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.

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.

headphones are plugged in.

The batteries are weak

polarity.

Before taking the unit for repair, check the following

these checks, consult your nearest Sony dealer.

• The batteries have been inserted with incorrect

sections. Should any problem persist after you have made

• 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

delete unnecessary files or use "Format" menu of the

Sound comes from the speaker even when the

If you plug in the headphones not securely during

playback, the sound may come from the speaker.

use the Digital Voice Editor to save the IC recorder

the "Memory Stick" with sufficient capacity

The write-protect switch on the inserted "Memory

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 overwritten

• 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

message or the folder using Windows Explorer and

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

essages to the hard disk of your PC. You can also use

Unplug the headphones and then insert them securely.

insufficient. Use the Windows Explorer or other tool to

The "Memory Stick" is not recognized. The

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

http://www.sony.net/

Model No. ICD-MX20 Serial No.

IC Recorder

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 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 Reorient or relocate the receiving antenna.

Increase the separation between the equipment and

- 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 You are cautioned that any changes or modifications not

expressly approved in this manual could void your authority to operate this equipment.

For "Memory Stick"

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

operation If you have any questions about this product, you may

Declaration of Conformity

Trade Name:

Responsible Party:

Model:

call: Sony Customer Information Services Center 1-800-222-7669 or http://www.sony.com/

SONY

ICD-MX20

Stick" is set to "LOCK" . 999 messages have already been recorded in the selected folder. Select another folder or erase some of You cannot erase a message • The message or the folder containing the message is

Stick" is set to "LOCK"

Address: 16530 Via Esprillo, San Diego, CA 92127 U.S.A. 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 eceived, including interference that may cause undesired operation.

Sony Electronics Inc

Notice for users

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► Getting started

Step 1: Installing the Batteries

1 Slide and open the battery compartment lid.

> 2 Insert two LR03 (size AAA) alkaline batteries with correct polarity, and close the lid. Make sure to insert batteries into the unit from the - end first. 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. Please refer "Step 2



Replacing the batteries

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





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



e.g.



Playing Back Messages

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".

(headp

during playback.)

Select the message and start playback.

ones) jaci	K
	① Press ▲ or ▼ to display the desired message number.
UM	▲: for previous message number
	▼: for next message number
	② Press ►■.
	Selected message number/Number of
-	messages in the selected folder
	Playback slider
ÖN Y	Displays the current
261 11	playback position.
MT UN	
1	0:07:28 Counter display*
Ŏ	05y10m15d 13:26 Recorded date and time
	of the message

OPR indicator** - ③ Adjust the volume with VOLUME +/-. (lights in greer

□ 095/095 The display selected with the "Display" in the menu Volume appears *When the "LED" in the menu is set to "OFF", the OPR

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) enter the menu mode. **2** select the desired menu (h/m/2/E). Press A/V and press > I. 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, press <.) select the setting item. Press \blacktriangle / \lor and press $\blacktriangleright \blacksquare$



MSG Name Menu items Settings (*: Initial setting) h Record/play menu You can set the recording mode (bit rate):

REC Mode

High*:

Low:

Mic Sense

VOR

- You can record with high-quality stereo sound. (48 kbps) You can record with stereo sound for longer time. (24 kbps) STLP:
- You can record with better sound (monaural sound). (16 kbps)
- LP: You can record for longer time (monaural sound). (8 kbps) Note: When the DIRECTNL switch is set to "ON", a message will be recorded in

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

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

monaural even in the "ST" or "STLP" recording mode. You can set the microphone sensitivity

To record dictation or in a noisy place.

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

Keep ▲ pressed during playback

If you keep $\mathbf{\nabla}$ or \mathbf{A} pressed, the unit

During cue/review, the counter will

@ When playback or fast playback

When fast playback is done to the

end of the last message, "Message

End" flashes for 5 seconds. (You

cannot hear the playback sound.)

"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 $\mathbf{\nabla}$ pressed to

play back the message to the end

and then press ▲ while "Message

End" is flashing to go back to the

• For messages other than the last

Listening in better sound

not supplied) to the Ω

disconnected.

(headphones) jack.

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: Connect

the stereo headphones (supplied or

(headphones) jack. The built-in

•To listen from an external speaker

speaker (not supplied) to the Ω

How the display changes in

Entering the

Selecting the

item in the

Selecting the

setting item

Stop/Play/Rec**

OK/-/-

OK/-/OK

OK/-/OK

OK/-/-

OK/OK/-

OK/OK/-

OK/OK/-

(2, 3)

(4)

desired menu

nenu mode (1)

the menu mod

I REC Mode ☆ Mic Sense ¥ VOR

Display ,

≱Date&Tim

Elapsed Time

isplay

Elapse

ا ن کے

🖻 Beep

speaker will be automatically

Connect an active or passive

desired point.

desired point

quality

follows

If you keep ▲ pressed while

is done to the end of the last

and release the key at the point you

pressed during playback and

wish to resume playback. • To search backward (review):

wish to resume playback.

starts to search at higher speed.

be displayed, regardless of the

display mode setting

message



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). • The DIRECTNL switch is set to "ON", sound is recorded in monaural even if you select ST or STLP • In the ST and STLP mode, sound is recorded in higher

quality sound thanks to their higher bit rates even in the monaural recording.

4 OPR (operation) indicator

forward)/►∎ (play/stop•enter)

6 **●IIREC (record) /PAUSE button**

Press here to stop operation.

11 VOLUME (volume) +/- button

Press to divide a message during playback.

speaker are connected.

9 MEMORY STICK slot

PRO Duo" here

10 USB connector

12 DIVIDE button

2 Priority marks

13 A-B (repeat) button

Press here to start and pause recording

Sound is heard when no headphones or active

5 Control key

7 STOP button

8 Speaker

3 Display window For the details, see "Using the display window" below

(MENU)/(C): folder) (H : review)/(C) : fast

16 (microphone) jack (PLUG IN POWER)

You can connect an external microphone here. When The indicator lights in red during recording or in an external microphone is connected, the built-in green during playback. It flashes in red during microphone is automatically cut off. recording pause. During accessing the data, it lights 17 DPC ON/OFF switch or flashes in red or orange. You can turn off the indicator with the "LED" in the menu

14 HOLD switch

displayed

🐨 Tip

To prevent accidental operation, slide this switch to

that all the functions of the buttons are locked.

To cancel the HOLD function

Slide the HOLD switch to "OFF"

15 (headphones) jack

When the HOLD function is activated during stop,

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

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

 $\dot{VOLUME} + / - 11$, but the recording level is fixed.

supplied 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

■STOP. (You cannot stop usual playback.)

To monitor the recording from the built-in

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

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:<u>00:3</u>/ 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 Insert the "Memory Stick Duo" or "Memory Stick

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

Use the USB cable to connect a PC here optimum level. OFF: A message is played back without Digital Voice Up function. Adjust the playback sound with the button

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

- Press to specify the beginning and ending points of **19** Slit for a handstrap You can attach a handstrap (not supplied) here. 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.

Using the display window







stop mode.

Step 2: Setting the Clock



▲: to decrease the number It to increase the number

- 2 Press ►■. The month digits will flash. **3** Repeat steps 1 and 2 to set the month, day,
- hour, and then minutes in sequence. To select a previous or next item Press \blacktriangleleft for the previous item or \blacktriangleright for the next

If you do not press **>** for more than one minute, the clock setting mode is cancelled and the window

4 Press ■STOP to return to the normal

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 of

1 Press ◀ (MENU) to display the

▶ REC Mode

Display

🖶 Beep

🗳 VOR

a Cr

2 Press ▲/▼ to select 🛱 (Preferences)

3 Press ▲/▼ to select "Date&Time".

right bottom of the display

4 To set the clock, press \triangleright **t** to

display the "Date&Time" window

the "Step 2: Setting the Clock".

This unit does not have a power on/

off switch. The display is shown at all

and follow the steps 1 through 4 of

The current time is displayed in the

and then press \blacktriangleright

vindow.

times

☐ ÊFOLDER01

CFOLDER02

合FOLDER03

[000/0

📺 Mic Sense

check the current time:

Notes on batteries

this unit.

memory)

the data.

· 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

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

"ACCESS" appears in the display

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

accessing, do not remove the

batteries or AC adaptor (not

If the unit is required to process

excessive amount of data,

the message disappears

window or the OPR indicator lights

for the first time after

unit for an extended period of time,

· Do not charge dry batteries

Connect the AC power adaptor (not

readable form without prior written approval from Sony Corporation.

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herein at any time without notice. The software described herein may also be governed by the terms of a separate user license agreemen

• This software is for Windows and cannot be used for Macintosh. • The supplied connecting cable is for the IC recorders

ICD-MX20. You cannot connect other IC recorders.

Information

IN NO EVENT SHALL SELLER BE LIABLE FOR ANY DIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY NATURE, OR LOSSES OR EXPENSES RESULTING FROM ANY DEFECTIVE PRODUCT OR THE USE OF ANY PRODUCT.

Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems)



disposed of correctly, you will help prevent potential negative consequences for the environment and humar health, which could

otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product.

The validity of the CE marking is restricted to only those countries where it is legally enforced, mainly in the countries EEA (European Economic Area).

Notice for the customers in the countries applying EU Directives

The manufacturer of this product is Sony Corporation, 1-7-1 Konan, Minato-ku, Tokyo, Japan. The Authorized Representative for EMC and product safety is Sony Deutschland GmbH, Hedelfi nger Strasse 61, 70327 Stuttgart, Germany. For any service or guarantee matters please refer to the addresses given in separate service or

guarantee documents.

Recording is interrupted (when recording from an external device).

Recording is interrupted.

the remaining recording time.

"Overwrite"

· 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 resistance 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 nessage, 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 remaining time, which is the reason for the difference.

The battery life is short.

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

"ACCESS" display does not disappear.

· 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 message disappears.

The unit does not operate correctly.

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

You cannot connect the unit to the PC. • Refer to the "Digital Voice Editor 2" operating instructions.

Please note that recorded messages may be erased during service or repair work.

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 e 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 ecording Message 1 Message 2 Blank space Newly recorded message









Start recording. ① Press ●IIREC/PAUSE during the stop

Built-in microphone You do not need to keep pressing ● ■ REC / PAUSE while recording Current message number/ Number of messages in Folder icon the selected folder Remainir <u>001/001</u> memory Remaining Recording indication 0:00:05 Counter display Recording mode Remaining memory indication **Microphone sensitivity**

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 Press STOP stop recording 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 record in the same folder. Press OIIREC/PAUSE. pause recording* During recording pause, the OPR indicator flashes in red and "REC Pause" flashes in the display window. Press OHREC/PAUSE release pause and Recording resumes from that point. resume recording listen to the current Press \blacksquare STOP to stop recording, then press \blacktriangleright \blacksquare . recording Press ►∎ during recording. review the current recording instantly review during recording Keep pressing \blacktriangle (\bowtie) 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.



Maximum recording time* (built-in memory)





 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 🔨 (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 memory and the "Memory Stick" by switching drives as follows:

1 Press \blacktriangleright (\bigcirc) to display the folders in the current drive. 2 Press ◀. **3** Press \blacktriangle or \checkmark to select the "Memory" Stick" drive ((`) or the built-in



"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 may damage the data.

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

eliminating recording from soundless period. Recording starts when the unit detects sound and "VOR" is displayed. ON: Recording pauses when no sound is heard and "VOR Pause" 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 microphone sensitivity, or for important recording, set the "VOR" to "OFF". Add/Over You can enable or disable the adding or overwrite recording mode: You cannot add a recording to avoid erasing a message by accidental 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 ▲ (I◄◄), or advance for ON: approx. 10 seconds by pressing ▼ (►►). You can go back or forward the messages by pressing $\blacktriangle/ \forall (\bowtie / \triangleright)$. OFF*: Play Mode You can set the playback mode when you press >=: Cont Play*: The unit plays back all messages in a folder continuous 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.



Priority	You can add priority marks (▲) to the currently selected message. Usually the recorded messages are lined up in the order of recording. (None*/▲/▲▲) (See the reverse side.)	OK/OK/-	
Move MSG	You can move the currently selected message to the desired folder. (See the reverse side.)	OK/OK/-	
Alarm	You can set the alarm to the currently selected message. (See the reverse side.)	OK/-/-	
Add Folder	You can add a new folder to the end of the current drive. (See the reverse side.)	OK/-/-	
Edit Folder	You can change the icon and name of the currently selected folder. (See the reverse side.)	OK/-/-	

🖶 Preferences menu

Display	You can c	hange the display mode on the display window.			
1 5	Elapse:	Displays the elapsed playback/recording time of one message (counter).			
	Remain:	Displays the remaining time indication.	OK/OK/OK		
	Name:	Displays the message name (title) if it is specified with the supplied Digital			
		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.	OK/-/-		
	Manual*:	Displays the window to set the clock manually (05Y1M1D*).			
		(See "Step 2: Setting the Clock".)			
Beep	You can to				
	ON*:	A beep will sound to indicate that operation has been accepted.	OK/OK/OK		
	OFF:	No beep sound will be heard except for the alarm.			
LED	You can turn on or off the OPR (operation) indicator during operation.				
	ON*:	The OPR indicator lights or flashes during operations such as recording or			
		playback.	OK/-/OK		
	OFF:	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.)			
Backlight	You can turn on or off the backlight on the display window during operation.				
	ON*:	The backlight on the display window lights during operation.	OK/OK/OK		
	OFF:	The backlight on the display window turns off during operation.			
List View	You can se	elect the list view or one message view in the stop mode.			
	ON:	List of the messages is displayed in the stop mode.	OK/OK/-		
	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 141312 11 10 9 1 Folder icon **12** Microphone sensitivity indication Displays the icon of the current folder. You can Displays the current microphone sensitivity change the icon with the "Edit Folder" in the menu.

specified with the "Mic Sense" in the menu: • H (High): To record at a meeting or in a quiet/ spacious place. • L (Low): To record for dictation or in a noisy 13 Drive indication

Displays the current drive:

: Built-in memory drive

(*): "Memory Stick" drive

indicator does not appear.

15 Folder name indication

14 Remaining battery indicator

Displays the remaining battery volume. When the

AC power adaptor (not supplied) is connected, the

Displays the name of the current folder. You can

3 Selected message number /Total number of the messages in the selected folder

4 Alarm indicator Appears when the alarm is set for a message.

playback/recording time

of one message (counter).

Remain: Displays the

mode, and the

modes.

remaining time of the

Name: Displays the message

Voice Editor. (Some

8 Repeat play indicator

in the menu

characters that are not

compatible with the unit

Recorded date and time indication

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

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

Displays the current recording mode specified with

• ST: Standard play stereo recording mode

· SP: Standard play monaural recording mode

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

• STLP: Long play stereo recording mode

LP: Long play monaural recording mode

11 VOR (Voice Operated Recording) indicator

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

the current message are displayed.

may not be displayed.)

9 Remaining memory indicator

• When the remaining time

indication 6 will flash

regardless of the display

some of the messages.

10 Recording mode indication

the "REC Mode" in the menu:

reaches 1 minute, the

remaining time

mode

Displays the remaining memory

minutes, the indicator flashes

with the supplied Digital

message in the playback

messages in the order of their priority.

5 Playback slider Displays the current playback position.

Displays the priority marks specified with the

"Priority" with the menu. You can renumber the

6 Counter (Elapsed time)/Remaining time /

Message name indication The display mode selected with the "Display" in the menu appears Elapse: Displays the elapsed

☐ 001/001

□ 005/045

Meetin

05y10m15d 13:26

□ 095/095

lecording

Remaining memory tim

-0:00:5

change the icon with the "Edit Folder" in the menu. 16 Messages list

Displays the list of the three messages in the current 0:07:28 folder when "List View" in the menu is set to "ON". 05y10m15d_13:26 The number and recorded date/time of each message is displayed. You can scroll the messages with $\blacktriangle/ \bigtriangledown$.

17 Scroll bar

Displays the current location of the displayed -0:07:28 messages among the whole messages in the current remaining recordable time 05y10m15d 13:26 folder. in the stop and recording

The effect of the back light of the display window may be name (title) if it is specified 🗅 **005/045** reduced in a bright location

Switching the one message view and the list view

You can choose how the messages will be displayed on the stop mode between list view and one message view as follows:

1 Press ◀ (MENU).

Recorded year, month, day, hours, and minutes of The menu window is displayed **2** Press ▲/▼ to select 🖶 (Preferences) and then

changed

press ► 🔳. The Preferences menu is

displayed. **3** Press **▲**/**▼** to select "List

LED ⊮ Backlight View" 🖶 List View

4 Press ►■. The "List View" setting OFF. window is displayed.

6 Press ■STOP to return to the normal display.

5 Press **▲**/**▼** to select List View "ON" (list view) or OFF "OFF" (one message ON view) and then press The setting will be

6 Press ■STOP to return to 4 Press ▲/▼ to select "Icon" 003/009 🛱 FOLDER01 Playing Back a Message at a the normal display. Adding Priority Mark(s) and press ►∎. 3 ... 🗈 🛨 🖻 The window for selecting a The remaining Desired Time with an Alarm 0:00:00 — Priority Mark Function 蛊蛊⊡**습!** be renumbered. (For folder icon is displayed. 05y10m25d 10:00 example, if you erase | 🗂 🍫 🧰 🖿 🤤 You can sound an alarm and start playback of a selected Usually the recorded messages are lined up in the order Message 3, Message 4 will be message at a desired time. You can have the message of recording. renumbered as Message 3. 5 Press ▲/▼/◀/► to select a ☐ FOLDER01 By adding priority mark(s) (▲) to important messages, played back at a specified date, once every week, or the When erasing is completed, ame time everyday you can renumber the messages in the order of their folder icon the unit will stop at the 5 • **• • •** priority. There are four levels, " You can also sound the alarm without playing back a The cursor moves to the beginning of the following 岛岛区습! mportant), " direction you press the key message. message.) You can add priority marks both in the stop mode and in $(\mathbf{A}/\mathbf{V}/\mathbf{A}/\mathbf{b})$ ╚╗╆┋┣╔╧ When the clock is not set or no messages are recorded, you the playback mode When you keep pressing ▲/ To cancel erasing cannot set the alarm. ▼, you can scroll the pages. Press STOP before step 5 **1** Display the message you **1** Display the message you 6 Press ►■. □ 005/045 To erase a message partially want to mark. want to set the alarm. The setting is finished First divide the message and then follow the steps on this 0:00:00 section to erase the message. 0:00:00 7 Press ■STOP to exit the **001**/012 05y10m15d 13:26 05y10m15d 13:26 nenu mode Erasing all messages in a folder The folder is labeled with the 0:00:00 selected icon and its You can erase all recorded messages in a folder. 2 Press ◄ (MENU), and 2 Enter the alarm setting Priority 05y10m 7d 15:09 select Ø (Edit) by pressing HTTOTITY ▲/▼, and then press ►■. Priority . associated name. Display the folder or a message in the folder What is "MagicGate"? "MagicGate" is a copyright protection technology for "MagicGate Memory Stick" and compliant products. The unit that you want to erase. ① Press ◀ (MENU), and Move MSG The cursor moves to the Edit 首 Alarm Depending on the folder icon you choose, there is no select 🔗 (Edit) by Alarm 2 Press ◄ (MENU), and does not support the "MagicGate" standards and cannot read menu None Erase a MSG le Cl associated name. If you edit folder icons and names, folder pressing ▲/▼, and the select 🏢 (Erase) by or write the data subject to the "MagicGate" copyright press ► 🔳. cons and names will not be associated EraseAlIMSG protection. pressing \blacktriangle/∇ , and then **3** Press **▲**/**▼** to select ② Press ▲/▼ to select ioritv press ► 🔳. EraseFolder Changing a folder name Notes on use "Priority" and press "Alarm" and press 🕨 🔳. llAlarm None The cursor moves to the · When you slide the write-protect switch to the write The alarm setting mode The window for setting Folders have been labeled automatically with double OFF Erase menu will be displayed figures or letter like "FOLDER04" or "FOLDERAB", but priority marks is displayed ON **3** Press **▲**/**▼** to select "Erase ③ Press ▲/▼ to select . you can label folders as you like by using template EraseAlIMSG AllMSG" and press ► 🔳. FOLDER01 If "ON" has already been The window for erasing all 4 Press ▲/▼ to select the Priority **1** Display the folder you want to change the selected, follow the next the messages in a folder is number of the priority Execute ■None displayed. marks with which you larm Cancel ④ Press ►■ want to mark. ■Date 2 Press ◄ (MENU), and The window to set the Priority 4 Press ▲/▼ to select select 🖉 (Edit) by 5 Press ►∎. alarm date will be SUN raseAlIMSG Move MSG "Execute" and press 🍽 🔳. displayed. MON The setting is finished pressing \blacktriangle / ∇ , and then Execute? The confirmation window i **国** Alarm press ► 6 Press ■STOP to exit the menu mode **3** Set the alarm date. displayed. Yes The cursor moves to the Edi lene None The messages will be renumbered To play back on a desired 5 Press ▲/▼ to select "Yes" No lAlarm Messages with priority ---e.g. When there are and press ►∎. **3** Press ▲/▼ to select "Edit Press ►■ while "DATE" 🗓 y 1m 1d Edit Folder mark(s) 3 messages in a All the recorded messages Folder" and press Messages are sorted in order of is selected contained in the folder are lcon The window for editing a The year digits will be 0:00 the number of priority mark(s) ≏**±001/**003 erased. The folder itself will Name folder is displayed. selected. (\blacktriangle) in a folder. Messages 96.2 not be erased. without a priority mark are ② Press ▲ or ▼ to select 0:00:00 6 Press ■STOP to exit the menu mode. moved behind the messages llAlarm the year digits and press 4 Press ▲/▼ to select 05y10m15d 13:26 with priority mark(s). To cancel erasing 🗘 FOI DER01 05 y 10m 🗓 d 'Name" and press 🕨 🔳. The month digits will be Press STOP before step 4 The window for selecting a Schedule @ Tip Message 1 0:00 selected. folder name is displayed. If there are over 2 messages with th Meeting Notes on formatting (initializing) ③ Set the month and day same number of priority marks in a If a folder contains a lot of messages, it may take long to erase ≏±002/003 "Memory Stick" is shipped with a FAT format as the **5** Press **▲**/**▼** to select a Memo folder, these messages are sorted by all the messages standard format. To format "Memory Stick", use devices folder name and press the recorded date and time. (The To play back once a week conformable with the "Memory Stick". When you format 0:00:00 Alarm oldest one comes first.) Press ▲ or ▼ to select the I≣n Memo "Memory Stick", always perform the procedures in 105v10m15d 15:20 Date 6 Press ■STOP to exit the day of the week, and "Formatting the Memory" 001 05.10. 7 15:09 You can also add priority mark(s) SUN Dividing a Message press ► 🔳. menu mode using the supplied "Digital Voice Editor" software. But messages are 002 05.10. 710:30 Message 2 We cannot guarantee operations if the "Memory Stick" is The folder is labeled with th MON 003 05 10 25 10:00 formatted on your PC selected name and its You can divide a message during recording or playback not sorted in order of the number of **003/**003 so that the message is divided into two and the new the priority marks unless you sorted by the number of priority marks associated icon. About the minimum recording unit To play back at the same In the list view message number is added to the divided message. By Alarm When recording a message in the "Memory Stick", the time every day 0:00:00 dividing a message, you can easily find the point you using the software FRI relevant information of the message, the number of Press ▲ or ▼ to select You can also label a folder using the supplied "Digital Voice want to play back when you make a long recording such 05v10m15d 10:00 folders, or others is recorded in addition to the message "DAILY", and press ► 🔳. SAT Editor" software. For the details, see the help of the Digital as a meeting /oice Editor. Some characters that the unit does not support Daily You can divide messages until the total number of Message 3 will not be displayed properly. messages in the folder becomes 999 4 Set the alarm time. Notes ► Handling Folders llAlarm (1) Press \blacktriangle or \checkmark to select • Due to the recording system of an IC recorder, you may not Expanding the Memory with the be able to divide a message in some cases. For the details, the hour digits and pres **05** y **10** m **15** d "Memorv Stick' see "Troubleshooting". Adding / Deleting Folders The minute digits will • If you divide a message with priority mark(s), priority 0:00 flash mark(s) will be added to both parts of the divided message 9426 ---- The recorded date and time (the starting date and time of Inserting the "Memory Stick' By default setting, there are 5 folders: "FOLDER01" ② Press ▲ or ▼ to select recording) of the divided messages are identical to the Alarm through "FOLDER05". You can add folders as you like. the minute digits and original message You can also delete unnecessary folders. You can expand the memory by inserting the "Memory press ► 🔳. **05** y **10** m **15** d If you divide a named message, the both parts of the Stick Duo" or "Memory Stick PRO Duo" into the divided messages will have the same message name Note 15:80 MEMORY STICK slot. • If you divide a message with an alarm setting, the alarm The maximum number of folders you can add varies You cannot set the alarm at a setting remains only with the former message divided. depending on the using conditions. "Folder Full" is displayed previously set date and time · If you divide a message to which the bookmark is set with in the display window when you cannot add any folder on another message in the the supplied Digital Voice Editor, the bookmark is erased because of the system limitations of the IC recorder built-in memory or "Memory from the divided messages Stick' Adding a folder While recording or playing back a message, press **5** Select the alarm playback. 1 Press ◄ (MENU), and

select 🔗 (Edit) by

press **>**.

pressing \blacktriangle/∇ , and then

The cursor moves to the Edi

Folder" and press ►■.

"Execute" and press ► 🔳.

The new folder is labeled automatically with the icon

'FOLDERAB". If there is a missing number or letter

You can change the folder icon and name as you like.

1 Display the folder you want to delete.

nissing number or letters automatically.

"" and double figures or letter like "FOLDER04" or

among the folder names, the new one is labeled using the

Once a folder has been erased, you cannot retrieve it.

When erasing a folder that contains recorded messages,

The window for creating a

2 Press ▲/▼ to select "Add

new folder is displayed.

3 Press **▲**/**▼** to select

menu mode.

Erasing a folder

please check the contents.

2 Press ◄ (MENU), and

press ► 🔳.

Erase menu

displayed.

To cancel erasing

Notes

Folder

associated names

templates

folder icon.

2 Press ◄ (MENU), and

select 🖉 (Edit) by

Press STOP before step 4

select 🏢 (Erase) by

pressing \blacktriangle/∇ , and then

Folder" and press ►■.

The window for erasing the

"Execute" and press > 1.

The confirmation window is

5 Press ▲/▼ to select "Yes"

6 Press ■STOP to return to

• You cannot delete the last folder left in a drive.

name of "FOLDER04" will remain the same.

the contained messages are erased

After deleting a folder, the name of the remaining folders

are not changed. If "FOLDER03" is erased, for example, the

• If the folder contains recorded message, "Messages in folder

will be erased" will be displayed. If you do, the folder and

Editing an Icon and Name of a

W Registered templates of folder icons and names

with each other. When you select a folder icon or name, the

associated with the folder name is automatically selected.

they will no longer be associated. Some icons have no

Schedule, 🖬 Meeting, 🖹 Memo, 🛨 Bz Trip,

Lecture, 📇 Training, 🤮 Speech, 🔽 Action, 🏠

Lesson, 💬 Message, 🖫 Expense, 📑 Research, 🐂

⑧,②,☆,♥,♠,♣,♠,面

Changing a folder icon

Personal, 🕈 Idea, 💾 Shopping, 🎝 Music, 🚮 Travel, 🌨

Exhibition, 🗮 Report, 🖤 Sports, 😱 Date, 🍸 Party, 🜄

Lang.Lesson, \mathscr{P} Interview, \bigcirc , m, m, m, m, m, m, m, m,

Folders have been automatically attached with the folder

1 Display the folder you want to change the

icon "". You can select the desired folder icon from the

Priority

首Alarm

Name

Ð.

le Cl

Move MSG

None

Folder icons and names registered as templates are associated

folder name associated with the folder icon, or the folder icon

When you re-select or edit the identical folder icon and name

You can label an icon or name of a folder yourself

the normal display.

and press **I**.

The folder is erased.

folder is displayed.

The cursor moves to the

A new folder is add

end of the current drive.

4 Press ■STOP to exit the

About added folder names

a Alarm

Alarm

Add Folder

Cancel

🛃 Erase a MSG

EraseAl IMSG

EraseFolder

Erase Folder

FOLDER01

Execute

Erase Folde

Execute?

Yes

<u>'</u>

No

Cancel

le Di

Execute

AddFolder

microphone (not supplied). **Recording from other equipment**

Various Ways of Recording

Previously Recorded Message

You can add a recording to the message being played

• At a factory setting, you cannot add a recording not to erase

the message by accidental operation. To add or overwrite a

recording, set the "Add/Over" in the menu to "Add REC"

recorded in the same recording mode (ST, STLP, SP or LP)

as the original message, regardless of the current recording

You cannot add or overwrite a recording if the remaining

memory is not long enough. For more information, see

When "Add REC" is selected in the menu

message and counted as a part of the message.

The added recording will be placed after the current

When "Overwrite" is selected in the menu

The starting point of an overwrite recording

Added overwrite recording in Message 3

after the selected point is deleted.

1 During playback, press

The "Add REC?" of

●IIREC/PAUSE briefly.

"Overwrite?" will appear

recording stand-by mode

"Overwrite?" appears,

The OPR indicator will turn

in red. An add or overwrite

3 Press ■STOP to stop the recording

Recording with an External

Microphone or Other Equipment

Recording with an external microphone

Connect an external microphone to the 🔨 (microphone)

When you connect an external microphone, the built-in

microphone is automatically cut off. When a plug in

automatically supplied to the microphone from the IC

mini-plug

To the 🔨

(microphone) jack

(stereo)

power type microphone is connected, power is

recording starts.

recorder.

External Stereo

nicrophone (ne

supplied)

press **OII**REC/PAUSE

and the unit stops in the

2 While the "Add REC?" or

You can add an overwrite recording after the selected

point in a recorded message. The part of the message

Message 4

Message 3 Message 4

Message 4

Added recording

Message 4

∕____ f Message 3

The deleted part

Add REC?

05 y 10m 15d 13:2

□ 005/045

0:07:28

Add REC

• The added or overwritten portion of a message will be

Adding a Recording to a

back

Notes

"Overwrite'

"Troubleshooting

mode setting

During

playback of

After adding

Message 3

Message 3

a recording

Message 3

To record sound of other equipment with the IC recorder, connect the ***** (microphone) jack of the IC recorder to the earphone jack of other equipment (tape recorder etc.) by using a resistance audio connecting cable. Before you start recording, set the microphone sensitivity by setting the "Mic Sense" in the menu to "High"

If you use an audio connecting cable without a resistor, sound may be recorded interrupted. Make sure to use a resistance

W Recommended types of microphones

You can use the ECM-CS10 Sony electret condense

audio connecting cable. **Recording with other equipment**

To record the sound of the IC recorder with othe



• Do not insert or remove the "Memory Stick" while a message of the built-in memory is recorded or played back. oing 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. If

When you insert the "Memory Stick" for the first

been formatted at the factory, you do not need to format a

System requirements

ur computer and system software must meet the following minimum requirements 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 more

 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.) Notes 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 compute with multi-boot operating environment are not supported

Other Information

Precautions



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

On system limitations of the IC

computer, etc.

recorde

To avoid potential risk of data loss caused by optional accessories. Please ask the dealer for detailed accidental operation or malfunction of the IC informatior recorder, we recommend that you save a backup copy Design and specifications are subject to change without of your recorded messages on a tape recorder or to a notice

Specifications

• ST:

• LP:

• ST:

• SP

• LP:

350 mW

Speaker approx. 2.8 cm $(1^{1}/_{8} \text{ in.})$ dia

USB connector

• DC IN 3V jack

+100% to -50%

Playback speed control (DPC)

controls)

96 g (3.4 oz)

Power requiremen

DC

Mass (including batteries

Supplied accessories

Optional accessorie

Built-in flash memory 32MB/"Memory Stick

Approx. 4 hours 20 minutes

Approx. 11 hours 45 minutes

Duo", Stereo/Monaural recording

1 hours 25 minutes

60 Hz - 13,500 Hz

60 Hz - 7,000 Hz

• Microphone jack (minijack, stereo)

impedance microphone

• "Memory Stick Duo" slot

Headphones jack (minijack, stereo)

level 0.6 mV, 3 kilohms or lower

- output for 8 - 300 ohms headphones

Two LR03 (size AAA) alkaline batteries: 3 V

 $36.6 \times 107.5 \times 16.9 \text{ mm} (1^{1}/_{2} \times 4^{1}/_{4} \times 1^{1}/_{16} \text{ in.})$

Operating instructions (For the IC recorder

Stereo headphones (1) (excluding Europe

(1)/For the application software (1))

Application Software (CD-ROM) (1)

LR03 (size AAA) alkaline batteries (2)

Dragon NaturallySpeaking® Preferred

ICD-MX20VTP sold in the USA

(Version 8.0) CD-ROM(1) supplied only with

Active speaker SRS-T88, SRS-T80/Electret

Audio connecting cable RK-G134HG, RK-

(excluding Europe)/AC power adaptor AC-

E30HG (excluding the models for Korea, the

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-M1GST (1 GB)/

High Speed "Memory Stick PRO Duo" MSX

M1GN (1 GB), MSX-M2GN (2 GB) /PC Card

Adaptor for Memory Stick MSAC-PC3

Your dealer may not handle some of the above listed

M256N (256 MB), MSX-M512N (512 MB), MSX-

People's Republic of China, Australia, and

G135HG, RK-G136HG, RK-G139HG

condenser microphone ECM-CS10, ECM-TL1/

USB connecting cable (1)

Carrying pouch (1)

Dimensions (w/h/d) (not including projecting parts and

input for plug in power, minimum input

60 Hz - 3,500 Hz

• STLP: 60 Hz - 7,000 Hz

• STLP: Approx. 2 hours 45 minutes

Recording media

Recording time

Frequency rang

Power output

Input/Output

Trademarks

other countries

countries

shown below:

Microsoft® DirectX®

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The "Digital Voice Editor" uses software modules as

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Apple and Macintosh are trademarks of Apple

There are some system limitations of the unit. Troubles as mentioned below are not malfunctions of the unit. Corporation • "Memory Stick Duo" and MEMORY STICK DUD are

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 LP mode recording time. There may be other formatted data (for example

images) in the memory 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

shorter than the maximum recording time of the IC recorder. • The maximum recording time varies depending on the

number of folders or messages Pentium is a registered trademark of Intel Corporation. No more recording can be made when 999 messages each have been recorded in a folder.

 Due to the limitation of the IC recording system 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

• 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 checks, consult your nearest Sony dealer.

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

and time previously set on another message. Change

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

message. You cannot play back or edit the file.

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

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

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

IC recorder is connected. Make sure to use the AC

• Batteries are weak. Replace batteries with new ones.

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

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

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

• The IC recorder failed in memory access because the

memory is corrupted or a system error occurred.

alarm at an appropriate date and time.

Please format with the unit.

folder, vou cannot add a message. Erase some

messages before adding or dividing a message.

Alarm already set for the same time.

erase a message or format the memory.

• If you divide messages frequently, the unit may

You cannot divide a message.

become unable to divide a message.

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.

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may cause malfunction of the unit

time (initializing the memory)

1 Press ◀ (MENU), and

Tip

itself. As the number of messages or folders increase, the remaining memory reduces accordingly To record a message or add a folder, you need the time of the minimum recording unit. Although the actual recording time of a message may be less than that of the minimum recording unit, the time of the message is counted as a minimum recording unit.

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 Stick'

The minimum recording unit in each recording

mode			
ST	8 seconds		
STLP	8 seconds		
SP	8 seconds		
ID	22 seconds		

Other Operations

Formatting the Memory

You can format the built-in memory and a "Memory Stick Duo" or "Memory Stick PRO Duo" inserted in the MEMORY STICK slot. Formatting will delete all the data recorded in the memory including images and other data.

Before formatting, check the data in the memory Because a commercially available "Memory Stick" has already

protect position, you cannot record, edit, or delete the data. (Some types of "Memory Stick Duo" are not equipped with write-protect switch.) Connector i B S Write-protect

Place the label here · Avoid removing the "Memory Stick" from the unit while the unit is reading or writing data. Data may be damaged in such occasions: · While the unit is reading or writing data, the "Memory Stick" is removed or the batteries are

"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.

of data except for the one that requires the

"MagicGate" copyright protection technology

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

"Memory Stick" (MagicGate/High-Speed Transfer

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

Speed Transfer Compatible) employs "MagicGate

speed data transfer. It can be used with all the

device.)

technology

switch

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

cannot save or delete its data

Stick " employs the "MagicGate" copyright protection

removed. Or the AC power adaptor (not supplied) is removed. - The "Memory Stick" is used in a location subject to electrostatic or electronic noises.

We recommend that you save backup of the important



t, 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 guickly the point you wish to start playback (Easy Search)

You can quickly locate the point you wish to start playback by pressing \blacktriangle ($\blacktriangleright \frown$)/ \blacktriangledown ($\blacktriangleright \frown$) 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

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

pressing ▲/▼ (I◄◄ / ►►I).

Playing back a message repeatedly — Repeat Play

Repeating a message



To resume normal playback

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

1	During playback, press A-B (repeat) briefly. The starting point (A) of the section you wish to play repeatedly is set. "A-B B?" appears.	C 005/045 0:07:28 A−B B? C A+ D D AB		
2	During playback, press A-B (repeat) briefly again. The finishing point (B) of the section is set. "A-B Repeat" is displayed and the specified section is played back repeatedly.	○ 005/045 0:07:28 A-B Repeat ○/H BIE AB		
	resume normal playback ss ►■.			
	stop A-B Repeat playback ss ∎STOP.			
• Y m • If is	NotesYou cannot set A-B Repeat for a section that overlaps two or more messages.If you do not set the finishing point (B), the finishing point is automatically set at the end (or the beginning) of the message.			

05y10m15d 13:26 setting is displayed in one message view 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

Alarm

Beep

■Beep&Play

005/04500

0:00:00

Select "OFF" in the steps ③-2, and then press ►■.

• If the alarm time comes while another message is being played back with an alarm, the playback stops and the new message 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

Notes

Press \blacktriangle or \blacktriangledown to select the

alarm sound either from

"Beep&Play" (for starting

6 Press ►∎.

menu mode.

playback after the alarm) or

'Beep" (for only the alarm).

The alarm setting is completed.

Press STOP to exit the

"(•)" is displayed when the

message having an alarm

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 10 seconds after the erasing is finished and playback begins. Alarm setting will not be cancelled after the alarm playback finishes. To cancel alarm setting, set "Alarm" to "OFF".

► 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



1 Display the message you □ 003/010 want to erase. 0:00:00

05y10m10d 10:30 2 Press ◄ (MENU), and Erase a MSG select 🃺 (Erase) by pressing \blacktriangle / ∇ , and then EraseFolder press ► 🔳. The cursor moves to the Erase menu **3** Press **▲**/**▼** to select "Erase a MSG" and press



No 5 Press ▲/▼ to select "Yes" and press ►∎. The message is erased.

Erasing



DIVIDE at the point you want to divide.

The new message number is

the button, and "New MSG

REC" appears for 3 seconds

messages will be recorded

into two; however, the

without a break.

🐨 Tip

The message will be divided

Message 1 Message 2 Message 3

You can divide a message during recording pa

A message is divided.

added at the point you pressed

• When you press DIVIDE during recording:

Message 1 Message 2 Message 3 Message 4

To play the divided message Press \blacktriangle or \blacktriangledown 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.

1 Display the message you □ 003/008 want to move.



The cursor moves to the Edit Alarm menu

3 Press ▲/▼ to select "Move Priority MSG" and press ►■. The window for selecting the destination folder is displayed.

4 Press $\blacktriangle/\blacksquare$ to select the folder to which you want to move the message to and press ►∎. The window for moving the message is displayed. The message is played back from the beginning. Execute?

> and press ►∎. The message is moved to the destination folder. Messages are sorted in order of the recorded date and time.

menu mode. 05y10m10d 15:10

You cannot move a message to the other drive.



EraseAllMSG







□ 003/003

New MSG REC

- **1**

→ Recording continues

0:07:28

 \checkmark A message is divided.

The message numbers increase.



3 Press ▲/▼ to select "Erase Example: Moving Message 3 in FOLDER01 to FOLDER03 4 Press ▲/▼ to select

0:00:00

2 Press ◄ (MENU), and select ⊘ (Edit) by pressing Priority ▲/▼, and then press ►■.

None]

Move MSG **a** Alarm lee:

Move MSG 🗂 FOLDER01 FOLDER02 🛱 FOLDER03 Move MSG

5 Press ▲/▼ to select "Yes" Yes No

0**02/**002 6 Press ■STOP to exit the 0:00:00

Note









pressing \blacktriangle/∇ , and then press **>**. The cursor moves to the Edit **3** Press **▲**/**▼** to select "Edit



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

"ACCESS" appears in the display window

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

message disappears. 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. 2GB 92 h. 10 m. 177 h. 25 m. 280 h. 50 m. 749 h. 5 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

Note 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 onditions. 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 "Memory Stick" with a logo MEMORY STICK DUD or a logo MEMORY STICK PRO DUD Even with either of the logos, however, some "Memory Stick" cannot be used with the unit. For details, see the Sony product information "Memory Stick" web site.

About the "Memory Stick"

What is "Memory Stick"?

"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.

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 PRO Duo" (compact size "Memory Stick Duo").

Types of "Memory Stick"

Following types of "Memory Stick" are available for versatile purposes. "Memory Stick Duo" and "Memory Stick PRO Duo" are the only media supported by ICD-MX20. "Memory Stick PRO" : "Memory Stick PRO" employs the "MagicGate" copyright protection technology and can be used only with "Memory Stick PRO" compliant devices.

🛃 EraseAl IMSG select 🃺 (Erase) by EraseFolde pressing \blacktriangle / ∇ , and then 省 Format press ► 🔳. The cursor moves to the ·**D**: Erase menu. 2 Press ▲/▼ to select Format "Format" and press ►■. Built-in The window for selecting the MemoryStick memory to be formatted is æ. displayed. -----When the "Memory Stick" is not inserted, this window does

not appear. Skip to step 4. **3** Press **▲**/**▼** to select the Format media ("Built-In" or "Memory Stick") that you lBuilt−ir want to format and press Execute Cancel The window for executing format is displayed.



----5 Press ▲/▼ to select "Yes" and press ►∎. =ormat 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.

No

To cancel formatting Select "Cancel" in step $\overline{4}$ or "NO" in step 5.

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

· Saving the IC recorder messages on your computer's

Transferring the PC messages back to the IC recorder

Playing or editing the messages on your computer.

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

Transcribing your IC recorder message using Dragon

For the details, see the supplied "Digital Voice Editor 2"

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

ecognized as a removable disk. You can use Windows

To set the clock of the unit automatically

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

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

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

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

however, please make sure to use the supplied Digital Voice

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

To USB connector

PC

∥]¥

NaturallySpeaking® speech-recognition software (not

Using the "Digital Voice Editor' Software

hard disk.

software.

supplied).

Connection

IC Recorder

software operating instructions

To USB

he IC recorder with your PC.

connector

(supplied)

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