to the currently selected message. (See the reverse side.) Add Folder You can add a new folder to the end of the current drive. (See the reverse side.) You can change the icon and name of the currently selected folder. Edit Folder (See the reverse side.) 🔁 Preferences menu You can change the display mode on the display window Display Displays the elapsed playback/recording time of one message (counter). Elapse: Displays the remaining time indication Remain Displays the message name (title) if it is specified with the supplied Digital Name Voice Editor software. Date&Time You can set the clock manually or automatically: Automatic: If the unit is connected to a PC while the supplied Digital Voice Editor is operating, the clock is automatically set according to the PC internal clock. Manual*: Displays the window to set the clock manually (05Y1M1D*). (See "Step 2: Setting the Clock".) You can turn on or off the beep. Beep A beep will sound to indicate that operation has been accepted. ON*: No beep sound will be heard except for the alarm. OFF: LED You can turn on or off the OPR (operation) indicator during operation. The OPR indicator lights or flashes during operations such as recording or ON*: plavback. OFF:

OK/-/OK The OPR indicator turns off even during operation. (Even if you set the LED to "OFF", the indicator lights when the unit is connected to the PC.) You can turn on or off the backlight on the display window during operation. Backlight OK/OK/OK The backlight on the display window lights during operation. ON*: The backlight on the display window turns off during operation OFF: List View You can select the list view or one message view in the stop mode. List of the messages is displayed in the stop mode OK/OK/-ON: OFF*: A message is displayed in the stop mode.

**Displays whether you can change the setting in each operation mode (Stop: stop mode/Play: playback mode/Rec: recording mode) "OK" shows the setting can be changed and "-" shows the setting cannot be changed

141312 11 10 9



- change the icon with the "Edit Folder" in the menu. 2 Priority marks Displays the priority marks specified with the "Priority" with the menu. You can renumber the
- messages in the order of their priority. **3** Selected message number /Total number of
- e messages in the selected folder Alarm indicator
- Appears when the alarm is set for a message.
- 5 Playback slider Displays the current playback position.

Remain: Displays the

mode, and the

modes.

remaining time of the

Name: Displays the message

Voice Editor. (Some

characters that are not

compatible with the unit

may not be displayed.)

9 Remaining memory indicator

Displays the remaining memory

minutes, the indicator flashes

When the remaining time

reaches 1 minute, the

indication 6 will flash

regardless of the display

some of the messages.

the "Display" menu.

10 Recording mode indication

the "REC Mode" in the menu:

remaining time

mode.

Notes

8 Repeat play indicator

in the menu.

7 Recorded date and time indication

the current message are displayed.

Recorded year, month, day, hours, and minutes of

Appears when "Repeat" (one message repeat

playback mode) is selected with the "Play Mode"

• During recording, the indicator decreases one by

• When the memory is full, recording automatically

• If data other than sound data is saved, the remaining

• When you set the "Beep" in the menu to "OFF", an

Displays the current recording mode specified with

ST: Standard play stereo recording mode

• STLP: Long play stereo recording mode

• LP: Long play monaural recording mode

11 VOR (Voice Operated Recording) indicator

• SP: Standard play monaural recording mode

Appears when the "VOR" in the menu is set to "ON" and the voice operated recording is activated.

alarm sound (beep) does not sound

stops and "Memory Full" will be displayed with

an alarm sound. To continue recording, first erase

memory time is displayed excluding the data. You can

check the remaining memory by selecting "Remain" in

When the remaining recording time reaches 5

with the supplied Digital

message in the playback

6 Counter (Elapsed time)/Remaining time / Message name indication

The display mode selected with the "Display" in the

menu appea Elapse: Displays the elapsed

remaining recordable time 05y10m15d 13:26

in the stop and recording

□ 001/001 playback/recording time of one message (counter). 0:07:28

Meeting

05y10m15d 13:26

□ 095/095

Remaining memory tin

=-0:00:59

Recording

05y10m15d 13:26 ☐ 005/045

-0:07:28

17 Scroll bar

Displays the current location of the displayed messages among the whole messages in the current folder

list view

1 Press ◀ (MENU).

press ► 🔳.

displayed.

View".

4 Press ►■.

changed.

follows

The effect of the back light of the display window may be name (title) if it is specified reduced in a bright location

The menu window is displayed.

The Preferences menu is

3 Press **▲**/**▼** to select "List

The "List View" setting

window is displayed.

"ON" (list view) or

"OFF" (one message

view) and then press

5 Press **▲**/**▼** to select

The setting will be

6 Press ■STOP to return to ► Various Ways of Recording 003/009 Playing Back a Message at a the normal display. **Desired Time with an Alarm** The remaining messages w 0:00:00 Adding a Recording to a be renumbered. (For 05y10m25d 10:00 example, if you erase **Previously Recorded Message** You can sound an alarm and start playback of a selected Message 3, Message 4 will be nessage at a desired time. You can have the message renumbered as Message 3. of recording You can add a recording to the message being played played back at a specified date, once every week, or the When erasing is completed, same time everyday the unit will stop at the You can also sound the alarm without playing back a beginning of the following · At a factory setting, you cannot add a recording not to erase message message.) the message by accidental operation. To add or overwrite a Note recording, set the "Add/Over" in the menu to "Add REC" When the clock is not set or no messages are recorded, you To cancel erasing or "Overwrite". cannot set the alarm Press STOP before step 5 • The added or overwritten portion of a message will be **1** Display the message you recorded in the same recording mode (ST, STLP, SP or LP) To erase a message partially want to set the alarm. as the original message, regardless of the current recording First divide the message and then follow the steps on this mode setting. section to erase the message. 0:00:00 · You cannot add or overwrite a recording if the remaining 05y10m15d 13:26 memory is not long enough. For more information, see Erasing all messages in a folder "Troubleshooting" You can erase all recorded messages in a folder. When "Add REC" is selected in the menu **2** Enter the alarm setting 2 Priority 1 Display the folder or a message in the folder The added recording will be placed after the current message and counted as a part of the message. that you want to erase. ① Press ◀ (MENU), and Move MSG select 🖉 (Edit) by 2 Press ◀ (MENU), and Alarm menu. playback of Message 4 🛓 Erase a MSG Message 3 pressing \blacktriangle / ∇ , and then select 🏢 (Erase) by Message 3 press ► 🔳. EraseAllMS pressing \blacktriangle / ∇ , and then ② Press ▲/▼ to select After adding Message 3 press 🏲 📕 🖺 EraseFolder Message 4 "Alarm" and press > . Alarm The cursor moves to the a recording The alarm setting mode l-Col Added recording OFF Erase menu. will be displayed. ON ③ Press ▲/▼ to select **3** Press ▲/▼ to select "Erase When "Overwrite" is selected in the menu EraseAllMSG You can add an overwrite recording after the selected "ON" AllMSG" and press ►■. If "ON" has already been 5 FOLDER01 The window for erasing all point in a recorded message. The part of the message selected, follow the next after the selected point is deleted. the messages in a folder is Execute displayed. Alarm Cancel The starting point of an overwrite recording ④ Press ►■. ■Date The window to set the Message 3 Message 4 4 Press ▲/▼ to select 5 Press ►∎. SUN alarm date will be EraseAlIMSG "Execute" and press The deleted par MON displayed. ✓ of Message 3 Execute? The confirmation window is ----**3** Set the alarm date. displayed. Yes Message 4 Message 3 To play back on a desired No 5 Press ▲/▼ to select "Yes" lAlarm Added overwrite recording in Message 3 and press ► 🔳. ① Press ►■ while "DATE 05jy 1m 1d mark(s) All the recorded mess is selected 1 During playback, press contained in the folder are 0:00 □ 005/045 The year digits will be **OIIREC/PAUSE briefly** erased. The folder itself will selected. The "Add REC?" or not be erased Add REC? "Overwrite?" will appear ② Press ▲ or ▼ to select 6 Press ■STOP to exit the menu mode. Alarm and the unit stops in the 05y10m15d 13:26 the year digits and press recording stand-by mode To cancel erasing 05 y 10m The month digits will be Press STOP before step 4. 2 While the "Add REC?" or @ Tip □ 005/045 0:00 selected. "Overwrite?" appears, ③ Set the month and day If a folder contains a lot of messages, it may take long to erase press **OII**REC/PAUSE Add REC in sequences. all the messages. 0:07:28 To play back once a week The OPR indicator will turn lAlarm in red. An add or overwrite Press ▲ or ▼ to select the Date day of the week, and recording starts. **Dividing a Message** press ► 🔳. SUN **3** Press **STOP** to stop the recording. MON You can divide a message during recording or playback 10 so that the message is divided into two and the new To play back at the same **Recording with an External** Alarm nessage number is added to the divided message. By time every day dividing a message, you can easily find the point you using the software FRI **Microphone or Other Equipment** Press ▲ or ▼ to select want to play back when you make a long recording such "DAILY", and press > . SA1 as a meeting. Daily Recording with an external microphone You can divide messages until the total number of messages in the folder becomes 999. Connect an external microphone to the **** (microphone) **4** Set the alarm time. When you connect an external microphone, the built-in Alarm Press ▲ or ▼ to select • Due to the recording system of an IC recorder, you may not microphone is automatically cut off. When a plug in the hour digits and press be able to divide a message in some cases. For the details, **05** y **10** m **15** d power type microphone is connected, power is "Troubleshooting" automatically supplied to the microphone from the IC 0:00 If you divide a message with priority mark(s), priority mark(s) will be added to both parts of the divided message The minute digits will recorder flash. 91.) • The recorded date and time (the starting date and time of ② Press ▲ or ▼ to select recording) of the divided messages are identical to the Alarm External Stereo the minute digits and original message. mini-plug press ► 🔳. microphone (not **05** y **10** m **15** d • If you divide a named message, the both parts of the (stereo) supplied) divided messages will have the same message name. Note 15 : 🗓 • If you divide a message with an alarm setting, the alarm You cannot set the alarm at a etting remains only with the former message divided To the 🔨 previously set date and time If you divide a message to which the bookmark is set with (microphone) jack on another message in the the supplied Digital Voice Editor, the bookmark is erased built-in memory or "Memory Recommended types of microphones You can use the ECM-CS10 Sony electret condenser While recording or playing back a message, press **5** Select the alarm playback. microphone (not supplied). Alarm DIVIDE at the point you want to divide. Press \blacktriangle or \blacktriangledown to select the ■Beep&Play **Recording from other equipment** alarm sound either from When you press DIVIDE during recording "Beep&Play" (for starting Beep To record sound of other equipment with the IC recorder, The new message number is press **>**. playback after the alarm) o □ 003/003 connect the 🔨 (microphone) jack of the IC recorder to the added at the point you pressed "Beep" (for only the alarm). earphone jack of other equipment (tape recorder etc.) by the button, and "New MSG New MSG REC menu. using a resistance audio connecting cable. REC" appears for 3 seconds. 6 Press ►∎. The message will be divided



Adding Priority Mark(s) - Priority Mark Function Usually the recorded messages are lined up in the order By adding priority mark(s) (\blacktriangle) to important messages, you can renumber the messages in the order of their priority. There are four levels, "▲▲▲" (the most important), " \blacktriangle ", " \blacktriangle ", and "None" (no priority mark) You can add priority marks both in the stop mode and in the playback mode. **1** Display the message you want to mark. 0:00:00 05y10m15d 13:26 2 Press ◀ (MENU), and Priority select 🖉 (Edit) by pressing 🛅 ▲/▼, and then press ►■. The cursor moves to the Edit **A** arm None ᅋᆙᆣᅟᅟᅟᅟ **3** Press ▲/▼ to select Priority "Priority" and press
1. ∎None The window for setting priority marks is displayed. 4 Press $\blacktriangle / \blacksquare$ to select the Priority number of the priority ■None marks with which you The setting is finished 6 Press ■STOP to exit the menu mode. The messages will be renumbere Messages with priority e.g. When there are 3 messages in a Messages are sorted in order of folder the number of priority mark(s) **≏±001/**003 (\blacktriangle) in a folder. Messages without a priority mark are 0:00:00 moved behind the messages 05y10m15d 13:26 Message ' If there are over 2 messages with the same number of priority marks in a **≙±002/**003 folder, these messages are sorted by the recorded date and time. (The 0:00:00 05y10m15d 15:20 STUP You can also add priority mark(s) using the supplied "Digital Voice /lessage 2 Editor" software. But messages an not sorted in order of the number of □ 003/003 the priority marks unless you sorted by the number of priority marks 0:00:00 05y10m15d 10:00 Message 3 ► Handling Folders

Adding / Deleting Folders

By default setting, there are 5 folders: "FOLDER01" through "FOLDER05". You can add folders as you like.

The maximum number of folders you can add varies depending on the using conditions. "Folder Full" is displayed in the display window when you cannot add any folde because of the system limitations of the IC recorder.

2 Priority Move MSG pressing \blacktriangle / ∇ , and then ∎Alarm The cursor moves to the Edit None l C C Move MSG 2 Press ▲/▼ to select "Add Folder" and press ►∎. Alarm The window for creating a AddFolder new folder is displayed. **3** Press **▲**/**▼** to select Add Folder



4 Press ▲/▼ to select "Icon"

and press ►∎.

FOLDER01

0:00:00

5112

Name 4 Press ▲/▼ to select folder01 "Name" and press > . Schedule The window for selecting a folder name is displayed. Meeting 5 Press ▲/▼ to select a Memo folder name and press l 🖹 Memo menu mode. The folder is labeled with th selected name and its associated icon.

You can also label a folder using the supplied "Digital Voice Editor" software. For the details, see the help of the Digital Voice Editor. Some characters that the unit does not support will not be displayed properly

Expanding the Memory with the "Memory Stick"

Inserting the "Memory Stick"

You can expand the memory by inserting the "Memory Stick Duo" or "Memory Stick PRO Duo" into the MEMORY STICK slot.



• Do not insert or remove the "Memory Stick" while a ssage of the built-in memory is recorded or played back Doing so may cause malfunction of the unit. Make sure to insert the "Memory Stick" firmly • Do not insert a "Memory Stick" in a different direction. I may cause malfunction of the unit.

When you insert the "Memory Stick" for the first time (initializing the memory)

Because a commercially available "Memory Stick" has already been formatted at the factory, you do not need to format a

EraseAl IMSG

Format

•

Built-in

MemoryStick

Cancel

Execute?

No

ormat

EraseFolder

System requirements

"Memory Stick-R": Data stored in "Memory Stick-R"

cannot be overwritten. It can be used on "Memory

Stick-R" compatible devices. You cannot store data

with "MagicGate" copyright protection technology.

"Memory Stick" (MagicGate/High-Speed Transfer

Compatible): "Memory Stick" (MagicGate/High-

speed data transfer. It can be used with all the

device.)

technology

Notes on use

Write-protect

is removed.

"Formatting the Memory"

formatted on your PC

switch

data

mode

STLI

Speed Transfer Compatible) employs "MagicGate"

copyright protection technology and supports high

"Memory Stick"-compatible devices. (Data transfer

speed depends on the "Memory Stick"-compatible

"MagicGate Memory Stick" : "MagicGate Memory

• "Memory Stick-ROM": "Memory Stick-ROM" is the

read-only "Memory Stick" storing the data. You

'MagicGate" is a copyright protection technology for

or write the data subject to the "MagicGate" copyright

"MagicGate Memory Stick" and compliant products. The unit

does not support the "MagicGate" standards and cannot read

• When you slide the write-protect switch to the write

protect position, you cannot record, edit, or delete

Place the label here

while the unit is reading or writing data

Data may be damaged in such occasions

electrostatic or electronic noises

Notes on formatting (initializing)

Avoid removing the "Memory Stick" from the unit

While the unit is reading or writing data, the

"Memory Stick" is removed or the batteries are

We recommend that you save backup of the important

'Memory Stick" is shipped with a FAT format as the

"Memory Stick", always perform the procedures in

About the minimum recording unit

remaining memory reduces accordingly

counted as a minimum recording unit.

Other Operations

1 Press ◀ (MENU), and

select 🏢 (Erase) by

pressing \blacktriangle/∇ , and then

Formatting the Memory

standard format. To format "Memory Stick", use devices

conformable with the "Memory Stick". When you format

We cannot guarantee operations if the "Memory Stick" is

When recording a message in the "Memory Stick", the

folders, or others is recorded in addition to the message

itself. As the number of messages or folders increase, the

To record a message or add a folder, you need the time of

recording time of a message may be less than that of the

If the remaining recording time of the inserted "Memory

Stick" is less than that of the minimum recording unit,

you cannot add a message or a folder in the "Memory

The minimum recording unit in each recording

8 seconds

8 seconds

8 seconds

22 seconds

You can format the built-in memory and a "Memory Stick

MEMORY STICK slot. Formatting will delete all the data

recorded in the memory including images and other data.

Duo" or "Memory Stick PRO Duo" inserted in the

Before formatting, check the data in the memory

minimum recording unit, the time of the message is

relevant information of the message, the number of

the minimum recording unit. Although the actual

removed. Or the AC power adaptor (not supplied)

The "Memory Stick" is used in a location subject to

equipped with write-protect switch.)

Connector

the data. (Some types of "Memory Stick Duo" are not

cannot save or delete its data.

What is "MagicGate"?

Stick " employs the "MagicGate" copyright protection

"Memory Stick": "Memory Stick" can store all types

of data except for the one that requires the

"MagicGate" copyright protection technology

Your computer and system software must meet the following minimum requirer IBM PC/AT or compatible CPU: 266MHz Pentium® II processor or higher RAM: 64MB or more - Hard disk space: 70MB or more depending on the size and number of sound files you store - CD-ROM drive - USB port Sound board: Sound Blaster 16 compatible Display: High color (16 bits) or more and 800 x 480 dots or mo OS: Microsoft[®] Windows[®] XP Media Center Edition 2005/Windows[®] XP Media Center Edition 2004/ Windows® XP Media Center Edition/Windows® XP Professional/Windows® XP Home Edition/ Windows[®] 2000 Professional/Windows[®] Millennium Edition/Windows® 98 Second Edition standard installation (You cannot use this software with Windows[®] 98, Windows[®] 95 or Windows[®] NT.) You cannot use the software with a Macintosh machine • A handmade computer, a computer whose operating system is installed or upgraded by the user, or a compu

Other Information

Precautions

with multi-boot operating environment are not supported

On power • Operate the unit only on 3 V DC. Use two LR03 (size

AAA) alkaline batteries On safety

• Do not operate the unit while driving, cycling or operating any motorized vehicle.

On handling

• Do not leave the unit in a location near heat sources, or in a place subject to direct sunlight, excessive dust or mechanical shock. • Should any solid object or liquid fall into the unit,

remove the batteries and have the unit checked by qualified personnel before operating it any further

On noise Noise may be heard when the unit is placed near an AC power source, a fluorescent lamp or a mobile

phone during recording or playback. Noise may be recorded when an object, such as your finger, etc., rubs or scratches the unit during recording

On maintenance

 To clean the exterior, use a soft cloth slightly moistened in water. Do not use alcohol, benzine or thinner.

If you place a magnetic card near the speaker of the unit, the card may be affected by the magnet of the speaker and may become unusable. Please keep a magnetic card away from the unit.

If you have any questions or problems concerning your unit, please consult your nearest Sony dealer.

Backup recommendations

To avoid potential risk of data loss caused by accidental operation or malfunction of the IC recorder, we recommend that you save a backup copy of your recorded messages on a tape recorder or to a computer, etc.

On system limitations of the IC recorder

There are some system limitations of the unit. Troubles as mentioned below are not malfunctions of the unit

You cannot record messages up to the

maximum recording time. • If you record messages in a mixture of ST, STLP, SP and LP modes, the recordable time varies from the maximum ST mode recording time to the maximum

- There may be other formatted data (for example
- Since you need the minimum recording unit to record a message even shorter than the minimum recording unit, the actual total recording time may become

recorder.

You cannot divide a message.

become unable to divide a message.

checks, consult your nearest Sony dealer.

Alarm already set for the same time.

erase a message or format the memory.

remedies described here.

the alarm setting.

Data not supported

File not supported

Maximum Folders

Memory Full

before recording.

Memory Stick Error

Stick" may be out of order.

Memory Stick is locked.

writable position.

No Folder/Message

other operations.

Past date and time.

the "Memory Stick".

the batteries

System Error

Replace Batteries

Power Supply Problem

Read-only Memory Stick

Only one folder remains.

Folder/File is protected.

only" under "Properties" of files.

drive with sufficient memory space.

Maximum Messages: Folder Full

Battery Low

corrupted.

number of folders or messages

each have been recorded in a folder.

mentioned above, the sum of the total recorded time in the counter (elapsed time) and the remaining time becomes shorter than the maximum recording time of

Specifications Recording media

Duo", Stereo/Monaural recording Recording time • ST: 1 hours 25 minutes • STLP: Approx. 2 hours 45 minutes Approx. 4 hours 20 minutes • SP: • LP: Approx. 11 hours 45 minutes Frequency range • ST: 60 Hz - 13,500 Hz • STLP: 60 Hz - 7,000 Hz 60 Hz - 7.000 Hz • SP: • LP: 60 Hz - 3,500 Hz Speaker approx. 2.8 cm $(1^{1}/_{8} \text{ in.})$ dia. Power output 350 mW Input/Output • Microphone jack (minijack, stereo) input for plug in power, minimum input level 0.6 mV, 3 kilohms or lower impedance microphone Headphones jack (minijack, stereo) - output for 8 - 300 ohms headphones USB connector

Built-in flash memory 32MB/"Memory Stick

Playback speed control (DPC) +100% to -50%

Power 1 Two LR03 (size AAA) alkaline batteries: 3 V

• "Memory Stick Duo" slot

• DC IN 3V jack

Dimensions (w/h/d) (not including projecting parts and controls $36.6 \times 107.5 \times 16.9$ mm (1 $^{1}/_{2} \times 4 ^{1}/_{4} \times {}^{11}/_{16}$ in.)

Mass (including batteries) 96 g (3.4 oz) Supplied accessories

Operating instructions (For the IC recorder (1)/For the application software (1)) Stereo headphones (1) USB connecting cable (1) Application Software (CD-ROM) (1) LR03 (size AAA) alkaline batteries (2) Carrying pouch (1) Dragon NaturallySpeaking® Preferred (Version 8.0) CD-ROM(1) supplied only with

ICD-MX20VTP sold in the USA Optional accessories Stereo headphones MDR-EX71SL, MDR-E931LP/Active speaker SRS-T88, SRS-T80 Electret condenser microphone ECM-CS10,

ECM-TL1/Audio connecting cable RK-G134HG, RK-G135HG, RK-G136HG, RK-G139HG (excluding Europe)/AC power adaptor AC-E30HG (excluding the models for Korea, the People's Republic of China, Australia, and New Zealand),/"Memory Stick Duo" MSH-M32N (32 MB), MSH-M64N (64 MB), MSH-M128N (128 MB)/"Memory Stick PRO Duo" MSX-M256S (256 MB), MSX-M512S (512 MB)/High Speed "Memory Stick PRO Duo" MSX-M256N (256 MB), MSX-M512N (512 MB), MSX-M1GN (1 GB) /PC Card

Adaptor for Memory Stick MSAC-PC3 Your dealer may not handle some of the above listed

optional accessories. Please ask the dealer for detailed information. Design and specifications are subject to change without notice

LP mode recording time.

- images) in the memory.
- shorter than the maximum recording time of the IC
- The maximum recording time varies depending on the
- No more recording can be made when 999 messages
- Due to the limitation of the IC recording system

• You cannot divide a message in a folder which has 999

If an Error Message is displayed

If the following error messages are displayed, do the

Should any problem persist after you have made these

• You set the alarm to play back a message at the date

• Batteries are weak. Replace batteries with new ones.

When the remaining batteries are short, you cannot

• The file is not supported by the unit, or the file itself is

• The unit does not support the file type of the selected

computer. You cannot edit or erase "Read-only" messages and folders. Remove the check for "Read-

Because there are already the maximum number of

Delete some unnecessary folders. Or switch to the

folders in the selected drive, you cannot add a folder.

• Because there are already 999 messages in the selected

• The remaining memory of the built-in memory or the

'Memory Stick" is too small. Erase some messages

• Insert the "Memory Stick" again. After inserting, if this

message is displayed again, the inserted "Memory

• The write-protect switch on the inserted "Memory

format in this condition. Slide the switch to the

Stick" is set to "LOCK". You cannot record, edit or

• The selected folder does not have any messages. Or,

the selected drive does not have any folders. Without

messages or folders, you cannot set the alarm or do

You cannot erase the last folder remained in the drive.

• You set the alarm at the past date and time. Set the

• You cannot use the "Memory Stick" formatted with

other devices . Use the "Format" in the menu to format

An AC power adaptor that is not compatible with the

IC recorder is connected. Make sure to use the AC

power adaptor for the unit (not supplied). Or insert

• Batteries are weak. Replace batteries with new ones.

The "Memory Stick" has been set to "Read-only". You

'Memory Stick". Release the "Read-only" setting.

The IC recorder failed in memory access because the

memory is corrupted or a system error occurred.

cannot edit or erase messages of a "Read-only"

alarm at an appropriate date and time.

Please format with the unit.

folder, you cannot add a message. Erase some

messages before adding or dividing a message.

message. You cannot play back or edit the file.

• Messages have been set to "Read-only" in the

and time previously set on another message. Change

• If you divide messages frequently, the unit may

audio connecting cable

To record the sound of the IC recorder with other

Before you start recording, set the microphone sensitivity

may be recorded interrupted. Make sure to use a resistance

Recording with other equipment

7 Press STOP to exit the 005/045 menu mode "(•)" is displayed when the 0:00:00





by setting the "Mic Sense" in the menu to "High".

If you use an audio connecting cable without a resistor, sound message having an alarm setting is displayed in one



6 Press ■STOP to exit the 002 05.10. 710:30 0003 05.10.25 10:00 In the list view

equipment, connect the Ω (headphones) jack of the IC recorder to the audio or line input connector (stereo miniplug) of other equipment.



• Make sure that the plugs are connected securely. • We recommend you make a trial recording to check the connections and volume control. • When connecting equipment other than Sony's, refer to the instruction manual of the equipment

► Various Ways of Playback

Locating quickly the point you wish to start playback (Easy Search)

You can guickly locate the point you wish to start playback by pressing \blacktriangle (\bowtie)/ \checkmark ($\blacktriangleright \bowtie$)) repeatedly during playback. This function is useful when locating a desired point in a long recording. Set "Easy Search" in the menu as follows: ON: You can go back for approx. 3 seconds by pressing

 \blacktriangle (\bowtie), or advance for approx. 10 seconds by pressing ▼ (►►). OFF*: You can go back or forward the messages by

pressing \blacktriangle/ \lor (I $\triangleleft \land \land \triangleright \lor$ I).

Playing back a message repeatedly — Repeat Play

Repeating a message



To resume normal playback

played back repeatedly.

Set "Play Mode" in the menu to "One MSG" or "Cont Play".

Playing back the specified section repeatedly — A-B Repeat

While playing back a message, you can set the start (A) and end (B) points for a section you wish to play repeatedly



05y10m15d 13:26 message view. @□/₩... STLP When the alarm time comes The alarm will sound for about 10 seconds and the selected message will be played back. (If you have selected "Beep", only the alarm will sound.) When the playback ends, the unit will stop automatically at the beginning of that message. To listen to the same message again, press ►∎. To stop alarm Press STOP while the alarm sound is heard. You can stop even when the HOLD function is activated.

To cancel the alarm setting or change the alarm time Select "OFF" in the steps ③-2, and then press ►■.

Notes • If the alarm time comes while another message is being played back with an alarm, the playback stops and the new sage will be played back. • If the alarm time comes during recording, alarm will sound for 10 seconds after the recording is finished and playback begins. "(•)" will flash when the alarm time comes • If more than one alarm time comes during recording, only the first message will be played back.

• When the alarm time comes when the unit is in the menu mode, alarm will sound and the menu mode will be cancelled. • If you erase the message you set the alarm to play back, the alarm setting will be cancelled. • If you divide a message with the playback alarm, playback will stop at the point you divided a message. • You can adjust the playback volume with VOLUME +/-.

• If the alarm time comes during erasing, alarm will sound for

• Alarm setting will not be cancelled after the alarm playback

finishes. To cancel alarm setting, set "Alarm" to "OFF".

0 seconds after the erasing is finished and playback begins

► Editing Messages

Erasing Messages

Once a recording has been erased, you cannot retrieve it. Erasing messages one by one

You can erase unnecessary messages one by one. When a message is erased, the remaining messages will advance and be renumbered so that there will be no space between messages. Before erasing Erase Message 3

Message 1 Message 2 Message 3 Message 4 Message 5 Message 1 Message 2 Message 3 Message 4



2 Press ◀ (MENU), and

press ► 🔳.

Erase menu.

displayed.

select 🏢 (Erase) by



Erase a MSG pressing \blacktriangle/∇ , and then EraseAlIMSG Note 省 EraseFolder other drive. The cursor moves to the ان 🔳







Message 1 Message 2 Message 3 A message is divided. Message 1 Message 2 Message 3 Message 4 The message numbers increase.

@ Tip

To play the divided message Press \blacktriangle or \checkmark to display the message number as the divided messages each have message numbers.

Moving Messages to a Different Folder — Move Function

You can move the recorded messages to another folder. When you move a message to another folder, the one in the previous folder will be erased. Example: Moving Message 3 in FOLDER01 to FOLDER03

> **1** Display the message you want to move. 0:00:00 05y10m10d 15:10



The cursor moves to the Edit menu ∎⊡[None

3 Press ▲/▼ to select "Move MSG" and press ► 🔳. Move MSG The window for selecting the destination folder is **首** Alarm displayed. le 📴 🗠 💷 💷 🗠

4 Press $\blacktriangle/ \blacksquare$ to select the Move MSG folder to which you want C FOLDER01 to move the message to 合 FOLDER02 and press ► 🔳. 🗅 FOLDER03 The window for moving the message is displayed. The message is played back from Move MSG the beginning. Execute? 5 Press ▲/▼ to select "Yes" Yes and press **>**. The message is moved to the No

destination folder. Messages

are sorted in order of the □ 002/002 recorded date and time. 6 Press ■STOP to exit the menu mode. 05y10m10d 15:10

0:00:00

You cannot move a message to the







Erasing

Cancel end of the current drive. 4 Press ■STOP to exit the

About added folder names

The new folder is labeled automatically with the icon "⁽¹⁾" and double figures or letter like "FOLDER04" or "FOLDERAB". If there is a missing number or letter among the folder names, the new one is labeled using the missing number or letters automatically. You can change the folder icon and name as you like.

No

Execute

Erasing a folder 1 Display the folder you want to delete.





3 Press ▲/▼ to select "Erase Erase Folder Folder" and press ►■. רFOLDER0 The window for erasing the Execute folder is displayed. Cancel 4 Press ▲/▼ to select

"Execute" and press The confirmation window rase Folde displayed. Execute? 5 Press ▲/▼ to select "Yes" Yes and press ►■.

The folder is erased 6 Press ■STOP to return to the normal display.

To cancel erasing Press STOP before step 4

Notes

 You cannot delete the last folder left in a drive. • After deleting a folder, the name of the remaining folders are not changed. If "FOLDER03" is erased, for example, the name of "FOLDER04" will remain the same. • If the folder contains recorded message, "Messages in folder will be erased" will be displayed. If you do, the folder and the contained messages are erased.

Editing an Icon and Name of a Folder

You can label an icon or name of a folder vourself.

r Registered templates of folder icons and names Folder icons and names registered as templates are associated with each other. When you select a folder icon or name, the folder name associated with the folder icon, or the folder icon associated with the folder name is automatically selected. When you re-select or edit the identical folder icon and name, they will no longer be associated. Some icons have no associated names.



Changing a folder icon

Folders have been automatically attached with the folder icon "". You can select the desired folder icon from the

Display the folder you want to change the



Folder" and press ►■. The window for editing a folder is displayed.

If you insert a "Memory Stick" for the first time af purchasing or one with no data, 5 folders (FOLDER01 to FOLDER05) will be made in the "Memory Stick"

"ACCESS" appears in the display window

automatically

message disappears.

Notes while "ACCESS" appears

 The unit is accessing data while "ACCESS" appears in the display window or the OPR indicator lights or flashes in red or orange. While accessing, do not remove the "Memory Stick", the batteries or AC adaptor (not supplied). Doing so may damage the data. If the unit is required to process excessive amount of data, "ACCESS" may be displayed for an extended period of time. This is not a malfunction of the unit. Wait until the

Removing the "Memory Stick"

Make sure that "ACCESS" disappears, and the unit is in the stop mode. Then push the "Memory Stick" into the unit. When it pops out, remove it from the slot as shown below.



Maximum recording time and number of messages* (in a "Memory Stick")

ST** STLP** SP** LP** 32MB 1 h. 25 m. 2 h. 45 m. 4 h. 20 m. 11 h. 45 m. 64MB 2 h. 50 m. 5 h. 35 m. 8 h. 50 m. 23 h. 35 m. 128MB 5 h. 50 m. 11 h. 10 m. 17 h. 45 m. 47 h. 25 m. 256MB 11 h. 10 m. 21 h. 35 m. 34 h. 10 m. 91 h. 10 m. 512MB 22 h. 5 m. 42 h. 35 m. 67 h. 25 m. 179 h. 45 m. 1GB 44 h. 55 m. 86 h. 25 m. 136 h. 50 m. 364 h. 55 m.

(h.: hours/m.: minutes) * In continuous recording/playback In approximate hours and minutes * The maximum number of messages in a folder is 999. When there are 5 folders in the "Memory Stick", you can record up to 1,012 messages **Recording modes: ST: Standard play stereo recording mode/STLP: Long play stereo recording mode/SP: Standard play monaural recording mode/LP: Long play monaural recording mode

When you use the "Memory Stick", the battery life may be shortened.

The above table shows the recording time when you use the 'Memory Stick" for use with ICD-MX20 only and by the initial setting with 5 folders. The maximum recording time and number of messages may differ depending on the using conditions. The maximum recording time of a "Memory Stick Duo" varies depending of the media type.

Using the "Memory Stick" (not supplied) with the unit

When you purchase "Memory Stick", make sure that you select 32MB, 64MB, or 128MB "Memory Stick Duo" with a logo MEMORY STICK DUD, or 256MB, 512MB, or 1GB "Memory Stick PRO Duo" with a logo MEMORY STICK PRO DUD.

"Memory Stick" is small, light-weighted, and nextgeneration IC storage media with a larger capacity than a floppy disc. You can use the "Memory Stick" to exchange data among "Memory Stick" compatible devices. In addition, you can use the "Memory Stick" as a removable external storage device to save your data. In a "Memory Stick", you can save image data from other device in addition to the sound files of the IC recorder.

poses. "Memory Stick Duo" and "Memory

can be used only with "Memory Stick PRO" compliant

Sizes of "Memory Stick"

There are two sizes of "Memory Stick": regular size "Memory Stick" and compact size "Memory Stick Duo" With a Duo adaptor, you can use "Memory Stick Duo" on a device supporting regular size "Memory Stick". For ICD-MX20, use a "Memory Stick Duo" or "Memory Stick

devices



Stick PRO Duo" are the only media supported by ICD-Edit Folder MX20. "Memory Stick PRO": "Memory Stick PRO" employs Icon the "MagicGate" copyright protection technology and Name

 \mathbf{P}

press ► 🔳. The cursor moves to the Erase menu 2 Press ▲/▼ to select 'Format" and press **>** The window for selecting the memory to be formatted is displayed. Note When the "Memory Stick" is not inserted, this window does not appear. Skip to step 4.



_____ 5 Press ▲/▼ to select "Yes" Format and press ► 🔳. Formatting of the selected Formatting media starts.

6 Press ■STOP to return to the normal display. After formatting, 5 folders (FOLDER01 to FOLDER05) are automatically made in the memory in the same way when you insert batteries for the first time after purchasing.

To cancel formatting Select "Cancel" in step 4 or "NO" in step 5.

You cannot format when the write-protect switch on the "Memory Stick" is set to "LOCK".

Using the "Digital Voice Editor" Software

• Transferring the PC messages back to the IC recorder.

• Sending a voice e-mail message using MAPI e-mail

• Transcribing your IC recorder message using Dragon

Use the USB connecting cable supplied to connect the

USB connectors of the IC recorder and your computer.

USB connecting cable

When the unit is connected to the PC, "PC Connect"

recognized as an IC recorder and the "Memory Stick" is

recognized as a removable disk. You can use Windows

To set the clock of the unit automatically

Set "Date&Time" in the menu to "Automatic" an

started. The clock of the unit is automatically set according to the internal clock of your PC

appears on the display window and you can recognize

When you connect the unit to your PC, the built-in memory is

xplorer to display the data stored in the built-in memory or

"Memory Stick". When playing, editing, or saving a messag

however, please make sure to use the supplied Digital Voice

connect the unit to the PC after the Digital Voice Editor is

To USB

USR com

the IC recorder with your PC.

connector

(supplied)

To USB connector

₽

NaturallySpeaking® speech-recognition software (not

· Playing or editing the messages on your computer

By connecting the IC recorder to your computer, you can use the "Digital Voice Editor" software to do the

software.

supplied)

IC Recorder

following Saving the IC recorder messages on your computer's hard disk.

For the details, see the supplied "Digital Voice Editor 2" About the "Memory Stick" software operating instructions Connection

What is "Memory Stick"?