Visual IC Recorder

Operating Instructions

The model number is located at the rear and the serial number is located on the side panel of the unit. Record the serial number in the space provided below. Refer to these number whenever you call upon your Sony dealer regarding this product. Model No. ICD-CX50 Serial No. ____

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IC Recorder

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ICD-CX50



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The "Visual and Voice Editor" uses software modules as

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Before taking the unit for repair, check the following

sections. Should any problem persists after you have

made these checks, consult your nearest Sony dealer

· The buttons are locked while the lens mount is in the

HOLD position. (If you press any button, "HOLD"

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.

Unplug the headphones and then insert them securely

· The memory is full. Erase some of the messages. Or use

• 99 messages have already been recorded in the selected

• You cannot shot an image when the lens mount is not

set to "Camera on (Open)" or "Camera on (Self)"

You cannot add a post-recording to an message.

· The message already has recorded sound. You can

add a post-recording to a message without recorded

Recording is interrupted (when recording from an

may be recorded interrupted. Make sure to use a

folder. Select another folder or erase some of the

the Visual and Voice Editor to save the IC recorder

• The battery has run out. Charge the battery.

United States and/or other countries.

in each case in this manual.

Troubleshooting

The unit does not operate.

will appear for 3 seconds.)

No sound comes from the speaker

The volume is turned down completely

messages to the hard disk of your PC.

The headphones are plugged in.

headphones are plugged in.

You cannot start recording.

You cannot shoot an image.

external device).

The remaining memory is too short.

resistance audio connecting cable.

shown below

Microsoft® DirectX®

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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 echnician for help. You are cautioned that any changes or modifications not

expressly approved in this manual could void your authority to operate this equipment If you have any questions about this product, you may call: Sony Customer Information Services Center 1-800-222-7669 or http://www.sony.com/

Declaration of Conformit Trade Name:

ICD-CX50 Responsible Party: Sony Electronics Inc. 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 received, including interference that may cause

For the customers in the USA and **RECYCLING LITHIUM-ION BATTERIES** Lithium-Ion batteries are recyclable.



undesired operation.

our used rechargeable batteries to the collection and recycling location nearest you. For more information regarding recycling of rechargeable atteries, call toll free 1-800-822-8837, or visit

Caution: Do not handle damaged or leaking Lithium-Ion

Disposal of Old Electrical & Electronic Equipment (Applicable in the European

Union and other European countries with separate collection systems) This symbol on the product or on its packaging indicates



Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential the environment and humar health, which could

that this product shall not be

treated as household waste.

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 city office, your household waste disposal service or the shop where you purchased the

Applicable Accessories: Stereo headphones 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).

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The software described herein may also be governed by the terms of a separate user license agreement. • This software is for Windows and cannot be used for

• The supplied connecting cable is for the IC recorders ICD-CX50. You cannot connect other IC recorders.

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make a trial recording to make sure that the IC recorder is working correctly. Contents of the recording cannot be compensated for if recording or playback is not possible due to a

Before you record one-time events, you may want to

malfunction of your IC recorder. Duplication, edition, or transmission of a CD, TV programs, copyrighted materials such as pictures or publications, or any other materials except for your own recording or creation is limited to private or domestic use only. Unless you hold copyright or have permission of copyright holders for the materials to be duplicated, use of those materials

copyright law and be subject to the copyright holder's claim for damages. When using photo images with this IC recorder, pay special attention not to infringe the provisions of the copyright law. Any unauthorized use or odification of others' portrait may also infringe

beyond this limit may infringe the provisions of the

their rights. For some demonstrations, performance or exhibits, photography may be forbidden.

To avoid potential risk of data loss caused by accidental operation or malfunction of the IC recorder, make sure to save a backup copy of your recorded messages including sound and images on your PC using the supplied Visual and Voice Editor software.

VOICE

Start recording

sound of a

While recording sound as a message, you can shoot an image at the desired point. The shot image is recorded and added as a bookmark to the message. For example, when you record an important meeting, you can shoot an image

as a reminder of the important topic as follows: Bookmark bookmark

A message with bookmarks Shoot an image of the Shoot an image of the speaker presenting an Later, you can search between the bookmarks to locate the specific point in the message. A bookmark can also be used as the title image of the message which

is displayed in the message list or a reminder of the contents of the message. Three types of messages that you can record with the IC recorder Shooting images while recording sound – Message with bookmarks You can shoot images while recording sound as a message. The recorded message contains both sound and image(s) (bookmarks). Those messages are called a "message with bookmarks". (See "Recording a Message with

 Recording sound only – Message without bookmark You can also record sound only, which is called "message withou bookmark". You can add images later as bookmarks. (See the reverse side.)

 Shooting an image only – Picture message You can also shoot an image without recording sound. The recorded message contains an image only, which is called "picture message". You can add sound later. (See the reverse side.)

A variety of editing and playback features: Recording sound to a picture message

– Post-recording You can add sound to a previously shot image (picture message), which is called "Post-recording

· Shooting images while playing back sound - Adding bookmarks to a While playing back sound of a message, you can shoot an image and add it

as a bookmark. You can also erase a bookmark from an message. Playing back sound of a message

 Displaying bookmarks while playing back sound The bookmarks are displayed while the message sound is played back. You can select a specific bookmark and display in full-screen size. You can also repeat or erase the section between the two bookmarks, search for a specific point by locating bookmarks. (See "Playing Back and

Connecting the IC recorder to the PC

You can connect your IC recorder to the PC and use the Visual and Voice Editor supplied to display, play, save, and edit messages

adaptor to the DC IN 6V jack of the unit and to the wall outlet

The CHG (charge) lamp lights in red and the unit starts charging the battery. When the lamp turns off, the charging is completed.

purchase, or when the unit has been out of battery for a certain period of time, "Set Date&Time" appears. Please refer "Step 2: Setting the Clock" to set the date and time

"Battery Low" appears. Charge battery. : "Charge Battery" appears and the unit will stop operation.

^ *		Charge battery
Batter	уI	ife*
Record	ling	g mode:
In cont	inu	ous sound recor

to connect the sound source to the IC recorder, sound

• If you open or close the display cover during

recording, noise of opening or closing may be recorded • 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. · When an image is shot, sound may be interrupted

because of rubbed or operation sound. Use of the electret condenser microphone ECM-CS10 (not supplied) may improve the condition. Recording level is low. If it is difficult to hear small sound of a recorded

message, slide the V-UP (Digital 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. Display the "DPC" in the menu and select it to

"y--m--d" or "--:-" is displayed. • You have not set the clock. Display the "Date&Time" in the menu and set the clock.

 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 unit is in recording or playback mode. A character in a folder or message name is displayed in blank.

• The unit cannot support and display some characters which are entered using the supplied "Visual and The remaining time displayed in the display

window is shorter than that displayed in the supplied "Visual and 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. 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 ximum ST mode recording time to the maximum LP mode recording time.

• There may be other formatted data 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

• If the length of each message cannot be divided by the minimum recording unit, the remaining recording time may decrease by more than the total length of the

 No more recording can be made when 99 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

the IC recorder. The battery life is short.

• The battery life mentioned in "Step 1: Charging the Builtin Battery" is based on playback through interna speaker with the medium volume level. The battery life may shorten depending on the operation of the

CHG (charge) lamp flashes in red and you cannot charge the battery. · You are trying to charge the battery in a temperature exceeding the range suitable for charging the battery Charge the battery within the temperature range of 5°C

to 35°C (41°F to 95°F). "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. · Push in the RESET button to reset the system You cannot connect the unit to the PC. Refer to the "Visual and Voice Editor" operating

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

▶Before you begin What is the Visual IC recorder?

What you can do with the Visual IC Recorder and its camera function?

pictures from the lens on the display window. This mode is called "Live View". To load the live view in the display window, do the following: 1 Rotate the lens mount to the "Camera on (Open/Self)

> 2 Open the display cover **3** Do either of the following • Press (camera). $\bullet Press\ CAPTURE.$ The Live View mode is activated and you can shoot an image by pressing CAPTURE

What is "Live View"? -

To use the camera function, you

need to activate the camera lens

ready for shooting and display live

Loading the camera

▶Basic Operations

bookmarks to a message.

REC/PLAY indicator

(lights in red during recording.)

maximum of 1.000 messages in all folders.

Recording a Message with Images

Newly recorded message

① Rotate the lens mount to "●" (HOLD off/

Camera off) position until it clicks into

Slide open the cover to display the whole

When you do not press any key or button for

approximately 15 seconds, the display will

be turned off. To turn it on, press any key.

You can shoot an image as a bookmark while recording sound as a new

message- Message with bookmarks. You can add the maximum of 99

You can record the maximum of 99 messages in each folder of the initially 5

folders (FOLDER01 to FOLDER05). When you add new message folders by

recorded message, you can start recording quickly without searching for the

Release the HOLD function

and open the display cover.

LCD display window.

ST • 000/0

1) Press REC/PAUSE during the stop

maining memory indication

PAUSE while recording

Message icon

Load the Live View in the

live view from the lens.

ST 001/002 0:07:80

When you do not operate the unit for

activated, the live view mode will quit.

Shoot an image (bookmark).

Adjust zoom scaling

Press CAPTURE.

message.

Stop recording a message.

Press ■ (stop)

image during recording pause.

Recording resumes from that point.

message just recorded.

▶►: Zoom in (up to x4).

◄: Zoom out (down to x1).

approximately 30 seconds after the live view is

(If live view is not displayed, press this button to

The image shown on the display window will be

Recording stops at the beginning of the

During recording pause, the REC/PLAY indicator

Press ■ (stop) to stop recording, then press ►II.

and the counter indication flashes. You can shoot an

The first bookmark shot is displayed in the

recorded as a bookmark. You can add the

maximum of 99 images as bookmarks to a

Picture size indicator

Zoom scaling indicato

display window.

Remaining battery indication

2 Speak to the built-in microphone

You do not need to keep pressing REC,

Recording mode Remaining time

Counter display*

* The display selected with the "Display" in the

Rotate the lens mount further than "●HOLD off/

Camera off" position until it clicks into place at

the next position ("Camera on (Open)" position).

The camera is activated and the display shows the

indication

Current message

messages in the

number/Number of

Start recording sound.

using the supplied Visual and Voice Editor software, you can record the

Since a newly recorded message is automatically added behind the last

Message 1 Message 2 Blank space

Maximum recording time *

the folders is as follows. You can

record messages for the maximum

ecording sound only.)

**Recording modes:

The maximum recording time of all

recording time in a single folder. (In

Approx. 11 hr. 30 min.

Approx. 22 hr. 5 min.

Approx. 93 hr. 30 min.

Approx. 35 hr

(hr.: hours/min.: minutes)

mode/STLP: Long play stereo

monaural recording mode/LP:

Long play monaural recording

For how to select the recording mode

· To record in better sound quality

Before making a long recording, be

varies if you use multiple recording

select the ST or STLP mode.

The maximum recording time

modes for recording multiple

• You cannot record through the

built-in microphone if you co

Without selecting a folder, a new

message will be recorded in the

Monitoring the recording

When recording from the built-ir

supplied or not supplied to the

recording from the connected

volume with VOL +/- but the

recording level is fixed.

microphone, you connect headpho

(headphones) jack and monitor the

If you turn up the volume excessivel

or place the headphones near the

recording, the microphone may picl

up the sound from the headphones,

causing acoustic feedback (howling

You can press ►►I/I< during live

the digital zoom process. For the

view and zoom in on an image using

details, see "Using the Digital Zoom

Shooting close-ups - Macro

For close-ups of small subjects, you

can slide the Macro switch to "\"

(macro) position and shoot a close-u

For the details, see "Shooting Close-

ups - Macro" on the reverse side

Shooting yourself- Self

Rotate the lens mount to show

window. For the details, see

Position" on the reverse side.

Release the HOLD function by

Recording sound only

without bookmark

off/Camera off" position

11 @ 1 101

Then press REC/PAUSE to start

You can record a message without

the lens mount further to the

"Camera on" position.

opening the display cover or rotating

If the memory becomes full, use the

USB cable to connect the unit with the

 $\ensuremath{\mathsf{PC}}$, and use the supplied Visual and

messages onto the PC hard disk. You

can erase unnecessary messages and

Voice Editor software to save a

backup copy of the IC recorder

spare empty memory space.

yourself in the live view display

"Shooting For Your Own View-Self

rotating the lens mount to "OHOLD

microphone while monitoring

Using the digital zoom

current folder. You can also select the

folder where you record a message

For the details, see "Searching for a

Bookmark, Message or Folder" on the

(microphone) connector.

Selecting a folder

reverse side.

an external microphone to the

To select the recording mode

see "Operating the Menu".

Notes before recording

ST: Standard play stereo recording

recording mode /SP: Standard play

Displaying a Message".)

▶Getting started

Step 1: Charging the Built-in Battery

ST STLP SP LP

adaptor (supplied)

Connect the supplied AC power

30 minutes o fully charge the builtin battery.)

To DC IN 6V (Usually it takes about 2 hours and jack When you use the unit for the first time after

Battery remain indicator The battery indicator on the display window shows the battery condition:

rding: 10h.30m. 13h. 11h.30m. 14hr.

In continuous sound playback**: 9h.30m. 10 h. 11 h. 12 hr. The battery life may shorten depending on the operation of the unit. When playing back through the internal speaker with the medium volume level Use the AC power adaptor supplied with the unit only. If you use any other AC power adaptor, the unit may be damaged. If you try to charge the unit when the unit is fully charged, the CHG (charge) lamp will turn off soon.

its default settings. Notes while "ACCESS" appears · While "ACCESS" appears or the REC/PLAY lamp lights or flashes do not remove the AC power adaptor or USB connecting cable The unit is accessing data while "ACCESS" appears in the display

When you do not use the unit for an

extended period of time, charge the

battery. The clock may be reset to

window. While accessing, you nnot operate the unit. • 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

On the standby mode If you do not operate any keys or automatically turns off and the uni enters into the standby mode. To wake up the unit, press any key or button to start operation.

Note on setting the clock

check the current time:

stop mode

Set the clock while the unit is in the

To display the clock setting

window and current time

You can display the clock setting

1 Press MENU for more than one

2 Press **▲/▼** to select "Date&Time

right bottom of the display

The current time is displayed in the

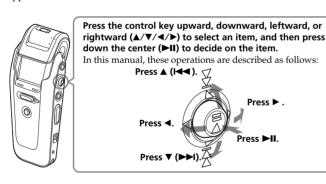
Menu

second to display the menu.

window to set the date and time o

Step 2: Setting the Clock

You need to set the clock to record the date and time with recording and shooting. When you use the unit for the first time after purchase, or when the unit has been out of battery for a certain period of time, "Set Date&Time" appears. Release the HOLD function and set the date and time as follows:

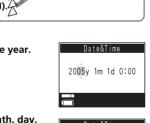


1 Press **▲**/**▼** to select the digits for the year. ▲: to decrease the number ▼: to increase the number

2 Press ►II. 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 ◀ for the previous item or ▶ for the next If you do not press ►II for more than one minute, the

clock setting mode is cancelled and the window will return to normal display. 4 Press ■ (stop) to return to the normal

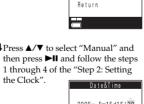


2005y 5m15d15:30

ST • 000/00

4Press **▲/▼** to select "Manual" and 1 through 4 of the "Step 2: Setting 2005y 5m15d15:30

3 To set the clock, press ►II to display the "Date&Time" window



When you select "Auto" for "Date&Time" When you connect the unit to the

PC after the Visual and Voice

Editor is started, the clock of the

to the internal clock of your PC.

unit is automatically set according

Playing Back and displaying Messages

You can play back a message you have just finished recording as follows:

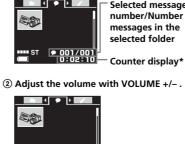
 * About 10 minutes after you pause recording, recording pause is automatically released and the unit goes into the stop mode.

Do this



listen to the current

 Press ►II. the beginning of the last message in the



* The display selected with the "Counter" in the menu appears.

message to be played back: 1 In the folder list, select the folder where the desired message is saved. For how to select the folder in the

Selecting a message to be

You can select the folder and the

folder list, see "Searching for a

Bookmark, Message or Folder" on

2 In the message list, press **△** or **▼** to

Switching the message list

In the message list, title images

current folder is displayed.

(bookmarks) of the messages in the

In the bookmark list, bookmarks is

the current message is displayed

You can search for a message o

bookmark by pressing ∇ or \triangle .

played back

the reverse side

and bookmark list

Press ▶ or ◀.

The unit plays back all the messages in the current folder continuously. Then it stops at Selected message

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

Searching forward/backward during playback (Cue/Review • To search forward (cue): Keep pressed during playback and release the key at the point you

Keep ▲ pressed during playback and release the key at the point you wish to resume playback. If you keep ♥ or ▲ pressed, the unit starts to search at higher speed. During cue/review, the elapse tim will be displayed, regardless of the display "Counter" setting in the

Display a full-screen image.

During playback of a message, you can display a full-screen image from the message list or bookmark list.



· When you press DISPLAY in the message list, the title image (bookmark) of the current message is displayed in fullscreen. When you press DISPLAY in the bookmark list, the current bookmark is displayed in full-screen.

To return to the message or bookmark list

press DISPLAY again.

Stop playing a message. Playback stops. To resume playback from that point, press ►II.

Do this
Press ►II. During playback pause, the REC/PLAY indicator and the counter indication flashes. To resume playback from that point, press ►II again.
Press ▲ (I◀◀) once.*
Press ▼ (▶►) once.*
Press ▲ (I◀◀) or ▼ (▶▶I) repeatedly. (During stop mode, keep the key pressed to skip the messages

Operating the Menu

* About 10 minutes after you pause playback, playback pause is automatically

released and the unit goes into the stop mode.

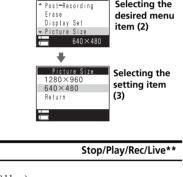
During stop, playback or recording, you can use the menu to change the operation modes in playback and recording, display mode, or other settings. Display the menu and change the settings as follows:

_		
	То	Do this
1	enter the menu mode.	Press MENU for more than one second.
2	select the desired menu item.	Press ▲/▼ and press ►II .
	go back to the previous step.	Press ▲/▼ to select "Return" and press ►II. (If "Return" does not appear, press ◀.)
3	select the setting item.	Press ▲/▼ and press ►II .
4	exit the menu mode.	Press ■ (stop) or press ▲/▼ to select "Menu End" and press ►II.

If you do not press the key or button for one minute, the menu mode is automatically cancelled and the window will return to normal display

You can set the recording mode (bit rate):

Menu items Settings (*: Initial setting)



How the display changes in

Entering the

OK/OK/OK/OK

OK/-/-/-

OK/OK/-/-

menu operation

REC MOde	ST*: STLP: SP:	You can record with high-quality stereo sound. (48 kbps) You can record with stereo sound for longer time. (24 kbps) You can record with better sound (monaural sound). (16 kbps)	OK/-/-/-
	LP:	You can record for longer time (monaural sound). (6 kbps)	
Post-recording	Displays th	ne window to start post-recording of voice to a picture message.	OK/-/-/-
Erase	Displays th	ne menu to erase messages:	
	Message:	You can erase a message by selecting it in the message list.	OK/OK/-/-
	All in Folder	: You can erase all the messages in the current folder.	OK/-/-/-
	Bookmark:	You can display the bookmarks of the currently selected message and select and erase a bookmark. $ \\$	OK/OK/-/-
	Section:	You can select a bookmark and erase the section between the selected bookmark and the next bookmark. You can also select which bookmark among the two will remain.	OK/OK/-/-
Display Set	You can ch window:	ange the display settings (Counter/Title Image/Backlight) on the display	

Counter: You can select the display mode on the display window. (See "Changing

(Elapse Time*/Remaining Time/REC Date/REC Time)

the Counter Display" on the reverse side.)

Title Image: You can change a bookmark for the title image to be displayed in OK/-/-/the message list Backlight: You can turn on or off the backlight on the display window during OK/OK/OK/OK ON*: The backlight on the display window lights during operation. You can select the picture size in which an image is recorded: 1280 x 960*: Images will be recorded in 1280 x 960 pixels. You can record an image in OK/OK/OK/OK better picture quality

640 x 480: Images will be recorded in 640 x 480 pixels. You can record a larger number You can enable DPC (Digital Pitch Control) playback and Bookmark Repeat playback. You can set the playback speed: OFF*: Messages will be played back at normal speed ON: Messages will be played back at the specified speed. You can adjust OK/OK/-/the speed of the playback between twice the normal speed (+100%)

and half the normal speed (-50%)

Bookmark You can turn on or off the bookmark repeat playback

Folder Settings You can change the icon and name of the currently selected folder.

You can turn on or off the beep.

Folder Icon: You can change the folder icon from the templates

Live: live view): "OK" shows the setting can be changed and "-" shows the setting cannot be changed.

Folder Name: You can change the folder name from the templates

You can erase all the data in the memory and resets it to the initial status

Repeat: ON: When you start playback, the section between the two bookmarks will be played back repeatedly. OFF*: When you start playback, normal playback of the selected message starts. The unit plays back from the selected message to the last message in the current folder continuousl You can set the clock manually or automatically: If the unit is connected to a PC while the supplied Visual and Voice Editor is

perating, the clock is automatically set according to the PC internal clock. OK/-/-/-Displays the window to set the clock manually (05/1/1/0:00*). (See "Step 2: Setting the Clock".) USB Batt Charge You can set the unit to be charged from the connected PC via the USB connection When the unit is connected to the PC, the internal battery will be charged via the USB connector. The battery will be charged only when the AC power adaptor is connected to the DC IN jack.

A beep will sound to indicate that operation has been accepted.

**Displays whether you can change the setting in each operation mode (Stop: stop mode/Play: playback mode/Rec: recording mode/

No beep sound will be heard except for the alarm for illegal operations

Index to Parts and Controls by amplifying inaudible sound-Digital Voice Up Slide the V-UP (Digital Voice Up)

Adjusting the playback sound

switch to "ON", so that low-level par

of a recorded message is amplified.

voices more easily. By adjusting the

evel, you can make playback sound

Depending on the area you purchased

the unit, the Digital Voice Up switch

ou can enjoy better sound quality as

• To listen from headphones: Connect

the stereo headphones (supplied or

not supplied) to the Ω (headphones

jack. The built-in speaker will be

To listen from an external speaker

speaker (not supplied) to the Ω

Connect an active or passive

(headphones) jack.

Listening in better sound

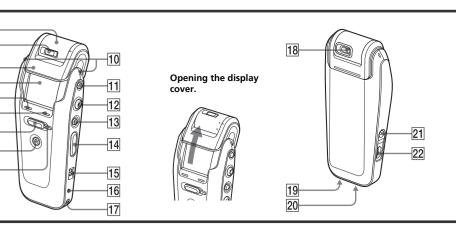
follows:

allowing you to hear even small

overall recording to its optimum

well-balanced and more audible.

Identifying the front and rear panels of the unit



1 Lens mount (HOLD on/off, Camera on/off camera self mode)

To cancel the HOLD function

You can set the unit to the following modes as you rotate the lens mount to the following position: **HOLD on**: When you rotate the lens mount to 'HOLD", "HOLD" will appear for 3 seconds and then the display will be turned off.

• During recording and playback: recording or

playback continues but the functions of the buttons are locked. The live view mode, if activated, will be turned off. • During stop: The unit enters into the standby

Rotate the lens mount to select other position ● HOLD off/Camera off: When you rotate the lens

mount to the "O" position, you can record a message but cannot shoot an image. If the lens mount is turned from the HOLD position, HOLD Camera on (Open): Rotate the lens mount further than "OHOLD off/Camera off" position and to the next position it clicks into place. This position

manual where the camera is activated. You can turn on the live view mode. Camera on (Self): Rotate the lens mount further than "Camera on (Open)" position until it clicks into place. The lens faces towards you. This position is called "Camera on (Self)" position You

can turn on the live view and can shoot your self

is called "Camera on (Open)" position in this

2 Macro switch (off/ on) You can turn on or off the macro feature when you shoot an image in the live-view mode. on: Turns on the macro feature for shooting close-

off: Turns off the macro feature 3 Display cover When the LCD cover is open: You can view the LCD display in full-screen. You can also activate the live view mode to shoot an image.

When the LCD cover is close: You cannot activate

the live view mode or display the menu.

Display window (with built-in speaker) For the details, see "Using the display window" 17 Slit for a handstrap below. The built-in speaker outputs sound when no headphones or active speaker are connected 18 Camera lens When the display window is contaminated, use the

CHG (Charge) lamp Lights in red when the built-in battery is being REC (record)/PLAY indicator

The indicator lights in red during recording or in

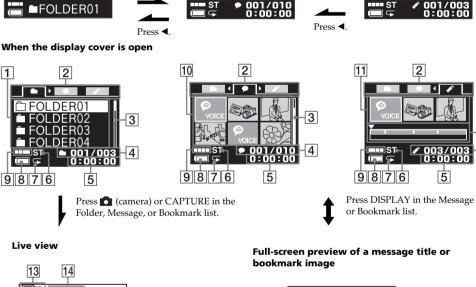
Press to shoot an image. If the live view is not

inner cloth of the carrying pouch supplied or a soft

cloth such as glasses cleaning cloth to wipe the

green during playback. It flashes in red during ecording pause. During accessing the data, it flashes 21 DC IN 6V jack in red or orange CAPTURE button

charging.



1 Folder list

Displays the icons and names of the folders. 2 Screen tabs (: Folder/: Message/:: Bookmark) Screen tabs for the Folder list, Message list, and

Displays the current location of the displayed nessages in the folder. Selected message number in the selected

Counter indication "Display Set" in the menu appears (Elapse Time/ Remaining Time/REC Date/REC Time). For how to

Counter Display" on the reverse side. 6 Recording mode indication Displays the current recording mode specified with

 STLP: Long play stereo recording mode SP: Standard play monaural recording mode LP: Long play monaural recording mode 7 Repeat play indicator

8 Remaining battery indicator Displays the remaining battery volume. When the AC power adaptor (supplied) is connected, the indicator does not appear.

Displays the remaining memory During recording, the indicator decreases one by

minutes, the indicator flashes. The remaining



erase some of the messages.

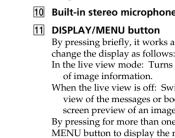


image.

12 Control key √ | Cinc | Folder | Message | F: Bookmark | F: Bookma

15 V-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

pplied here. You can adjust the volume with VOL +/- 14, but the recording level is fixed. 20 🔨 (microphone) jack (PLUG IN POWER) You can connect an external microphone here. When

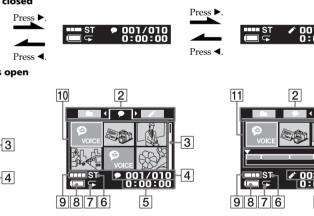
microphone, connect headphones supplied or no

22 USB connector

Using the display window

Folder list

screen surface softly



9876 Live view

Bookmark list are displayed.

10 Messages list Displays the thumbnails of the title images of the folder /Total number of the messages

The display mode selected with the "Counter" of the set the counter display mode, see "Changing the

the "REC Mode" in the menu: ST: Standard play stereo recording mode

Appears when "Bookmark Repeat" is selected with the "Playback Set" in the menu.

9 Remaining memory indicator

• When the remaining recording time reaches 10 time will also appear.

12 Playback slider Displays the current position in a message during

14 Zoom scaling indicator Displays the current zoom scaling. You can zoom in

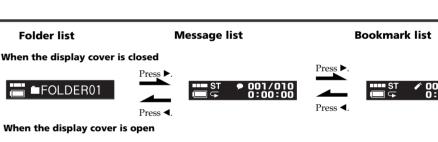
forward • zoom in)/►II (play/pause • enter) Press here to stop operation 14 VOL (volume) +/- button Adjust the playback sound volume with the button. low-level part of a recorded message is amplified so that the overall recording is adjusted to its optimum level. Up function.

n case the unit cannot be operated, press here with a pointed object for more than 0.5 second

microphone is automatically cut off.

Connect the supplied AC power adaptor for

activated, pressing this button activates the live view



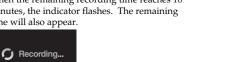
• If data other than message is saved, the remaining memory time is displayed excluding the data. You can check the remaining memory by selecting "Remaining Time" in the "Counter" menu. • When you set the "Beep" in the menu to "OFF", an alarm sound (beep) does not sound.

messages saved in the folder. The first bookmark or bookmark specified is displayed as title image. If there is no image (bookmark) recorded, the following icon is displayed: VOICE 11 Bookmark list Displays the thumbnails of the bookmarks recorded in a message.

playback or stop mode. The position where a bookmark is located is marked with "|", and the bookmark position before the playback or stop position is marked with ▼.

Displays the picture size specified with the menu.

zoom out by pressing ◄ (W: wide-angle).



13 Picture size indicator

an image by pressing ►► (T: telephotograph) and

When the memory is full, recording automatically

stops and "Memory is Full" will be displayed with an alarm sound. To continue recording, first

By pressing briefly, it works as DISPLAY button to change the display as follows: In the live view mode: Turns off and on the display When the live view is off: Switches the thumbnail

view of the messages or bookmarks and fullscreen preview of an image. By pressing for more than one second, it works as MENU button to display the menu on the LCD

8 REC (record) /PAUSE button

9 🚺 (camera) button

Press here to start and pause recording

urns on or off the live view mode for shooting an

∆(I◄◄: fast backward•zoom out)/▼(▶►I: fast

13 **(stop)** button

OFF: A message is played back without Digital Voice Depending on the area you purchased the unit, the Digital Voice Up switch name shown on the unit may

You can attach a handstrap (not supplied) here. 19 (headphones) jack To monitor the recording from the built-in

an external microphone is connected, the built-in

Use the supplied USB cable to connect the unit to a

Adding a Recording to a **Message- Post-recording**

You can add a recording to a previously recorded picture message without sound.

 You cannot add a recording to a message that contains • You cannot add a recording if the remaining memory is not long enough. For more information, see "Troubleshooting"

1 Rotate the lens mount to "●HOLD off/Camera off" or to other desired Camera angle

Post-Recording

2 Select a desired message without recorded sound you want to add a

3 Press MENU for more than Menu one second, and press ▼ to select "Post-recording"

4 Press ►II. The window to start postrecording is displayed

5 Press **A**/**▼** to select "Start and press ►II. the recording starts immediately. See

The menu mode exits and "Recording a Message with Images" to proceed with recording. You can add bookmarks as you like during recording.

To stop recording Press ■ (stop) before step 5 or select "Cancel" in step 4. **Recording with an External** Microphone or Other Equipment

When you connect an external microphone, the built-in microphone is automatically cut off. When a plug in power type microphone is connected, power is automatically supplied to the microphone from the IC

Recording with an external microphone

Connect an external microphone to the \(^{\scrt{\chi}}\) (microphone)

mini-plug

To the 🔨

(stereo)



☞ Recommended types of microphones You can use the ECM-CS10 Sony electret condenser

Recording from other equipment To record sound of other equipment with the IC recorder, connect the \(^\circ\) (microphone) jack of the IC recorder to the

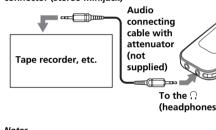
earphone jack of other equipment (tape recorder etc.) by using a resistance audio connecting cable. If you use an audio connecting cable without a resistor, sound

may be recorded interrupted. Make sure to use a resistance audio connecting cable. Recording with other equipment

To record the sound of the IC recorder with other equipment, connect the Ω (headphones) iack of the IC

recorder to the audio or line input connector (stereo minijack) of other equipment To the audio or line input

connector (stereo minijack)



• 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

Shooting an Image while Playing Back a Message -Adding Bookmarks

You can shoot an image and add it as a bookmark to a previously recorded message. You cannot add a bookmark when the number of

bookmarks in a message exceeds the maximum numbe

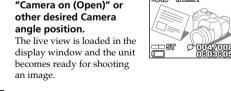
 You cannot add a bookmark if the remaining memory is not long enough. For more information, see "Troubleshooting" 1 Open the display cover and rotate the lens mount to the "● HOLD off/ Camera off" position.



2 Press **A**/**▼** to select the message you want to add



of the message 4 Rotate the lens mount to



5 At the desired point you want to shoot an image, press CAPTURE to shoot an image. The image is added as a bookmark to a message. To load the live view

If the message list is displayed, press 🗖 (camera) to turn on the live view again in the display window.

6 Repeat steps to add

To stop playback



The added bookmarks

in the bookmark list

Shooting an Image (Bookmark) as a New Message-Picture

You can shoot an image in stop mode and record the image (bookmark) as a new message without recorded sound (picture message). You can record only one image for a message. Sound can be added later. See "Adding a Recording to a Picture Message-Post-recording" for the

You cannot record a picture message if the remaining memory is not long enough or the maximum number of messages have already been recorded in the folder.

Open the display cover and rotate the lens mount to the "Camera on (Open)" or other desired Camera angle position. The live view is loaded in the display window and the unit becomes ready for shooting



Turn the lens

2 Press CAPTURE shoot an The image is saved as a new message without sound The image is displayed as the title image of the message in the message list and in the bookmark list.

Self Position



You can turn the lens towards you and shoot self view of

Open the display cover and rotate the lens mount fully until it clicks into the "Camera on (Self)" The lens faces toward you and the live view is loaded in the display window and the unit becomes ready for shooting an image

Using the Digital Zoom Feature

You can zoom in and out an image using the digital zoom



During live view, press ►►I/I◀◀.

Each time you press **◄**, an

image is enlarged (up to

▶►I: for zooming in an image

x4). The zoom scaling

indicator moves to the

"W" (wide-scale) end.

Each time you press ▶, an

image is reduced (up to

x1). The zoom scaling

indicator moves to the

"T" (telephotograph)

◄: for zooming out an image

mount to "Camera on (Self)" position.



message in a folder, it searches from the last or g message of the folder again To play the searched

5 To search for a bookmar

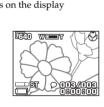
displayed.

You can also use the digital zoom function during shooting

Shooting Close-ups – Macro For close-ups of small subjects, you can shoot an image with the macro feature

During live view, slide the Macro switch to "" (Macro) position.





To return to normal shooting Slide the Macro switch to "●" (normal position) The Macro indicator disappears from the display

Except for shooting close-ups, we recommend you shoot an image in the normal shooting mode.

Searching for a Bookmark, Message or Folder

► Various Ways of Playback

bookmark, message, or folder.

You can locate the message or point you wish to start playback by switching the view and searching for a

About the folder structures of messages The memory of the IC recorder has the following folder structures: each folder contains messages, and each message contains bookmarks. You can switch view between the folder list (), message list (), and bookmark list (🏕) by pressing ◀/▶.

Folder list	Message list	Bookmark list
FOLDER01	Message 1	BM 1
	_	BM 2
		BM 3
		BM 4
	Message 2	BM 1
		☐ BM 2
FOLDER02	Message 1	BM 1
		BM 2
		BM 3

BM: Bookmark Switching the view and searching for a

message or bookmark You can switch the view between the folder, message and

bookmark lists and search for a message or bookmark Icon and name 1 Display the folder list (of the selected If the (folder) tab is not displayed, press ◀ until the folder list is displayed. * You can display a long folder name by scrolling th

2 Press **▲**/**▼** to select the



4 Press **A**/**▼** to select the desired message. If you keep the button pressed, you can search at a higher speed. If the unit reaches the first or the last

Press ►II to start playback. The bookmarks contained in

Playback slider the selected message are The position of the selected is marked **6** Press **△**/**▼** to select the desired bookmark. If you keep the button pressed, you can search at a higher speed. If the unit reaches the first or the last bookmark in a message, it searches from the last or beginning bookmark of the previous or next message

To play the searched bookmark Press ►II to start playback of the bookmark. The units plays the rest of bookmarks in a folder. To display a bookmark image in full-screen In the message or bookmark list, select the desired message or bookmark and then press DISPLAY. The selected image

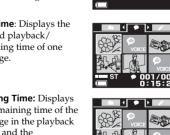
will be displayed in fullscreen. To return to the thumbnail lists, press DISPLAY again. (When you display a bookmark image in full-screen during stop mode, the full-screen display will be terminated if you do not operate the unit for 15 seconds.)

You can select the counter display mode for the stop,

recording and playback modes. 1 Press MENU for more than Menu one second, and press ▼/ ▲ to select "Display Set".

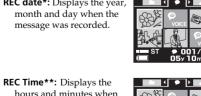
3 Press **△**/**▼** to select "Counter" and press ►II. Elapse Time

setting window is displayed 4 Press **A**/**▼** to select the desired counter display You can select the mode from the following: Elapse Time: Displays the elapsed playback/

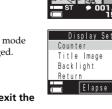


Remaining Time: Displays the remaining time of the message in the playback mode, and the remaining recordable tin in the stop and recording

REC date*: Displays the year,



5 Press ►II. The counter display mode



menu mode. * If the clock has not been set, "--v--m--d" will be displayed.

Playing back the Section between the two Bookmarks -**Bookmark Repeat**

2 Press ►II.

press ►II.

and press ►II.

menu mode.

▲/▼ to select the

to start playback

You can specify a bookmark and play back the section between the specified bookmark and the next bookmark repeatedly --Bookmark Repeat

Selecting the Bookmark Repeat playback

1 Press MENU for more than Menu

one second, and press ▼/ ▲ to select "Playback Set". Bookmark Repea

The playback setting window is displayed **3** Press **▲**/**▼** to select "Bookmark Repeat" and Bookmark Repeat The bookmark repeat mode setting window is displayed. 4 Press **▲**/▼ to select "ON" 5 Press ■ (stop) to exit the

The "C" (repeat) appears ir Playing back between the two bookmarks 1 In the bookmark list, press bookmark that you want For how to specify the

bookmark, see "Searching for a Bookmark, Message or 2 Press ►II. The section between the selected bookmark and the next bookmark will be played back repeatedly. ST / 002/008

To play different section Press ▲/▼ to locate the desired bookmark as the starting point of the section that you want to repeat playback. To stop repeat playback Press \blacksquare (stop).

To return to the normal playback Select "OFF" in step 4 in "Selecting the Bookmark Repeat playback mode".

► Editing Messages

Selecting the Title Image

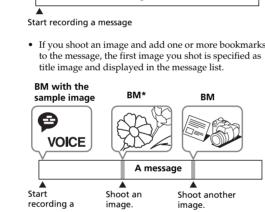
You can select the desired bookmark as the title image. What is "title image"? he bookmark image displayed in a message list is called

 When you record a message, a bookmark of the sample image (VOICE) is automatically added at the beginning of a message. If you do not add any bookmark during recording a message, the bookmark with the sample image becomes the title image of the message and displayed in the message list. BM (Bookmark)

with the

A message

VOICE | sample image



the title image of the messa

2 Press MENU for more than Menu

1 Select the message for

the title image.

3 Press ►II.

is displayed

which you want to select

one second, and press ▼/

▲ to select "Display Set".

The display setting window

4 Press **A**/**▼** to select "Title

Image" and press ►II.

The bookmarks list of the

desired bookmark for the

The display setting window

7 Press **■** (stop) to exit the

In the message list, the

selected image is displayed

selected message is

5 Press **▲**/**▼** to select the

tile image.

appears again.

menu mode.

as the title image.

6 Press ►II

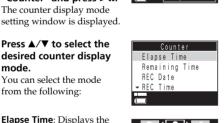
You can select the title image for a message as follows:

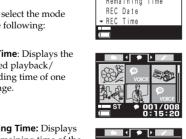
* The first bookmark image you shot becomes

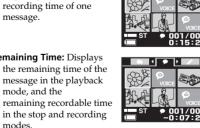
Changing the Counter Display

2 Press ►II. The display setting window is displayed.













the message is recorded.

setting has be changed 6 Press ■ (stop) to exit the

**If the clock has not been set, "--:-" will be displayed

Editing an Icon and Name of a Folder

You can label an icon or name of a folder yourself ® 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

Schedule, 📶 Meeting, 🖃 Memo, 👍 Business Trip, Lecture, 🚣 Training, 🕰 Speech, 🦫 Action, 🏠 Personal, 🛭 Idea, 👚 Shopping, 🐌 Music, 🛅 Travel, 🦺 esson, Message, & Expense, & Research, Exhibition, 🖳 Report, 👺 Sports, 🎨 Date, 😴 Party, 🔯 anguage Lesson, PInterview, 🛅 , 🔄 , 🛗 , 📆 ,

Changing a folder icon Folders are automatically attached with the folder icon "_". You can select the desired folder icon from the

Select the folder you want to change its icon. 2 Press MENU for more than one second, and pressing ▲/▼ to select "Folder Settings". ☐ FOLDER0 3 Press ►II. The window for editing a

folder is displayed. = FOLDER01 4 Press **▲**/▼ to select "Folder Icon" and press ►II. The window for selecting a folder icon is displayed. — **=**FOLDER01

Press **▲/▼/◄/**▶ to select a folder icon. The cursor moves to the direction you press the key (▲/▼/◀/▶). ☐ ■FOLDER01 When you keep pressing ▲/ ▼, you can scroll the pages 6 Press ►II. **7** Press **■** (stop) to exit the • P • • •

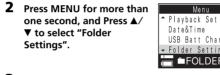
menu mode. The folder is labeled with the selected icon and its associated name.

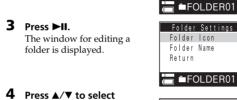
Depending on the folder icon you choose, there is no associated name. If you edit folder icons and names, folder icons and names will not be associated

Folders have been labeled automatically with double

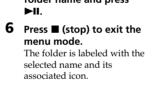
figures or letters like "FOLDER04" or "FOLDERAB", but you can label folders as you like by using template 1 Select the folder you want to change the

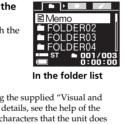
Changing a folder name











☐ ■FOLDER01

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

Erasing Messages or Bookmarks

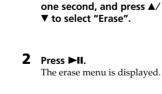
• Once a message or bookmark has been erased, you cannot • When you erase a message, both the sound and image data

(bookmarks) registered in the message will be erased. 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 Before erasing Erase Message 3

Message 1 Message 2 Message 3 Message 4 Message 5

Message 1 | Message 2 | Message 3 | Message 4 After erasing Remaining messages are 1 Press MENU for more than Menu



The message list is

back repeatedly for

displayed.

and press ►II.



3 Press **△**/**▼** to select "Message" and press ►II. displayed. The message selected when you press MENU in step 1 is selected. The first and last parts of the selected message is played

4 Press **▲**/**▼** to select the image that you want to erase and press ►II. Yes No The confirmation window is 5 Press **▲**/▼ to select "Yes"

The message is erased. 6 Press ■ (stop) to return to the normal display. The remaining messages will be renumbered. (For example, if you erase Message 3, Message 4 will be renumbered as Message 3. When erasing is completed, the unit will stop at the beginning of the following message.)

Press ■ (stop) before step 5

To cancel erasing

Erasing all messages in a folder

You can erase all recorded messages in a folder.

1 Select the folder you want to erase. You can select a folder in the folder list, or display the message list or bookmark list of the desired

▼ to select "Erase".

3 Press ►II.

not be erased.

2 Press MENU for more than Menu one second, and press ▲/

The erase menu is displayed All in Folder 4 Press **A**/**▼** to select "All in

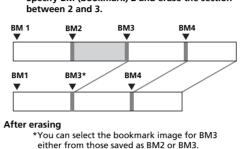
Folder" and press ►II. The confirmation window is displayed. Yes No 5 Press **▲**/▼ to select "Yes" and press ►II. All the recorded messages contained in the folder are erased. The folder itself will

6 Press ■ (stop) to exit the menu mode. To cancel erasing Press ■ (stop) before step 4

Erasing a section between two

If a folder contains a lot of messages, it may take long to erase

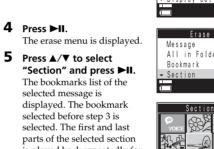
You can specify a bookmark and erase the section between the specified and the next bookmarks in a Before erasing Specify BM (bookmark) 2 and erase the section between 2 and 3.



1 Select the message whose section you want to

2 If there are no bookmarks for the section, add a bookmark at the beginning of the section you want to erase, and another bookmark at the end of the section. For adding bookmarks, see "Shooting an Image while Playing Back a Message - Adding Bookmarks'

3 Press MENU for more than Menu one second, and press ▲/ ▼ to select "Erase".



is played back repeatedly for 6 Press **▲**/**▼** to select the bookmark for the starting point of the section you

If a bookmark without image is

want to erase. Press ►II. The window to select an image to save as a remaining bookmark is displayed. Among the images of the two bookmarks, you can bookmark.

included for the section, the screens to select a bookmark (steps 8 and 9) will not be 8 Press **▲**/▼ to select the desired image for a bookmark and press ►II. Yes No

The confirmation message displayed. **9** Press **▲**/**▼** to select "Yes" and press ►II. The section is erased. The

selected image is saved as a

10 Press ■ (stop) to exit the menu mode. • If you specify the bookmark at the end of the message, an error message will be displayed. • If either of the two bookmarks of the section is the bookmark with the sample image, the bookmark with the

shot image will be automatically selected as another

Erasing a bookmark You can erase a bookmark in a message. 1 Select the message whose bookmark you

want to erase. 2 Press MENU for more than Menu one second, and press ▲/ ▼ to select "Erase". Erase **3** Press ►II.

The erase menu is displayed. 4 Press **▲**/▼ to select "Bookmark" and press The bookmarks list of the selected message is displayed. The bookmark selected before step 2 is selected. The first and last parts of the bookmark will be played back repeatedly

Execute?

for confirmation. **5** Press **▲**/**▼** to select the bookmark you want to erase. 6 Press ►II.

displayed. Yes No 7 Press **A**/**▼** to select "Yes" and press ►II. The bookmark is erased. 8 Press ■ (stop) to exit the menu mode.

The confirmation message is

• If you erase a bookmark with shot image at the beginning of the message, the default bookmark with the sample image is · You cannot erase the bookmark with the sample image at the beginning of the message.

• If you specify an image of a picture message, the message

▶ Other Operations

Formatting the Memory

You can format the memory. Formatting will erase all the

data recorded in the memory including voice messages images (bookmarks) and other data and resets the memory to the initial status of 5 folders. Before formatting, check the data in the memory.

1 Press MENU for more than Menu one second, and press ▲/ ▼ to select "Format" Execute

Yes No

2 Press ►II.

format is displayed. 3 Press **▲**/▼ to select "Execute" and press ►II. 4 Press A/▼ to select "Yes" and press ►II.

Formatting

5 Press ■ (stop) to return to the normal display

FOLDER05) are automatically created in the memory

in the same way when you use the unit for the first

After formatting, 5 folders (FOLDER01 to

Formatting of the memory

To cancel formatting Select "Cancel" in step 3 or "No" in step 4.

time after purchasing

Connecting to the PC to use the "Visual and Voice Editor' Software

By connecting the IC recorder to your PC, you can use the 'Visual and Voice Editor" software to do the following: Saving the IC recorder messages on your PC's hard

• Transferring the PC messages back to the IC recorder.

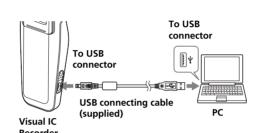
Playing or editing the messages on your PC.

Editing the bookmarks

Connection

 Cleaning the lens Sending a voice e-mail message using MAPI e-mail Wipe the lens with a soft cloth to remove fingerprints, Transcribing your IC recorder message using Dragon On moisture condensation NaturallySpeaking® speech-recognition software (not • If the unit is brought directly from a cold to a warm supplied) location, or is placed in a very damp room, moisture For the details, see the supplied "Visual and Voice may condense inside or outside the unit. This moisture

Editor" software operating instructions. condensation may cause a malfunction of the unit. • Moisture condensation occurs easily when: Use the USB connecting cable supplied to connect the The unit is brought from a cold location such as a USB connectors of the IC recorder and your PC. ski slope into a warmly heated room. - The unit is taken from an air-conditioned room or



When the unit is connected to the PC, "PC Connect" appears on the display window and you can recognize the IC recorder with your PC.

• You can use Windows Explorer to display the data stored in the memory of the IC recorder. When playing, editing, or saving a message, however, please make sure to use the supplied Visual and Voice Editor Do not directly drag and drop a message on the Windows Explorer window. The message cannot be recognised by the IC recorder.

• When you connect the IC recorder to the PC, make sure that

"ACCESS" is not displayed in the IC recorder display

To set the clock of the unit automatically When the "Date&Time" in the menu is set to "Auto" and connect the unit to the PC after the Visual and Voice

System requirements Your PC and system software must meet the following

according to the internal clock of your PC

• IBM PC/AT or compatible - CPU: 450MHz Pentium® III processor or higher - RAM: 128MB or more (256 M B or more is recommended.) Hard disk space: 70MB or more depending on the

size and number of sound files you store

CD-ROM drive

USB port (The unit supports Hi-Speed USB.) 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 Professional/Windows® XP Hom 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 PC whose operating system is installed or upgraded by the user, or a PC with multi-boot

operating environment are not supported.

Preventing Accidental Operation

— HOLD Function Rotate the lens mount to the "HOLD" position. "HOLD" will flash for 3 seconds, indicating that all the functions of the buttons are locked. Then all the display will be turned off after "HOLD" flashes.



To cancel the HOLD function

"HOLD" flash

 During recording and playback: recording or playback continues but the functions of the buttons are locked. The live view mode, if activated, will be turned off. · During stop: The unit enters into the standby mode.

The display will be turned off in approximately 3 seconds

after you rotate the lens mount to "HOLD" position and the

Rotate the lens mount to the "● HOLD off/Camera off",

"Camera on (Open)", or "Camera on (Self)" position.

On the AC power adaptor Be sure to use the AC power adaptor supplied with

• In case the cord of the AC adaptor is disconnected or damaged, never use it any longer, as this may cause

On handling

On maintenance

Cleaning the display window

screen surface of the display window.

car interior to the hot outdoors, etc.

bag when the unit has adapted to the new

When bringing the unit from a cold place to a warm

place, seal the unit in a plastic bag and leave it in the

new location for about an hour. Remove the plastic

Leave the unit and wait about an hour for the moisture

image with moisture remaining inside the lens, you

to evaporate. Note that if you attempt to shoot an

If you have any questions or problems concerning your

If an Error Message is displayed

To prevent moisture condensation

If moisture condensation occurs

will be unable to record clear images

unit, please consult your nearest Sony dealer.

the display cover to check the error message

in a place subject to direct sunlight, excessive dust or mechanical shock. Should any solid object or liquid fall into the unit, LCD panel used remove the batteries and have the unit checked by gradations, 262 144 colors qualified personnel before operating it any further

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

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

For recording/playback: On cleaning the LCD display window and lens -10 °C to +45 °C (14 °F to 104 °F) For charging Use the inner cloth of the carrying pouch supplied or a +5 °C to +35 °C (41 °F to 95 °F) soft cloth such as glasses cleaning cloth to wipe the

> AC power adaptor AC-ES608K (1) Plug adaptor (1) (supplied only in some Operating instructions (For the Visual IC Recorder (1)/For the application software (1) Stereo headphones (1)

> USB connecting cable (1) Application Software (CD-ROM) (1) Carrying pouch (1) Stereo headphones MDR-EX71SL, MDR-E931LP/Active speaker SRS-T88, SRS-T80, Electret condenser microphone ECM-CS10,

optional accessories. Please ask the dealer for detailed

Design and specifications are subject to change without

Specifications

IC recorder

Built-in flash memory 256 MB, Stereo/ Monaural recording Recording time

• ST: Approx. 11 hours 30 minutes • STLP: Approx. 22 hours 5 minutes Approx. 35 hours • LP: Approx. 93 hours 30 minutes

60 Hz - 13,500 Hz • ST: • STLP: 60 Hz - 7.000 Hz 60 Hz - 7,000 Hz

• LP: 80 Hz - 3,500 Hz Playback speed control (DPC) +100% to -50%

Camera Image file format

Picture size

Number of pixels 1 280 x 960 pixels (approx. 1 340 000 pixels)

1 280 x 960 pixels

640 x 480 pixels

Image device 5.00 mm (1/3.6 type) color CCD primary color Total pixels number of camera 1 360 x 986 pixels (approx. 1 340 000 pixels) Effective pixels number of camera 1 308 x 976 pixels (approx. 1 280 000 pixels) Focal length f=4.3mm, horizontal angle of view

49.5 degrees ended camera distance 30 cm to infinite (Macro: 12 cm)

General Speaker approx. 2.3 cm $(^{29}/_{32}$ in.) dia. 1.2 inch D-TFD liquid panel, RGB, 64 levels of

 Microphone jack (minijack, stereo) input for plug in power Headphones jack (minijack, stereo) output for 8 - 300 ohms headphones USB connector

6 V DC, 800mA, rechargeable lithium-ion Operating temperature

Dimensions (w/h/d) (not including projecting parts and $45.8 \times 101.2 \times 23.5 \text{ mm} \left(1^{13}/_{16} \times 4 \times \frac{15}{16} \text{in.}\right)$

Supplied accessories

ECM-TL1/Audio connecting cable RK-G134HG, RK-G135HG, RK-G136HG, RK-G139HG (excluding Europe)

If the following error messages are displayed, do the remedies described here. Should any problem persist after you have made these checks, consult your nearest Sony dealer.

 Battery runs out. Charge battery. When the remaining battery is short, you cannot erase a message or forma Bookmark Already Set

If an error appears when the display cover is closed, open

Camera Not Working The camera is out of order. You cannot load the live view on the display window. **Cannot Play**

• The file or folder may be erased by accident.

· You cannot add multiple bookmarks at the same

position of a message.

Charge Battery

Memory is Full

• Battery runs out. Charge the battery. File is Damaged/Folder not exist When you erase a message folder of the IC recorder with the Windows Explorer and you try to play back a message contained in the erased folder, this error message appears. Use the menu to erase the message with the IC recorder. When you erase a message folder of the IC recorder

appears. If this occurs, format the memory with the IC recorder. Or use the Visual and Voice Editor to erase Maximum Messages: Folder Full Because there are already 99 messages in the selected

with the Windows Explorer and you try to record a

message in the erased folder, this error message

folder, you cannot add a message. Erase some messages before adding a message or use another folder with much capacity Full of Message/Bookmark There are already the maximum number of messages or bookmarks. Or the memory is full.

• The remaining memory is too small. Erase some Message Already Recorded You cannot a post-recording to a message which already has sound. Select a picture message without

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

the selected message has no bookmarks. Without

bookmarks, messages or sound data, you cannot

· For some reason, you could not erase a message. Tray

The IC recorder failed in memory access because the

memory is corrupted or a system error occurred.

In case the unit cannot be operated, you can reset the

Power Supply Problem • An AC power adaptor that is defective or is not compatible with the IC recorder is connected. Disconnect the AC power adaptor immediately as this may cause malfunction with the unit. Make sure to use the AC power adaptor for the unit (supplied).

Failed to Erase/Cannot Erase

Please format with the unit

erasing again.

System Error

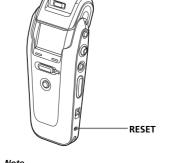
No Message/Bookmark/Voice Data

proceed with playback or editions.

 The unit may have been formatted with other device To use the unit, use the menu to format the memory. • To shoot an image, rotate the lens mount to the camera on position.

Resetting the System

Use a thin-pointed object to keep pressing into RESET



not always assured.

When you reset the system during operation, the data is

Precautions

▶ Other Information

WARNING

local authority

To prevent fire or shock hazard, do not expose the unit to rain or moisture Do not install the appliance in a confined space, such as a bookcase or built-in cabinet.

To prevent fire, do not cover the ventilation of the

pparatus with news papers, table cloths, curtains, etc. And don't place lighted candles on the apparatus. To prevent fire or shock hazard, do not place objects filled with liquids, such as vases, on the apparatus

Certain countries may regulate disposal of the battery

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

used to power this product. Please consult with your

the unit. Do not use other AC power adaptors, as this may cause a malfunction. Do not use an electrical transformer (travel converter) as this may cause overheat or a malfunction.

· Do not leave the unit in a location near heat sources, or

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

DC IN 6V jack

Mass (including batter 99 g (3.5 oz)

Your dealer may not handle some of the above listed