

Panasonic®



Operating Instructions

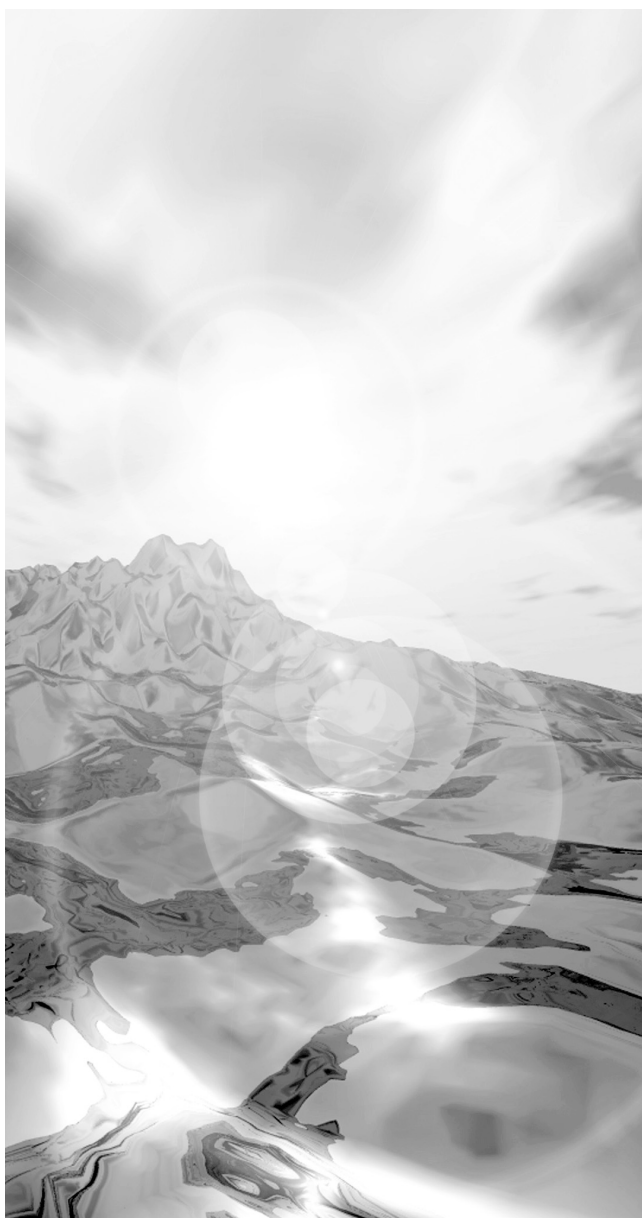
使用説明書

Video Cassette Recorder

Model No.

NV-HV62GH

Contents	Page
Warning and Important Information	2
Controls and Components	3
Connections	4
Tuning the TV to Your VCR	5
Storing TV Broadcasts in Your VCR	5
Setting the Clock of Your VCR	7
Settings Using the On Screen Display	7
Option Setting	8
Playback	9
Recording	10
Timer Recording	13
Search Functions	15
Before Requesting Service	17
Specifications	18



VHS
PAL NTSC

SUPER DRIVE

Before attempting to connect, operate or adjust this product, please read these instructions completely.

LSQT0876 A

Warning and Important Information

As this equipment gets hot during use, operate it in a well ventilated place;
Do not install this equipment in a confined space such as a book case or similar unit.

WARNING:

To reduce the risk of fire, electric shock or product damage, do not expose this equipment to rain, moisture, dripping or splashing and ensure that no objects filled with liquids, such as vases, shall be placed on the equipment.

Important

Your attention is drawn to the fact that the recording of pre-recorded tapes or discs or other published or broadcast material may infringe copyright laws.

For your safety

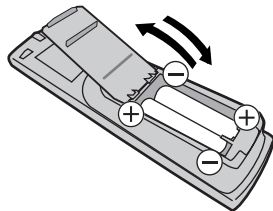
Do not remove outer cover.

Touching internal parts of the VCR is dangerous, and may seriously damage it.

To prevent electric shock, do not remove cover. There are no user serviceable parts inside. Refer all servicing to qualified service personnel.

Inserting Remote Control Batteries

Insert the batteries with the polarity (+ and -) correctly aligned.



Notes:

The service life of the batteries is approximately 1 year. However, it varies considerably depending on the frequency of use.

- When they are exhausted, replace them with two AA, UM3, or R6 size batteries.
- When the batteries are exhausted, remove them immediately and dispose them correctly.
- Do not mix old battery with new battery.
- Do not mix different battery types, i.e. Alkaline and Manganese.
- Do not use rechargeable (Ni-Cd) batteries.
- Do not heat or short-circuit the batteries.
- When you do not use the remote control for a long time, take out the batteries and store them in a cool, dry place.

Longrun Head System

This longrun head system enables approximately 8,000 hours of recording/playback in high quality images.

Newly developed head cylinder with narrower head windows and tapered cylinder design effectively protects heads from dust and prevents head clogging.

Plus, [Alumina] Head Cleaner further enhanced cleaning efficiency.

- Based on in-house tests with Panasonic video cassettes. Actual head life may vary according to conditions of use, tape type, temperature, humidity, etc.

Cautions before you operate this VCR

Avoid:

- Humidity and dust.
- Extreme heat such as direct sunlight.
- Magnets or electromagnetic objects.
- Touching internal parts of the VCR.
- Water or some other liquid.
- Lightning. (Disconnect the aerial plug from the VCR during lightning storms.)
- Anything heavy on the VCR.
- Connecting or handling the equipment with wet hands.
- Using a cell phone near the VCR because doing so may cause noise to adversely affect the picture and sound.

Do:

- Wipe the VCR with a clean and dry cloth.
- Install the VCR in a horizontal position.
- Keep the VCR, TV and other equipment switched off until you have finished all connections.

Condensation may form in the following cases:

- The VCR is brought from cold surroundings into a well-heated room.
- The VCR is suddenly brought from cool surroundings, such as an air-conditioned room or car, to a place which is hot and humid.

Note:

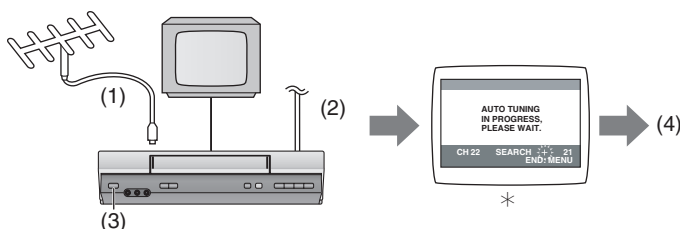
- In any of the above-mentioned conditions, do not operate the VCR for at least 1 hour. This VCR is not equipped with a dew sensor.

Press [VCR-ON/OFF] (1) to switch the VCR from ON to standby mode or vice versa. In the standby mode, the VCR is still connected to the mains.

The socket outlet shall be installed near the equipment and easily accessible or the mains plug or an appliance coupler shall remain readily operable.

Plug in Auto Tuning

(Setting image illustration)

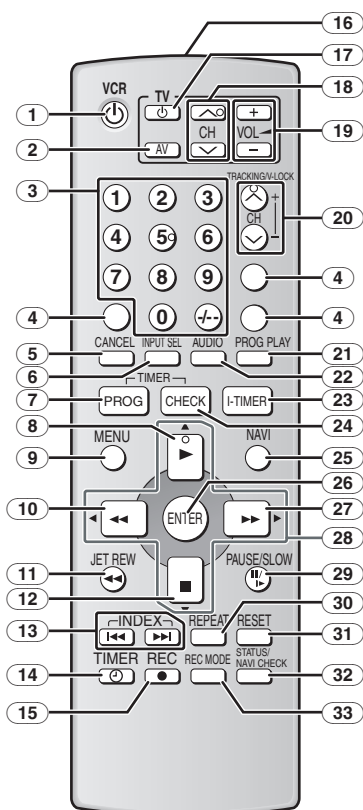


- (1) Connect the aerial cable.
 - (2) Connect the mains lead.
 - (3) Press [VCR-ON/OFF] (1).
 - (4) Plug in Auto Tuning is completed.
- * On Screen Display

All broadcasting stations that can be received in the area are automatically tuned and stored in memory.

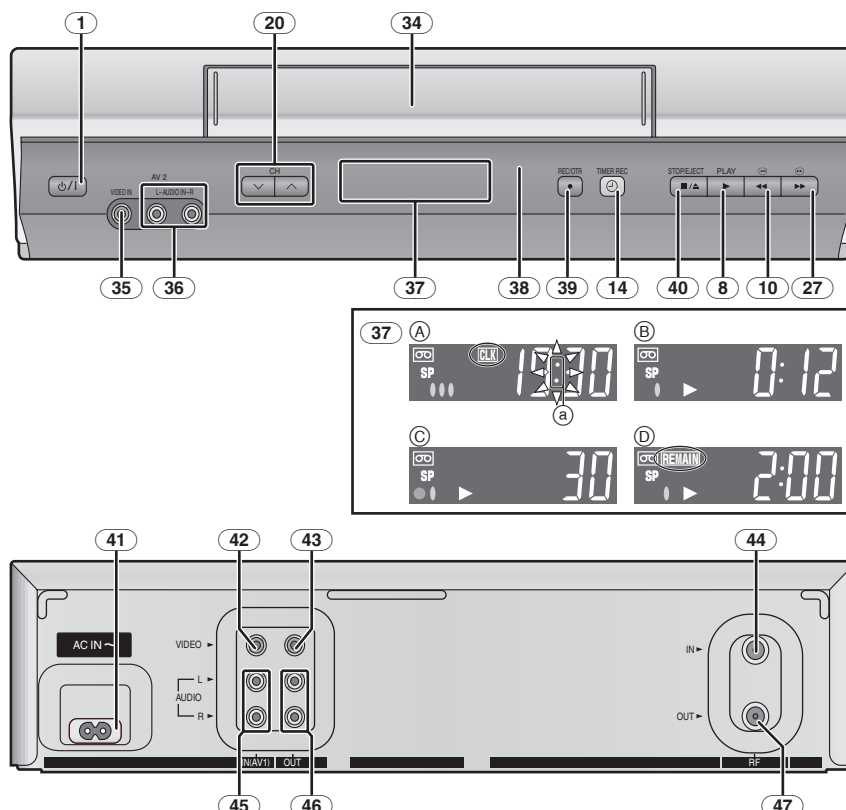
- Do not turn off the VCR halfway. (See page 5.)

Controls and Components



VCR Operation

- ① [VCR-ON/OFF]
- ② [AV]
- ③ [Numeric]
To select the programme positions (1-99).
• Example:
9: ⑨
19: ⑨ → ① → ⑨
To enter numbers for various settings.
- ④ No function
- ⑤ [CANCEL]
- ⑥ [INPUT SEL]
- ⑦ [PROG]
- ⑧ [PLAY]
- ⑨ [MENU]
- ⑩ [Rewind]
- ⑪ [JET REW]
- ⑫ [STOP]
- ⑬ [INDEX]
- ⑭ [TIMER (REC)]
- ⑮ [REC]
- ⑯ Infra-red transmitter
- ⑰ [TV-ON/OFF]
- ⑱ [TV CH]
- ⑲ [VOL]
- ⑳ [CH]/[TRACKING/V-LOCK]
- ㉑ [PROG PLAY]
- ㉒ [AUDIO]
- ㉓ [I-TIMER]
- ㉔ [CHECK]
- ㉕ [NAVI]
- ㉖ [ENTER]



- ㉗ [Fast Forward]
- ㉘ [▼, ▲, ◀, ▶] (Cursor buttons)
- ㉙ [PAUSE/SLOW]
- ㉚ [REPEAT]
- ㉛ [RESET]
To reset the tape counter (elapsed time) to [0:00].
• The tape counter is automatically reset to [0:00] when a video cassette is inserted.
- ㉜ [STATUS/ NAVI CHECK]
- ㉝ [REC MODE]
- ㉞ Cassette compartment
- ㉟ VIDEO IN socket (AV 2)
- ㊱ AUDIO IN sockets (AV 2)
- ㊲ VCR display
A: Current time (a: It flashes only when the current time is displayed.)
B: Tape counter
C: OTR Recording
D: Remaining tape time
• When you turn off the main unit, VCR display will be dimmed.
- ㊳ Infra-red Remote Control Receiver window
- ㊴ [REC/OTR]
- ㊵ [STOP/EJECT]
- ㊶ AC Input socket
- ㊷ VIDEO IN socket (AV 1)
- ㊸ VIDEO OUT socket
- ㊹ RF IN socket
- ㊺ AUDIO IN sockets (AV 1)
- ㊻ AUDIO OUT sockets
- ㊼ RF OUT socket

TV Operation using the remote control

You can use [TV-ON/OFF] ⑰^{*1}, [AV] ②^{*2}, [VOL] ⑲^{*3} and [TV CH] ⑱^{*4} on the remote control for your TV operation. (See page 4.)

^{*1} To switch the TV on from standby mode (OFF) or vice versa. On some TVs it is only possible to switch the TV to standby mode (OFF) with this button, but not on. In this case, try to turn the TV on with one of the following buttons:

- [AV] ②
- [TV CH] ⑱

^{*2} To select desired AV input on the TV.

^{*3} To adjust the volume of the TV.

^{*4} To select the desired programme position (TV station) on the TV.

Note:

- You cannot operate TV channels with [Numeric] ③. When you want to change the channel, press [TV CH] ⑱ on TV operation part.

Setting the Remote Control to Operate Your TV

You can operate the TVs of the manufacturers listed below with the remote control after setting it.

This setting procedure allows you to operate the TVs of some manufacturers using the supplied remote control.

Preparation

- Turn on the TV.

Operations

- 1 Find the manufacturer number of your TV while referring to the following table.
- 2 While holding down [TV-ON/OFF] (17) on the remote control, use [Numeric] (3) to enter the manufacturer number. This completes the settings for the TV manufacturer.
 - Be sure to enter the number in two digits.
 - Example: 1 → 01
- 3 To confirm the correct settings were made, check whether the TV can be operated properly.
 - When a manufacturer has multiple numbers in the following table, try entering other numbers if the TV operations cannot be performed properly, and then select the optimal number.

Notes:

- If you are using a Panasonic TV, this setting has already been made, and so you do not need to perform the above setting procedure. However, this remote control may not work with some Panasonic TVs.
- Some TV models cannot be operated using this remote control (including all TVs non-remote compatible).

List of TVs Compatible with the VCR Remote Control

[Brand]	[Code]
Panasonic/National	01-04
SONY	05
TOSHIBA	06
JVC	07
HITACHI	08
MITSUBISHI	09, 10
SHARP	11
PHILIPS, SAMSUNG	12
NEC	13
SANYO	14
GOLDSTAR/LG	15, 16
SAMSUNG	17, 18
SANYO	19

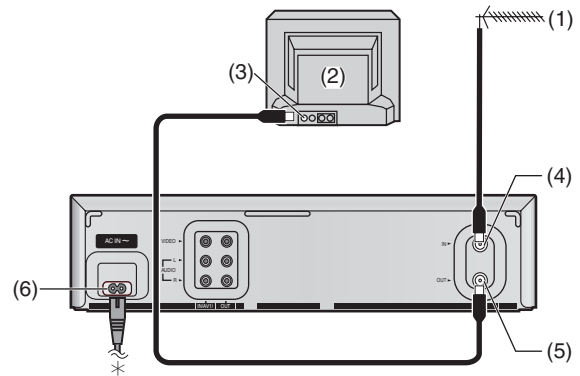
Connections

This section shows you how to connect the VCR to an aerial, TV, etc.

When the VCR is turned on after unpacking and connecting the aerial cable and the mains lead, Plug in Auto Tuning starts automatically.

Basic Connections

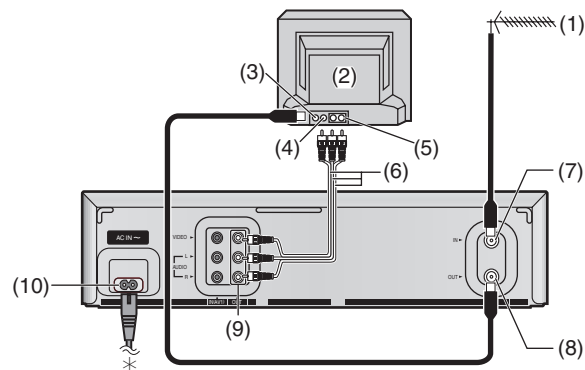
The following connections are required to record and play back the video cassette through the TV.



- (1) Aerial (Not supplied)
- (2) TV Set (Not supplied)
- (3) Aerial Connector
- (4) RF IN socket (44)
- (5) RF OUT socket (47)
- (6) AC Input socket (41)
- * To mains supply

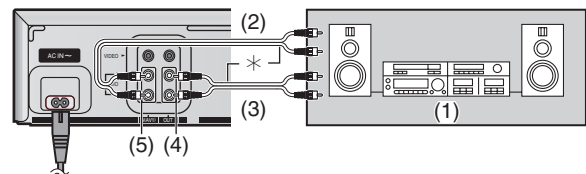
Connection to a TV using the Audio/Video Input Socket:

Set the RF output channel of the VCR to [---] (RF OFF) when the VCR is connected to the TV via the Audio/Video cable. (See page 5.)



- (1) Aerial (Not supplied)
- (2) TV Set (Not supplied)
- (3) Aerial Connector
- (4) VIDEO IN
- (5) AUDIO IN
- (6) AV Cable (Supplied)
- (7) RF IN socket (44)
- (8) RF OUT socket (47)
- (9) VIDEO OUT (43) / AUDIO OUT (46)
- (10) AC Input socket (41)
- * To mains supply

Connection to a Stereo Amplifier:



- (1) Stereo amplifier (Not supplied)
- (2) For RECORDING
- (3) For PLAYBACK
- (4) AUDIO OUT (46)
- (5) AUDIO IN (45)
- * Audio Cables (Not supplied)

Tuning the TV to Your VCR

The VCR supplies a signal to the TV via the RF coaxial cable on channel E21-E69.

If you have connected the VCR to the TV through the Audio/Video input sockets, then you do not need to follow the procedure below. To view the pictures from the VCR, set to the AV mode on the TV with [AV] (2).

Preparation

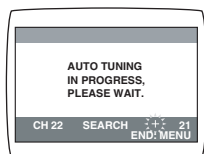
- Turn on the TV and the VCR.

Operations

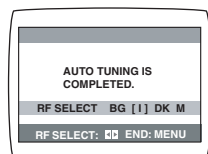
1 Set the TV to an unused position which you wish to use for your video playback.

- Tune the TV until the display shown below appears on the screen. (Please refer to the TV manufacturers operating instructions regarding tuning.)
- Set [RF SELECT] by pressing [◀▶] (28) to select the colour TV system used by the TV set to be connected.

BG: PAL B.G.H/SECAM B.G
 I: PAL I
 DK: PAL D/SECAM D.K.K1
 M: NTSC



During Plug in Auto Tuning



After Plug in Auto Tuning

2 Press [MENU] (9).

- If Auto Tuning stops halfway, refer to the right "To Restart Plug in Auto Tuning".

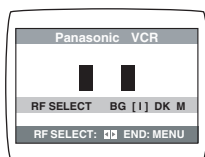
To Change the RF output Channel

You can change the RF output channel, for example, when interference occurs on the picture after tuning.

Operations

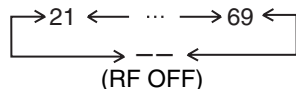
1 Hold down [MENU] (9) for 5 seconds or more.

- The VCR display changes as shown below and the VCR picture on the TV displays this pattern.



2 Enter the desired channel number (E21-E69) by [Numeric] (3) or [CH] (20).

- Set the RF output channel of the VCR to [—] (RF OFF) when the VCR is connected to the TV via the Audio/Video cable.
- Press [CH] (20) to display [—].



- It is also possible to select by pressing [Numeric] (3).

Example: 28: (2) → (8)

3 Press [MENU] (9) to finish the setting mode.

4 Retune your TV to the new RF channel for the VCR.

Note:

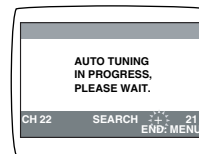
- Even if the RF output channel has been changed, it is not necessary to perform Auto Tuning.

Storing TV Broadcasts in Your VCR

The VCR is fitted with its own tuner (just like a normal TV) and can be preset to receive up to 99 TV broadcast stations.

Plug in Auto Tuning

When the VCR is turned on after connecting the aerial cable and the mains lead, Auto Tuning starts.



Auto tuning searches for TV stations from VHF minimum to UHF maximum and memorizes every tuned programme position.

To Cancel Auto Tuning Mid-Operation:

Press [MENU] (9) during Auto Tuning.

If Auto Tuning stops halfway, follow the next procedures to restart Plug in Auto Tuning.

To Restart Plug in Auto Tuning

If Auto Tuning stops halfway by cancelling or playback;

- 1 Press [STOP/EJECT] (40) and remove the video cassette.
- 2 Keep both [CH] (20) ∨ and ∧ on the VCR pressed simultaneously for 3 seconds or more during the VCR on.
 - The channel displayed on the VCR display disappears for a moment then changes to 1.



3 Disconnect the mains lead and then reconnect it.

4 Turn off the VCR and then turn it on.

- Auto Tuning commences.

If Auto Tuning stops halfway by turning the VCR off or a power failure,

Or if the VCR is turned on without the aerial connected and all channels are skipped:

- 1 Disconnect the mains lead and then reconnect it.
- 2 Turn off the VCR and then turn it on.
 - Auto Tuning commences.

Auto Tuning Using the On Screen Display

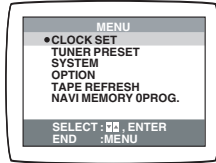
The VCR is tuned automatically by Plug in Auto Tuning. However, Auto Tuning using the On Screen Display should be performed according to the following method if necessary.

Preparations

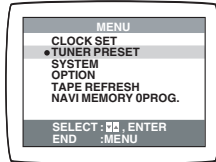
- Confirm that the TV is on and the VCR viewing channel is selected.
- Turn on the VCR and select any programme position except A1 or A2.

Operations

- 1 Press [MENU] (9) to display the Main menu on the TV screen.

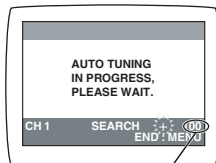
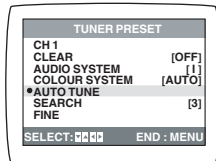


- 2 Press [▼▲] (28) to select [TUNER PRESET] then press [ENTER] (26).



- 3 Press [▼▲] (28) to select [AUTO TUNE] then press [◀▶] (28) to start the Auto Tuning.

- When Auto Tuning is completed, the On Screen Display disappears and programme position 1 is selected.



The number displayed here is the number of channels still to be auto tuned.

Channels that can be received

SYSTEM		VHF	UHF	CATV
B G	CCIR Standard (B.G.H)	E2-E12	E21-E69	S01-S05 M1-M10 U1-U10 S21-S41
I	Hong Kong Special Administrative Region of China, UK (I)	—	E21-E69	—
D K	East Europe (D.K.K1)	R1-R12	E21-E69	44-470 MHz
	China (D)	C1-C12	C13-C57	Z1-Z35
M	USA (NTSC)	2-13	14-79	5A A-5-FFF
	JAPAN (NTSC)	1-12	13-62	C13-C63

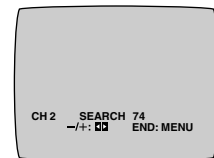
Notes:

- Auto Tuning searches for TV stations from VHF minimum to UHF maximum and memorizes every tuned programme position. Other programme positions are skipped.
- Auto Tuning takes 5 or more minutes to complete its search.

Manual Tuning Procedure

If the VCR is not correctly tuned by Auto Tuning, follow the procedure below.

- 1 Press [MENU] (9) to display the Main menu on the TV screen.
- 2 Press [▼▲] (28) to select [TUNER PRESET] then press [ENTER] (26).
- 3 Press [▼▲] (28) to select [CH] then select the channel number you want to tune by pressing [◀▶] (28).
- 4 Confirm that [CLEAR] is set to [OFF].
- 5 Press [▼▲] (28) to select [AUDIO SYSTEM] then select the broadcasting system by pressing [◀▶] (28).
BG: PAL B.G.H/SECAM B.G
I: PAL I
DK: PAL D/SECAM D.K.K1
M: NTSC
- 6 Press [▼▲] (28) to select [COLOUR SYSTEM] then select [AUTO] by pressing [◀▶] (28).
 - The VCR automatically distinguishes between PAL and SECAM broadcasts.
 - If the picture lacks of colour when [AUTO] is selected, select [MESECAM], [PAL] or [NTSC].
- 7 Press [▼▲] (28) to select [SEARCH] then press [◀▶] (28) to start the Manual Tuning.



- If the desired TV station has not been tuned, press [◀▶] (28) again.
- Press [MENU] (9) and repeat steps 3-7 for each programme position you want to tune to a station.

- 8 Press [MENU] (9) three times to exit the On Screen Display.

Direct Tuning

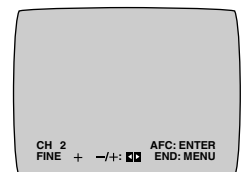
Follow steps 1 to 4 of Manual Tuning Procedure.

- 5 Press [▼▲] (28) to select [SEARCH].
- 6 Press [Numeric] (3) to enter the number of the desired programme position.
 - For other channels that require tuning, repeat steps 3, 4, 5, 6.
- 7 Press [MENU] (9) twice to exit the On Screen Display.

Fine Tuning Procedure

Follow steps 1 to 4 of Manual Tuning Procedure.

- 5 Press [▼▲] (28) to select [FINE] then press [◀▶] (28) to obtain the best tuning condition.
 - Press [ENTER] (26) to return the tuning to its former state.
- 6 Press [MENU] (9) to exit the On Screen Display.



Blanking of Unused Programme Positions

Follow steps 1 to 3 of Manual Tuning Procedure.

- 4 Press [▼▲] (28) to select [CLEAR] then press [◀▶] (28) to select [ON].
 - Repeat steps 3, 4 for other unused programme positions to skip during the selection of programme positions.
 - To cancel the blanking of a programme position, select that programme position then set [CLEAR] to [OFF].
- 5 Press [MENU] (9) twice to exit the On Screen Display.

Setting the Clock of Your VCR

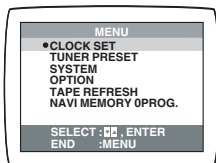
In the event of a power failure, the clock will operate on its back up system for a minimum of 3 years. After 3 years, clock back up in the event of a power failure can only be guaranteed for maximum of 1 hour.

Preparations

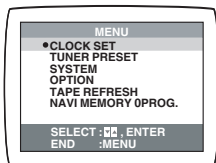
- Confirm that the TV is on and the VCR viewing channel is selected.
- Turn on the VCR.

Operations

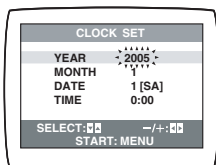
- 1 Press [MENU] (9) to display the Main menu on the TV screen.



- 2 Press [▼▲] (28) to select [CLOCK SET] then press [ENTER] (26).



- 3 Set each item by pressing [◀▶▼] (28). Press [▲] (28) to return to the previous item.



At the set time (TIME) point:

- When [◀▶] (28) is kept pressed, the indication changes in 30-minute steps.

- 4 Press [MENU] (9).
 - The clock starts.



Time Reset Function

If the clock is less than 2 minutes slow or fast, it can easily be reset to the proper time.

Example:

Resetting the clock to 12:00

- 1 Press [MENU] (9) to display the Main menu on the TV screen.
- 2 Press [▼▲] (28) to select [CLOCK SET] then press [ENTER] (26).
- 3 When the current clock displays on the VCR is between 11:58 and 12:01, press [MENU] (9) as soon as you see the 12:00. This resets the time to 12:00.

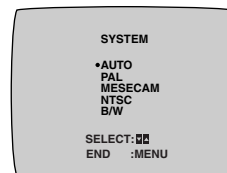
Settings Using the On Screen Display

Preparations

- Confirm that the TV is on and the VCR viewing channel is selected.
- Turn on the VCR.

To Set the Colour TV System

- 1 Press [MENU] (9) to display the Main menu on the TV screen.



- 2 Press [▼▲] (28) to select [SYSTEM] then press [ENTER] (26).

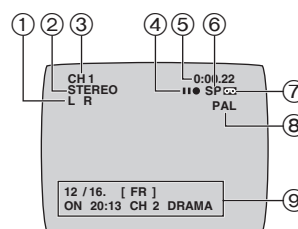
- 3 Press [▼▲] (28) to select [AUTO].

- The VCR automatically distinguishes between PAL, SECAM/MESECAM and NTSC signals. If the picture lacks of colour during AV external recording or playback, set to [PAL], [MESECAM] or [NTSC].
- When you want to record or play back in black and white, set to [B/W].

- 4 Press [MENU] (9) twice to exit the On Screen Display.

To Make Various Indicators Appear On Screen Display

At a press of [STATUS/ NAVI CHECK] (32), the following indications appear on the TV screen.



- Set [OSD] to [AUTO]. (See page 9.)
- The display is released automatically after 5 seconds.

① Audio Output Mode Indicators

At each press of [AUDIO] (22), the selected sound mode is indicated with Left (L) and Right (R).

Stereo: Both the Left (L) and Right (R) Indicators appear.

Left: The Left (L) Indicator appears.

Right: The Right (R) Indicator appears.

Normal: Neither the Left (L) nor Right (R) Indicator appears.

- At every push of this button, the audio output mode changes as follows.

During playback:

Stereo → L → R → Normal audio track → Stereo

While the broadcast signals are being received:

Stereo → L → R → Normal → Stereo

② STEREO, M1 and M2 Indicator

When receiving a TV programme with the Stereo, Bilingual or NICAM sound system, the type of sound system in which it is broadcast is automatically indicated.

STEREO: When receiving a Stereo/NICAM stereo broadcast.

M1/M2: When receiving a Bilingual/NICAM dual-sound broadcast.

M1: When receiving a NICAM monaural broadcast.

- To hear stereo performance connect as shown on page 4 to a TV or Stereo Amplifier with left and right audio inputs.

③ Programme position

④ Tape running display

Stop, Eject	
Rewind, Review, Index Search ◀◀, Jet Search ◀◀, Jet Rewind	◀◀
Fast Forward, Cue, Index Search ▶▶, Jet Search ▶▶	▶▶
Playback	▶
Recording	●
Recording pause	⏸
Repeat playback	R▶

⑤ Present time/Tape counter/Remaining tape time/Index Search/OTR indication/JET Rewind

Information	Display
Present time	17:24
Tape counter	0:02.54
Remaining tape time	REMAIN 2:34
Index Search	S 01
OTR indication	OTR 60
JET Rewind	J . REW

⑥ Tape Mode/Rec Mode indicator (SP/LP/EP)

⑦ Cassette-in indicator

⑧ Colour system indicator

Any selected colour TV system except [AUTO] appears on screen display. See pages 6 and 7.

⑨ NAVI CHECK indicator

During playback, press the [STATUS/ NAVI CHECK] (32) repeatedly until the NAVI CHECK indicator appears. You can check the property of the programme being played. However, this function is effective only for programmes recorded with setting the [JET NAVIGATOR] to [ON]. (See to the right.)

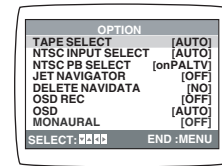
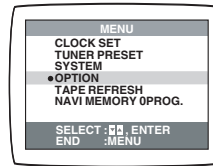
Clock → Counter → Remaining Tape Time →
→ **NAVI CHECK indicator** → Clock

- When the VCR is checking the programme data, the message [CHECKING DATA] is displayed.
- When the programme data cannot be found, the message [DATA NOT FOUND] appears.

Note:

- The On Screen Display may be disturbed or disappeared during special playback.

Option Setting



- 1 Press [MENU] (9) to display the Main menu on the TV screen.
- 2 Press [▼▲] (28) to select [OPTION] then press [ENTER] (26).
- 3 Press [▼▲] (28) to select the desired field.

TAPE SELECT: To select the corresponding video cassette tape length to display the approximate remaining tape time.

- Press [◀▶] (28) to select the corresponding video cassette tape length.
AUTO: The VCR automatically distinguishes E30, -60, -90, -120, -180 and -240 tapes.
E195: For E195 tape
E260: For E260 tape
E300: For E300 tape
- The remaining tape time may not be displayed correctly depending on the tape used.

NTSC INPUT SELECT: To select the colour TV system used to record NTSC signals.

- Press [◀▶] (28) to select [AUTO]. Allows NTSC [4.43] or [3.58] signals to be distinguished automatically.
- If the tape has not recorded correctly, select 4.43 or 3.58.
4.43: When recording NTSC 4.43 signals.
3.58: When recording NTSC 3.58 signals.
• Some programmes on NTSC 3.58 system cannot be recorded correctly by selecting [3.58].

NTSC PB SELECT: To select the colour TV system of the TV used to play back a tape recording NTSC signals.

- Press [◀▶] (28) to select the desired position according to the colour TV system of the TV.
on PAL TV: For TVs that can receive PAL signals.
4.43: For TVs that can receive NTSC 4.43 signals.
3.58: For TVs that can receive NTSC 3.58 signals.

JET NAVIGATOR: To set the conditions for the Jet Navigator Function.

- Press [◀▶] (28) to select [ON] or [OFF].
OFF: Initially set at this position.
ON: Jet Navigator function works. If you select [ON], [OSD REC] is set to [OFF] automatically.

DELETE NAVIDATA: To delete all the Jet Navigator data stored in the VCR memory.

- Press [◀▶] (28) to select [ENTER] then press [ENTER] (26) to do the deletion.
NO: Initially set at this position.
ENTER: It is done to delete all the Jet Navigator data.

OSD REC: To set the conditions for the OSD Recording function.

- Press [◀▶] (28) to select [ON] or [OFF].

OFF: Initially set at this position.
 ON: This setting enables OSD Recording. (See page 11.) If you select [ON], [JET NAVIGATOR] is set to [OFF] automatically.

OSD: To select the On Screen Display mode.

- Press [◀▶] (28) to select [AUTO] or [OFF].

AUTO: To make various indicators appear On Screen Display for 5 seconds press [STATUS/ NAVI CHECK] (32).
 OFF: No indications appear.

MONAURAL: To select the sound mode.

- Press [◀▶] (28) to select [ON] or [OFF].

ON: To record the normal sound during a NICAM broadcast or if the stereo sound is distorted due to inferior reception conditions.
 OFF: Normally set at this position.

4 Press [MENU] (9) twice to exit the On Screen Display.

Playback

Preparations

- Confirm that the VCR is on.
- Confirm that the TV is on and the VCR viewing channel is selected.
- Insert a recorded video cassette.

For Normal Playback:

Press [PLAY] (8).



For Cue or Review Playback:

During playback, tap [Fast Forward] (27) or [Rewind] (10).



- To return to normal playback, press [PLAY] (8).
- If you press and hold down [Fast Forward] (27) or [Rewind] (10), cue or review playback continues for as long as you keep the button pressed, and operation returns to normal playback when the button is released.



For High speed Cue or Review Playback (JET SEARCH):

During playback, tap [Fast Forward] (27) or [Rewind] (10) twice.

For Still Playback:

During playback, press [PAUSE/SLOW] (29).

- To return to normal playback, press [PLAY] (8) or [PAUSE/SLOW] (29).



For Slow Playback:

During playback, keep [PAUSE/SLOW] (29) pressed for 2 seconds or more.

- To return to normal playback, press [PLAY] (8).



Fast-forwarding or Rewinding the Tape:

Press [Fast Forward] (27) or [Rewind] (10) in the stop mode.

- To stop fast-forwarding or rewinding, press [STOP] (12).

To Obtain a Higher Speed Rewind (Jet Rewind):

Press [JET REW] (11).

The [J . REW] indication appears on the TV screen.

- Depending on a cassette or an operating condition, the rewind speed may change somewhat.
- The tape counter is reset to [0:00] when the tape is rewound to the beginning.

To Stop Playback:

Press [STOP] (12).

Notes:

- JET SEARCH, cue, review or slow playback will be automatically cancelled after 10 minutes, and still playback after 5 minutes.
- During playback function other than normal playback, horizontal noise bars may appear in the picture, the colour of the picture may be unstable, or the picture may be otherwise distorted.
- When you play back a tape recorded in the LP mode, the picture may be in black and white.
- When you play back a tape recorded in the EP mode, the picture and the sound may be unstable. However, these are not malfunctions.

To Play back S-VHS Cassette Tape (SQPB=S-VHS Quasi Playback)

It is also possible to play back tapes recorded in the S-VHS system.

- Some picture noise may occur depending on the type of tape used.
- It is not possible to fully obtain the high resolution that S-VHS is capable of.
- It is not possible to record in the S-VHS system with this VCR.

To Play Back a Recorded Part Repeatedly

Press [REPEAT] (30).

- Press [STATUS/ NAVI CHECK] (32) and the [R▶] indication appears on screen display. (See pages 7 and 8.)
- A recorded part on the tape must be at least 15 minutes long.
- When recording over the same location on a tape, it may not function correctly.

To Cancel the Repeat Playback Mode:

Press [STOP] (12).

NTSC Playback

Tapes recorded in the NTSC system can be played back with this VCR via a PAL system TV.

- Select [NTSC PB SELECT] from the On Screen Display according to the colour TV system of the TV. (See page 8.)
- NTSC 3.58 recording requires [NTSC INPUT SELECT] to be in the AUTO or 3.58 position (see page 8), however if [NTSC INPUT SELECT] is in this position when recording a NTSC 3.58 signal, no colour is available for the PAL TV. Once the recording is completed, you then need to select [on PAL TV] to view the recording in colour on PAL TV.
- On some TVs, the playback picture may roll up or down. If your TV has V-HOLD control or equivalent adjustment function, use it to adjust the picture.

Note for only NTSC Playback on PAL system TV

This function is designed to allow only the playback of tapes recorded by NTSC signals on a PAL system TV. The NTSC signal is not completely converted to a PAL signal. For this reason, images play back by this function cannot be recorded correctly on other VCRs.

Convenient Automatic Functions

VCR Auto Power On

When you insert a video cassette, the VCR switches on automatically.

Auto Playback Start

When you insert a video cassette with a broken erasure prevention tab, playback starts automatically without press [PLAY] (8).

VCR-off Playback

When the VCR is off, the inserted cassette can be played back by pressing [PLAY] (8).

Auto Rewind

When the tape reaches the end, the VCR automatically rewinds it to the beginning.

- This function does not work during timer recording, OTR recording and fast-forwarding.

Automatic Switching Off and Ejection

When the VCR is switched off, the inserted cassette can be ejected simply by pressing [STOP/EJECT] (40). The VCR will eject the cassette and automatically turn itself off again.

To Eject Video Cassette Using the Remote Control

Keep [STOP] (12) pressed for at least 3 seconds.

Recording

Preparations

- Confirm that the VCR is on.
- Confirm that the TV is on and the VCR viewing channel is selected.

Operations

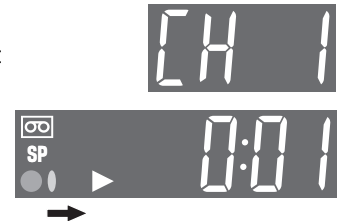
1 Insert a video cassette with an intact erasure prevention tab.

- If it has already been inserted, press [VCR-ON/OFF] (1) to turn the VCR on.

2 Select the TV station using [CH] (20).

- It is also possible to select by pressing [Numeric] (3).

3 Press [REC] (15) ([REC/OTR] (39)) to start recording.



4 Press [STOP] (12) to stop recording.

To Select the Desired Rec Mode

Press [REC MODE] (33) before recording.

- SP provides standard recording time, optimum picture and sound quality.

LP provides double recording time with slightly reduced picture and sound quality.

EP provides triple recording time with slightly reduced picture and sound quality.

When you play back a tape recorded in the EP mode, the monaural sound may be unstable.



When you start the recording in the EP mode, [EP] indication on the VCR display flashes for about 8 seconds.

EP mode means Super Long Play (SLP).

To Pause Recording

Press [PAUSE/SLOW] (29)

during recording.

Press it again to continue recording.



To View One TV Programme while Recording Another TV Programme

After pressing [REC] (15) to start recording, select on your TV the programme position of the TV programme that you want to view.

To Prevent Accidental Erasure of Recorded Contents

Break out the erasure prevention tab after recording.

If you insert a video cassette with a broken out erasure prevention tab and press [REC] (15) ([REC/OTR] (39)), the [] indication flashes on the VCR display to indicate that recording is not possible.

To record this video cassette again, cover the tab hole with two layers of adhesive tape.

To Display the Approximate Remaining Tape Time

The remaining tape time can be displayed in the VCR display.

- 1 Select [TAPE SELECT] from the On Screen Display and select the corresponding video cassette tape length. See page 8.
- 2 Press [STATUS/ NAVI CHECK] (32) repeatedly until the Remaining Tape Time appears on the VCR display.



For certain cassettes, the remaining tape time may not be displayed correctly.

To reset the tape counter

Press [RESET] (31) to reset the tape counter (elapsed time) to [0:00].

- The tape counter is automatically reset to [0:00] when a video cassette is inserted.
- The tape counter is reset to [0:00] when you operate the Jet Rewind function and the tape is rewound to the beginning.

Notes:

- When playing back a cassette recorded in the LP or EP mode, some pictures and sound distortion may occur. However, this is not a malfunction.
- The recording pause mode will be automatically cancelled after 5 minutes and return to the stop mode.
- The tape recorded in the EP mode on this VCR cannot be played back on the other VCR without EP mode function.
- On the other VCR (even with EP mode function), when you play back the tape recorded in the EP mode, the picture and the sound may be distorted. However, this is not a malfunction.

Recording of Stereo or Bilingual Programmes

- 1 Recording is automatically made in the stereo or bilingual mode. This prevents errors in the selection of the dubbed or the original language.
- 2 During playback press [AUDIO] (22) to select the desired sound mode. (See page 7.)

The NICAM Broadcast System

The VCR is equipped with the NICAM sound system. NICAM is a 2 channel sound broadcast system to provide either a high quality stereo sound track or 2 independent MONO sound tracks, M1 and M2.

NICAM programmes are always accompanied by standard sound broadcasts and you can select the desired sound with [AUDIO] (22) during playback.

- The NICAM digital stereo sound can only be recorded on the Hi-Fi audio track.
- When NICAM programme is being received, the indicators are lit to inform you the type of broadcast. (See page 7.)
- To record the regular sound (ordinary normal sound) on the FM audio tracks when a NICAM programme is received, set [MONAURAL] to [ON]. (See page 9.)
- To hear stereo performance connect as shown on page 4 to a TV or Stereo Amplifier with left and right audio inputs.

Important Note for the NICAM System

When The VCR is switched on, the tuner will automatically switch to a NICAM broadcast, if NICAM is being transmitted. At this time the NICAM signal is transmitted on stereo channels only, since the M1 and M2 formats are not yet available. Even if the sound track is MONO, the stereo indicator will appear.

To Record the Present Date and Time (OSD Recording) on the same screen as the picture

This function allows you to record the present date and time on the same screen as the picture being recorded.

Operations

- 1 Set [OSD REC] to [ON]. (See page 9.)
- 2 Press [REC] (15) ([REC/OTR] (39)).
- 3 Press [STOP] (12) to stop recording.



Note:

- This function is also activated for OTR recording and Timer recording.

To Select the Recording Duration and Perform Timer Recording (OTR Recording)

OTR means One-Touch Recording and is called this way, because you can start recording and select the recording duration by repeatedly pressing a single button. This is very convenient, for example when you want to start recording immediately but need to go out or want to go to bed. After the selected recording duration has elapsed, recording stops and the VCR automatically switches off.

To Perform an OTR Recording:

- 1 Display the VCR picture on the TV.
- 2 Insert a video cassette with an intact erasure prevention tab.
- 3 Press [CH] (20) to select the programme position on which the TV programme to be recorded will be broadcast.
- 4 Press [REC/OTR] (39) to start recording.
- 5 Press [REC/OTR] (39) repeatedly to select the desired recording duration.
 - Every time you press this button, the recording duration indicated in the VCR display changes in the following order.
 - For example, if you select [30], the VCR records a programme for 30 minutes.

Counter display (normal recording mode) → 30 (min.) → 60 (min.) → 90 (min.) → 120 (min.) → 180 (min.) → 240 (min.) → Counter display (normal recording mode)

To Stop the OTR Recording Before the End:

Press [STOP] (12).

Notes:

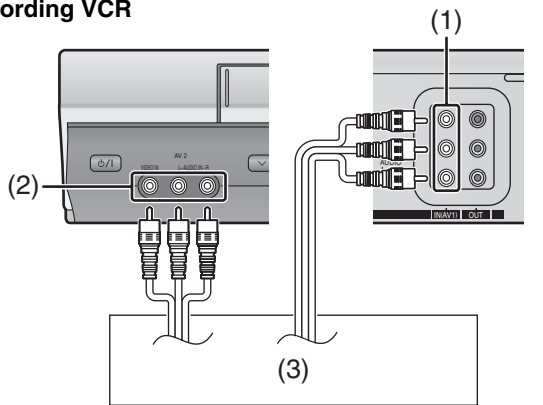
- The OTR function works during normal recording.
- When the tape reaches its end during OTR recording, the VCR will turn itself off.

Recording from an external source

This function can be used to make up an edited tape from other recordings or video sources.

A new scene can be added to the end of previous one.

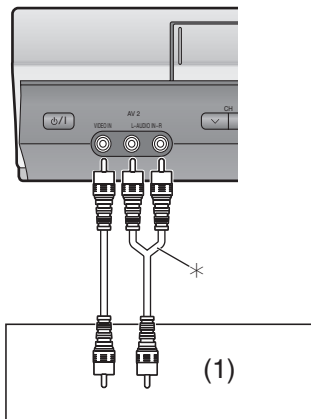
Recording VCR



- (1) AV 1
(VIDEO IN (42)/AUDIO IN (45))
- (2) AV 2
(VIDEO IN (35)/AUDIO IN (36))
- (3) Other VCR or Video movie camera

Preparations

- Connect a video movie camera or another VCR to this VCR as shown.
- Display the VCR picture on the TV.
- Insert the cassette on which the copying is to be performed, and make sure that its erasure prevention tab is not broken out.
- Select the audio/video source required by pressing [INPUT SEL] (6) to set A1 or A2.
 - A1: Through the AV1 (AUDIO IN/VIDEO IN) sockets.
 - A2: Through the AV2 (AUDIO IN/VIDEO IN) sockets on front panel.
- Use the L and R connectors for operations in the normal (monaural) mode.



- (1) Other VCR or Video movie camera
- * Audio Cable (Not supplied)

Operations

- 1 Press [PLAY] (8) to start playback.
- 2 At the point where you want to join a new scene, press [PAUSE/SLOW] (29) to put it in the still playback mode.
- 3 Press [REC] (15) to put it in the recording pause mode.
- 4 Start playback on the source unit and search for the point from which you want to record (copy) onto this VCR.
- 5 When that point is reached, press [PAUSE/SLOW] (29) again to start recording the new picture and sound from the playback unit.
- 6 To record (copy) additional scenes, press [PAUSE/SLOW] (29) to put this VCR in the recording pause mode and then perform above steps 4 and 5 again.
- 7 At the point where you want to stop recording, press [STOP] (12) to finish recording.



Note:

- If you leave the VCR in the recording pause mode for more than 5 minutes in step 3 or 6, the VCR automatically switches over to stop mode to protect the video heads.

To Delete all of a Cassette's Contents (Tape Refresh Function)

You can delete a cassette contents (the picture, the sound and the Jet Navigator data) all at once.

Operations

- 1 Be sure to set [JET NAVIGATOR] to [ON] when you want to delete all contents of a cassette that is recorded while setting [JET NAVIGATOR] to [ON]. Be sure to set [JET NAVIGATOR] to [OFF] when you want to delete all contents of a cassette that is recorded while setting [JET NAVIGATOR] to [OFF] or is recorded on another VCR. (See page 8.)
- 2 Insert a cassette that you want to delete the cassette contents.
- 3 Press [MENU] (9) to display the Main menu on the screen.
- 4 Press [▼▲] (28) to select the [TAPE REFRESH], and then press the [ENTER] (26).
 
- 5 Press [ENTER] (26) for 2 seconds or more to start the tape refresh function.
 - When the tape refresh function is working, the remaining tape time appears on the VCR display.
 

The tape is rewound to the beginning, and it is fast-forwarded with the tape refresh function.

When the tape reaches the end, the VCR automatically rewinds it to the beginning.

Note:

- When a video cassette with a broken off erasure prevention tab is inserted, this function is not activated.

Timer Recording

Easy Timer Programming

Up to 16 timer programmes, including weekly and daily programmes, can be recorded up to one month in advance by setting the timer.

Preparations

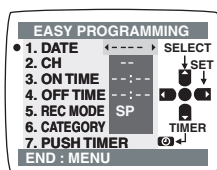
- The VCR must be turned on, or in timer recording standby mode.
 - Confirm that the TV is on and the VCR viewing channel is selected.
 - Insert a video cassette with an intact erasure prevention tab.
 - Check that the clock is set to the correct time. If it has not been set, refer to page 7.
 - When [JET NAVIGATOR] is set to [ON] (See page 8), you can set the category.
- Alternatively, you can see the category on the Navigator list. (See page 15 for details.)

Operations

In case of [JET NAVIGATOR] is set to [ON];

1 Press [PROG] (7) to display the menu for timer programme on the TV screen.

2 Press [◀▶] (28) to set the date on which the TV programme will be broadcast, and press [▼] (28).



3 Press [◀▶] (28) to select the programme position of the desired TV station, and press [▼] (28).

4 Press [◀▶] (28) to set the starting time, and press [▼] (28).

- When [◀▶] (28) is kept pressed, the indication changes in 30-minute steps.

5 Press [◀▶] (28) to set the ending time, and press [▼] (28).

6 Press [◀▶] (28) to set the desired Rec Mode, and press [▼] (28).

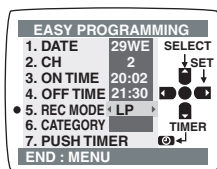
- SP provides standard recording time, optimum picture and sound quality.

LP provides double recording time with slightly reduced picture and sound quality.

EP provides triple recording time with slightly reduced picture and sound quality.

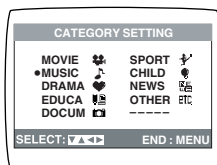
Regarding the [A] indication, refer to page 14.

When you play back a tape recorded in the EP mode, the monaural sound may be unstable.

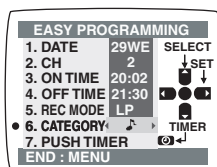


7 Press [◀▶] (28) to select the Category. Then, select the desired category by pressing [▼▲◀▶] (28).

- When [JET NAVIGATOR] is set to [OFF] (See page 8), proceed to step 9.



8 Press [MENU] (9) to make the previous display appears.



9 Press [TIMER (REC)] (14) to switch the VCR over to the timer recording standby mode.

- When [JET NAVIGATOR] is set to [ON] (see page 8), the [PROGRAMME IS COMPLETE. REMAINING PROGRAMME 49.]* message appears.

- When [JET NAVIGATOR] is set to [OFF] (see page 8), the [PROGRAMME IS COMPLETE.]* message appears.

* These messages will not appear if timer recording is started immediately after [TIMER (REC)] (14) is pressed.

To Suspend the Timer Recording Standby Mode

When you want to use the VCR for playback, normal recording or some other operation before the programmed timer recording perform, you can temporarily suspend the timer recording standby mode by pressing the [TIMER (REC)] (14) so that the [⊕] indication on the VCR display disappears and the [TIMER (REC)] (14) on the main unit put out the lights.

However, after you have finished using the VCR, be sure to reactivate the timer recording standby mode by pressing the [TIMER (REC)] (14) again otherwise the programmed timer recording will not be performed.

Weekly and Daily Timer Recording

In step 2 of Easy Timer Programming, select the desired day by pressing [◀] (28).

Current date ↔ Weekly ↔ Daily

↔ the day before one month ↔ Current date...

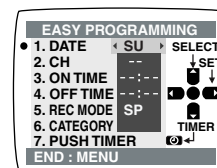
Weekly:

SU=Sunday, MO=Monday, TU=Tuesday, WE=Wednesday, TH=Thursday, FR=Friday, SA=Saturday

Daily:

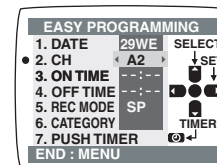
Daily recording	On Screen Display
Monday to Friday	MO-FR
Monday to Saturday	MO-SA
Sunday to Saturday	SU-SA

For example, SU (Sunday)



Timer Recording from an External Signal Source

If timer recording is performed by a unit connected to the Audio/Video input sockets, select the A1 or A2 indicator in step 3 of Easy Timer Programming for the programme position.



Setting other Programmes in Succession

Repeat steps 1-9 of Easy Timer Programming.

Programming a Timer Recording of a TV Programme Until its End (Rec Mode Auto Change Function)

If the VCR determines that the remaining tape time is insufficient to record the programme to its end during a timer recording performed in the SP mode, this function automatically changes the Rec Mode to ensure that the whole programme will be recorded.

The Rec Mode will change as follows:

PAL system: SP → LP
NTSC system: SP → EP

- This function cannot change the recording mode to the EP mode for PAL system.

Depending on the remaining tape length, recording may be performed in the LP (EP) mode from the start. However, if the remaining tape time is still not sufficient in this case, the programme cannot be recorded to the end.

The tape length must be set correctly. (See page 8.)

Some tapes may not work correctly.

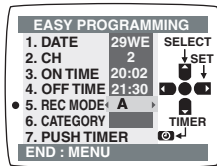
If the recording mode changes from SP to LP during a timer recording, some brief picture distortion occurs at that point.

To Activate the Rec Mode Auto Change Function:

Press [REC MODE] (33) to select [A].

- Every time you press [REC MODE] (33), the indication changes in the following order:

SP → LP → EP → A → SP



Timer recording for the same programme on the next week (Intelligent Timer)

When you wish to set the timer recording for programmes which will be recorded within 1 week and you have ever recorded the programmes before, you can record them soon with I-TIMER function without entering day and time by buttons. Select the desired setting from the list of timer programme recorded before. Please check the date and time carefully.

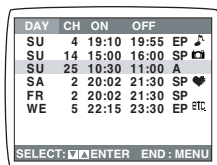
Preparations

- The VCR must be turned on, or in timer recording standby mode.
- Confirm that the TV is on and the VCR viewing channel is selected.
- Insert a video cassette with an intact erasure prevention tab.

1 Press [I-TIMER] (23) to display the menu for Intelligent Timer on the TV screen.

- The list of the timer programmes which are recorded before appears.

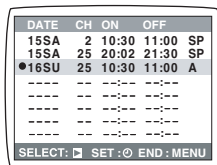
2 Press [▼▲] (28) to select the timer programme which you want to record on the next week.



3 Press [ENTER] (26).

- The Timer Programme List screen appears.

4 Press [TIMER (REC)] (14) to switch the VCR over to the timer recording standby mode.



To delete an I-Timer Programme

- 1 Press [I-TIMER] (23) then press [▲▼] (28) to select the timer programme which you want to delete.
- 2 Press [CANCEL] (5).
 - The timer programme is deleted, they cannot be restored.

Notes:

- Up to 16 I-Timer Programmes can be memorized.
- When I-Timer Programmes are increased to more than 16, the oldest one is deleted.

To check and cancel a Timer Programme

Preparations

- The VCR must be turned on, or in timer recording standby mode.
- Confirm that the TV is on and the VCR viewing channel is selected.

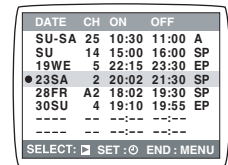
1 Press [CHECK] (24).

- The Timer Programme List screen appears.

2 Press [CHECK] (24) repeatedly to select the program.

- Every time you press [CHECK] (24), the cursor shifts below.

- Press [▶] (28) to display the category. (When [JET NAVIGATOR] is set to [ON].) Press [▶] (28) again to make the previous display appear.



3 Press [CANCEL] (5) to cancel.

4 Press [MENU] (9) to exit the On Screen Display.

Note:

- If timer recording is not completed (due to insufficient tape or cancellation by the user), the programmed timer recording data will be cancelled from the memory by 4 A.M two days later.

However, if the timer recording function is activated at that time, the programmed timer recording data will not be cancelled.

Search Functions

Jet Navigator

This VCR can display a list of the recorded programmes on the inserted video cassette on the TV screen. You can then select the desired programme, and the VCR will quickly locate its beginning and start playback.

Conditions for correct operation of the Jet Navigator function:

- The tape length of the inserted cassette must be set correctly. (See page 8.)
- The VCR must not be in the timer recording standby mode.
- A programme at least 15 minutes must be recorded on the tape.

Preparations

- Display the VCR picture on the TV.
- Be sure to set [JET NAVIGATOR] to [ON] (see page 8) and perform recording.

Operations

1 Press [NAVI] (25) to display the Jet Navigator list.

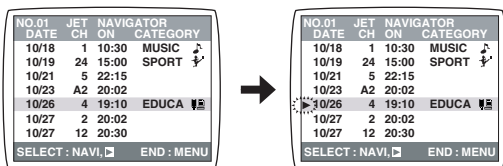
- Up to 14 programme data that have been recorded are displayed on the Jet Navigator list.

(7 programme data for each page)

- When more than 14 programs have been recorded in one cassette, the programme data are deleted from the first one.
- When pressing [NAVI] (25) during playback, playback stops and the Jet Navigator list appears.

2 Press [NAVI] (25) several times to select the programme that you want to locate and play back. After more than 3 seconds, the VCR starts to search for the beginning of the selected programme and playback starts automatically.

- Every time you press [NAVI] (25), the cursor shifts above.

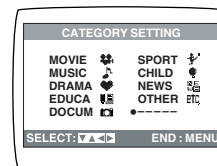


To Cancel the Jet Navigator list:

Press [MENU] (9).

To Set the Category

The category setting allows you to find what kind of programmes are recorded by the character and the icon indications.



- 1 Press [▶] (28) while the Jet Navigator list appears. Then, select the desired category by pressing [▼ ▲ ◀ ▶] (28).

Category	Indication	Icon
MOVIE	MOVIE	
MUSIC	MUSIC	
DRAMA	DRAMA	
EDUCATION	EDUCA	
DOCUMENTARY	DOCUM	
SPORTS	SPORT	
CHILDREN	CHILD	
NEWS	NEWS	
OTHERS	OTHER	

- 2 Press [MENU] (9).

To Delete the Jet Navigator Data of a Single Video Cassette Tape

Keep [CANCEL] (5) pressed for more than 5 seconds while the Jet Navigator list appears.

[—] appears on the list.

See page 8 to delete all the Jet Navigator data stored in the VCR memory.

Notes:

- The Jet Navigator list is stored in each cassette. Up to 20 cassettes and 50 programmes can be registered.
- Signals approximately 10 seconds before and after the current tape position are checked. (During this checking, [CHECKING JET NAVIGATOR DATA.] is displayed on the TV screen.)
- Checking cannot be performed properly where there are no signals such as at unrecorded portions of the tape. In this case, press [NAVI] (25) at a portion of the tape where a programme has been recorded of this VCR. This will allow signal checking to be performed more reliably. When a signal is still not found, [CAN NOT FIND JET NAVIGATOR DATA.] is displayed on the TV and you cannot find the beginning of the programme.
- [PROGRAMME IS COMPLETE. REMAINING PROGRAMME 0. DELETE JET NAVIGATOR DATA.] appears when you try to store more than 50 programmes. The new item is added and the oldest item is deleted.
- When programmes equivalent to 20 cassettes are already stored in memory, [REMAINING CASSETTE 0. FOR JET NAVIGATOR.] is displayed after Jet Navigator data checking is performed. Programmes recorded without deleting data are not registered in the list.
- The list does not appear when playing tapes recorded on other equipment.
- When recording over the same location on a tape, it may not work correctly.

Confirming the cassette which includes a programme you want to watch (Jet Navigator Memory)

This allows you to search the cassette which you recorded the programme you want to watch without inserting video cassette tapes.

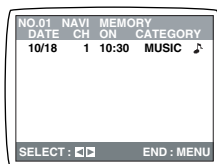
Preparations

- Display the VCR picture on the TV.
- **You can only search for cassettes recorded in timer recording with setting [JET NAVIGATOR] to [ON] (See page 8) on this VCR in the past.**

1 Press [MENU] (9) to display the Main menu on the TV screen.

2 Press [▼▲] (28) to select [NAVI MEMORY 1*PROG.] then press [ENTER] (26).

- NAVI MEMORY Screen appears.
- The programme list for 1 cassette is displayed per 1 screen.
- Up to 20 cassettes can be selected on this VCR and displayed on the NAVI MEMORY Screen.



- * The number of Jet Navigator Data memorized on this VCR is displayed.

3 Press [◀▶] (28).

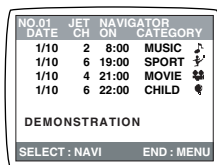
- The display can be switched for each cassette (programme list).

To Cancel the NAVI MEMORY Screen:

Press [MENU] (9).

To Demonstrate the Jet Navigator Function

Keep [NAVI] (25) pressed for more than 5 seconds without inserting a cassette tape.

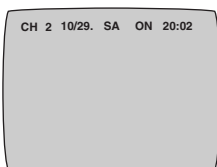


To Cancel the Demonstration of Jet Navigator Function:

Press [MENU] (9).

To Check the Recorded Programming Data (Time Stamp Function)

When playback starts after searching with Jet Navigator function or index search function, recorded programming data (called Time Stamp) appears on the TV screen for approx. 5 seconds.



Note:

- Time Stamp does not appear if the beginning of the Jet Navigator data is not recorded 10 minutes before and after the current tape position even when index signals are recorded.

To Find the Beginning of Each Recording (VHS Index Search System)

This VCR automatically records special index signals on the tape every time a recording is started. The Index search function makes use of these index signals to let you find the beginning of a desired programme quickly and easily.

Index signals are automatically recorded in the following cases:

- When you start a recording by pressing [REC] (15) or [REC/OTR] (39).
- When a timer recording starts.
- When you press [REC] (15) on the remote control during recording.

Conditions for correct operation of the Index search function:

- The VCR must be in the stop mode or in the playback mode.
- Each programme recorded on the tape must be at least 5 minutes long.

Preparations

- Display the VCR picture on the TV.
- Insert a recorded video cassette.

Operation

1 Press [INDEX] (13) (that corresponds to the direction from the current tape position in which the desired programme is located on the tape) to start the index search.

For example, if you want to search for the 2nd recorded programme in forward direction, press [INDEX] (13) (▶▶) twice.



- The VCR fast-forwards or rewinds the tape and searches for the specified index signal (the beginning of the desired recorded programme). When it is found, playback starts automatically.

To Cancel the Index Search or to Stop Playback:

Press [STOP] (12).

Notes:

- Searching in either direction is possible up to the 20th index signal.
- If you press either of [INDEX] (13) too many times, simply press the other [INDEX] (13) (indicating the opposite direction) to correct it. In this way, you can reduce the displayed figure down to 1.
- The figure on the VCR display decreases by 1 every time an index signal is located.

Finding a Timer-recorded programme for viewing (Easy Programme Playback)

Allows you to find a timer-recorded programme with One-touch operation and to play it back easily.

Preparation

Set timer recording for the programme you wish to view.

Operation

1 Press [PROG PLAY] (21).

- As soon as the timer-recorded programme is found, playback starts automatically.



To Cancel the Easy Programme Playback:

Press [STOP] (12).

Notes:

- The VCR memorises the position at which timer recording is set to the standby mode by pressing [TIMER (REC)] (14) as the start point of Easy Programme Playback.
- If you take out the cassette after a timer recording has finished, Easy Programme Playback function does not work.

Before Requesting Service

Message of On Screen Display

The error message is indicated in brackets [].

[PLEASE PUT IN A VIDEO CASSETTE.]

- [REC/OTR] (39) ([REC] (15) or [TIMER (REC)] (14) has been pressed without a video cassette inserted.

→Insert a video cassette.

[PLEASE STOP THE TAPE.]

- [TUNER PRESET] has been selected during playback.

→Stop the tape.

[PLEASE SET THE CLOCK.]

- [TIMER (REC)] (14), [PROG] (7), [I-TIMER] (23) or [CHECK] (24) has been pressed when the clock is not set.

→Set the clock.

[PLEASE USE A CASSETTE WITH TAB.]

- [REC/OTR] (39), [REC] (15) or [TIMER (REC)] (14) has been pressed with a video cassette without an erasure prevention tab.

→Use a video cassette with an intact erasure prevention tab.

[NO TIMER RECORDING HAS BEEN SET.]

- [TIMER (REC)] (14) has been pressed with no timer programmes.

→Set timer recording.

[VCR IS IN THE TIMER STANDBY MODE.]

- [VCR-ON/OFF] (1) has been pressed during the timer standby mode.

→Press the [TIMER (REC)] (14) to release the VCR from the timer standby mode.

[CAN NOT FIND PROG PLAY DATA.]

- [PROG PLAY] (21) has been pressed with no programmed timer recording data.

→Set timer recording.

The VCR will not operate correctly

The symptom description is indicated in brackets [].

[The VCR display is not illuminated.]

- The mains lead has not been connected.

→Connect the mains lead to the mains supply.

[The VCR display is illuminated but the VCR will not operate.]

- The VCR is in the timer mode. (The ⊖ indication and the [TIMER (REC)] (14) on the main unit are flashed or lit up.)

→Press the [TIMER (REC)] (14) to operate the VCR manually.

- Safety devices are operating.

→Disconnect the mains lead and wait for 1 minute.

Reconnect the mains supply and check functions.

- Dew may have formed.

→Do not operate the VCR for 1 hour.

Playback will not operate correctly

The symptom description is indicated in brackets [].

[The picture is noisy or is not in colour. Horizontal bars or lines run down the screen.]

- Tracking is not correct.

→Adjust the tracking. See page 18.

- The TV has not been tuned to the VCR.

→Tune the TV to the VCR. See page 5.

- The video heads are clogged or worn.

→Consult your dealer for further advice.

- The playback picture is distorted when using an E300 type video cassette that was recorded in the LP or EP mode.

→We recommend that you use video cassettes other than type E300.

- The playback picture is distorted when record the tape in the EP mode using MESECAM system.

→However, this is not a malfunction.

→We recommend PAL system for recording in the EP mode.

Recording will not operate correctly

The symptom description is indicated in brackets [].

[The ⊖ indication flashes whenever recording is attempted.]

- The erasure prevention tab on the video cassette has been broken off.

→Use a tape with an intact erasure prevention tab, or cover the tab hole with adhesive tape, if the original recording is no longer required.

[The picture is recorded with noise or a blank screen.]

- The aerial or aerial cable is defective.

→Check the aerial connection to the VCR. See page 4.

→Check your normal TV picture. If there is no picture, check your aerial.

- The VCR is not correctly tuned.

→Retune the VCR. See pages 5-6.

- A1 or A2 has been selected.

→Select the required TV programme.

[Timer recording cannot be performed.]

- The clock or calendar has been incorrectly set.

→Check the clock and calendar. Set them to the present time. (Note that this is a 24-hour clock.)

See page 7.

- The recording starting or ending time setting is incorrect.

→Set the recording starting and ending time correctly.

- The VCR has not been set for timer recording.

→Press [TIMER (REC)] (14) after programming for timer recording.

[AV external recordings cannot be made.]

- A1 or A2 has not been selected.

→Select A1 or A2 by pressing [INPUT SEL] (6).

- External AV connections are incorrect.

→Check that the connections for external video and audio sources are correct. See page 12.

The remote control will not operate correctly

The symptom description is indicated in brackets [].

[The remote control does not operate correctly.]

- The remote control transmitter beam is not reaching the VCR.

→Ensure that the remote control is being pointed at the VCR and that the transmitter beam is not obstructed.

- The distance is too far.

→Use the remote control within 7 m of the VCR.

- The batteries are exhausted.

→Replace the batteries. See the precautions for replacement on page 2.

- The batteries are incorrectly fitted with (+/−) reversed.

→Fit the batteries correctly as shown on page 2.

- The remote controller signal sensor is exposed to strong light source such as direct sunlight or inverted fluorescent light.

→Keep strong light source so far away from the remote controller signal sensor as possible.

Crystal View Control

The crystal view control function ensures that you always obtain the optimum picture quality so that you get the best picture automatically.

Adjusting the Playback Picture

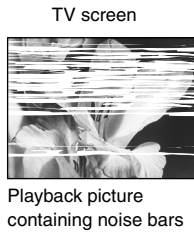
Under normal conditions, the VCR automatically adjusts the playback picture for optimum quality. However, in some cases it may be necessary to adjust it manually.

If the Picture Contains Noise Bars and It Is Not Clear to See (Tracking adjustment):

If noise bars appear during normal playback, slow playback or still playback, follow the operations below.

During normal or slow playback, press [TRACKING/V-LOCK] (20) + or – until the noise bars disappear.

- If the noise bars appear during still playback, switch the VCR over to the slow playback mode and then adjust the tracking as explained above.



To Return to Auto Tracking:

Press both [TRACKING/V-LOCK] (20) + and – simultaneously.

If the Still Picture shaking (V-Lock Adjustment):

If the still picture shakes, perform the following operation. During still playback, keep [TRACKING/V-LOCK] (20) + or – pressed until the picture stops shaking.

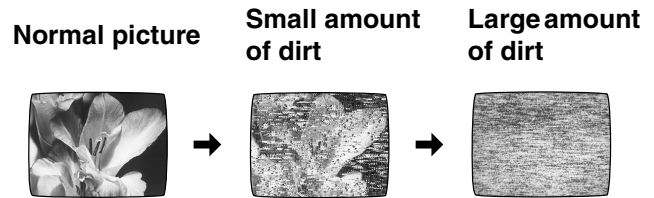
Precautions:

- With certain TV models and tapes, it may not be possible to adjust the tracking.
- If you play back a cassette that was recorded on another VCR, the picture quality may be inferior and it may be necessary to adjust the tracking. Also, on some TVs, the picture may shake in the special playback functions. However, these are not malfunctions.

Dirt on the video heads

If the video heads get dirty, pictures will not be recorded or played back clearly.

(See the following conditions.)



If this happens, insert and eject a cassette 5-10 times successively to remove the dirt from the video heads.

If the problem still persists after performing above, contact a service personnel to request assistance.

Specifications

NV-HV62GH

Power Source:	110–240 V AC 50/60 Hz
Power Consumption:	13 W

Video Recording System:

2 rotary heads, helical scanning system

Video Heads: 4 heads

Audio Heads: 2 heads (Hi-Fi)

Tape Speed: PAL SP; 23.39 mm/s
LP; 11.7 mm/s
EP; 7.8 mm/s
NTSC SP; 33.3 mm/s
EP; 11.1 mm/s

Tape Format: VHS tape

Record/Playback Time:

PAL SP; 240 min with NV-E240
PAL LP; 480 min with NV-E240
PAL EP; 720 min with NV-E240

FF/REW Time: Approx. 60 s with NV-E180 (FF/REW)
Approx. 43 s with NV-E180 (Jet Rewind)

VIDEO

Television System:

CCIR; 625 lines, 50 fields,
PAL colour signal
EIA; 525 lines, 60 fields,
NTSC colour signal

Modulation System:

Luminance; FM azimuth recording
Colour signal; converted subcarrier phase
shift recording

Input Level: VIDEO IN (PHONO); 1.0 Vp-p,
75 ohm, terminated

Output Level: VIDEO OUT (PHONO); 1.0 Vp-p,
75 ohm, terminated
RF Modulate; UHF Channel
E21–E69 75 ohm

AUDIO

Input Level: AUDIO IN (PHONO); –6 dBV,
more than 47 kohm

Output Level: AUDIO OUT (PHONO); –6 dBV,
less than 1 kohm

Audio Track: 1 track (Normal-mono only),
2 channels (Hi-Fi sound-stereo)

Video Horizontal Resolution:

Colour; more than 240 lines (SP)

Signal-to-Noise Ratio:

Video; more than 43 dB (SP)
Audio; more than 65 dB (Hi-Fi)

Dynamic Range: Audio; more than 90 dB (Hi-Fi audio track)

Audio Frequency Response:

20 Hz–20 kHz/Hi-Fi

Wow and Flutter: 0.005% Wrms/Hi-Fi

Operating Temperature:

5°C–40°C

Operating Humidity:

35%–80%

Mass: 2.6 kg

Dimensions: 360 mm (W) × 89 mm (H) × 226 mm (D)

Standard Accessories:

1 pc. AC Mains Lead
1 pc. RF Coaxial cable
1 pc. Remote Control
2 pcs. R6 size batteries
1 pc. Audio/Video cable

Mass and dimensions shown are approximate.

Specifications are subject to change without notice.

目錄	頁碼
警告及重要信息	20
控制與組件	21
連接	22
將電視機調諧至您的錄影機	23
將電視廣播頻道存入您的錄影機	23
設定錄影機的時鐘	25
用屏幕顯示進行設定	25
選項設定	26
放影	27
錄影	28
定時錄影	31
尋影功能	33
要求服務之前	35
規格	封底

在試圖連接、操作或調節本產品之前，請仔細閱讀本說明書。

警告及重要信息

由於該設備在使用中會發熱，因此，請在通風良好處進行操作；

勿將該設備置於書櫃或類似物體的封閉空間內。

警告：

爲了減少火災、觸電或產品損壞之危險，請勿讓該設備遭雨淋、受潮、被滴水或濺水，且應確保該設備之上未放置任何盛有液體的物品，如花瓶等。

重要事項

請注意，對原影帶、影像盤以及其它出版物或廣播材料進行錄影時，可能會引起侵犯版權的問題。

爲了您的安全

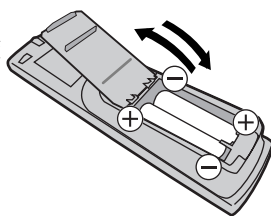
請勿取下外蓋。

觸摸錄影機的內部零件很危險，可能會嚴重損壞該機。

爲防止觸電，請不要拆卸外殼。本機內沒有用戶可以維修的部件。請將所有維修工作委託給合格的維修人員。

插入遙控器電池

插入電池，將其極性(⊕和⊖)正確地對好。



注意：

電池的使用壽命約爲 1 年。然而，它在相當大的程度上將取決於使用次數。

- 當電池耗盡時，請用 2 節 AA、UM3 或者 R6 型電池將其更換。
- 當電池耗盡時，應立即將其取出，並妥善處理。
- 請勿混用新舊電池。
- 勿混用不同類型的電池，如鹼性電池和錳電池等。
- 請勿使用可充電 (Ni-Cd) 電池。
- 請勿對電池加熱，或者使其短路。
- 如果您打算長期不用遙控器時，請取出電池，並將其置於陰涼乾燥處。

長壽命磁頭系統

該長壽命磁頭系統可以用極高的畫質，進行約 8,000 小時的錄影和放影。

新開發的具備更窄的磁頭窗口的磁頭圓柱和錐形圓柱設計，有效地防止了磁頭灰塵污染和磁頭堵塞。

並且，[氧化鋁]磁頭清潔器進一步改善了清潔效能。

- 上述壽命基於用 Panasonic 錄影帶進行的內部測試。實際磁頭壽命可能會因使用狀況、磁帶類型、溫度或濕度等條件而有所不同。

操作該錄影機之前的注意事項

應避免：

- 濕氣和灰塵。
- 如直射陽光等高溫。
- 磁性或電磁物體。
- 觸摸錄影機內部零件。
- 水或某些其它液體。
- 雷擊。(在雷雨暴風天氣，請從錄影機上拔掉天線插頭。)
- 將任何重物擱置在錄影機上。
- 用濕手連接或操作該設備。
- 在錄影機附近使用手機，因爲這樣做可能會產生對畫面和聲音帶來不利影響的雜訊。

應該：

- 用乾淨的乾布擦拭錄影機。
- 將錄影機安放在水平位置。
- 在完成所有的連接之後，才能打開錄影機、電視機和其它設備。

在下列情況下，可能會形成冷凝：

- 錄影機從較冷的環境移到一間充分加熱的房間裡。
- 錄影機從較涼爽的環境，例如一間有空調的房間或者汽車裡，突然移至一個很熱且較潮濕的地方。

注意：

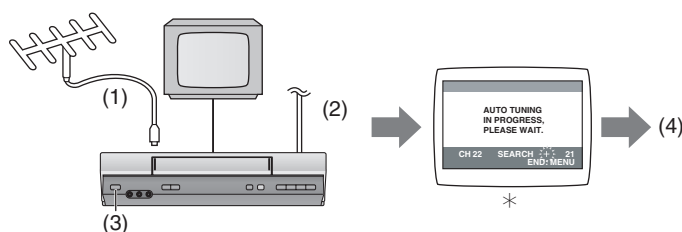
- 在上述任何情況下，至少 1 小時之內請勿操作錄影機。該錄影機未裝備濕敏元件。

按 [VCR-ON/OFF] 按鈕 (1)，可將錄影機從開啓狀態切換至待命狀態，或者相反。在待命狀態下，錄影機仍與電源接通著。

設備應放在交流電源輸出插孔附近，電源插頭應放在出現故障時能夠便於插拔之處。

插入式自動調諧

(設置示意圖)



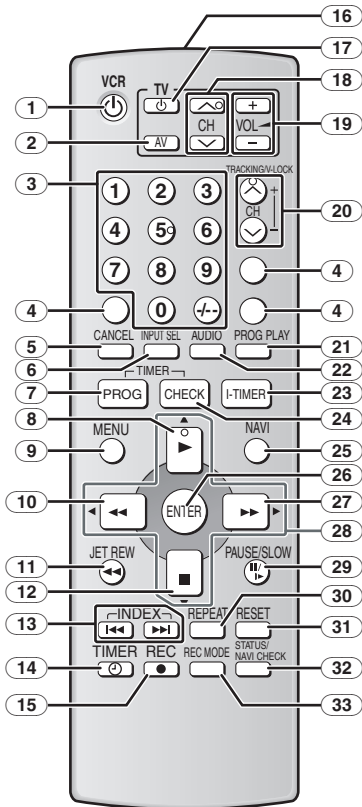
- (1) 連接天線纜線。
- (2) 連接電源線。
- (3) 按 [VCR-ON/OFF] 按鈕 (1)。
- (4) 插入式自動調諧完成。

* 屏幕顯示

本機將自動調諧該地區能接收的所有廣播電台，並將其儲存在記憶中。

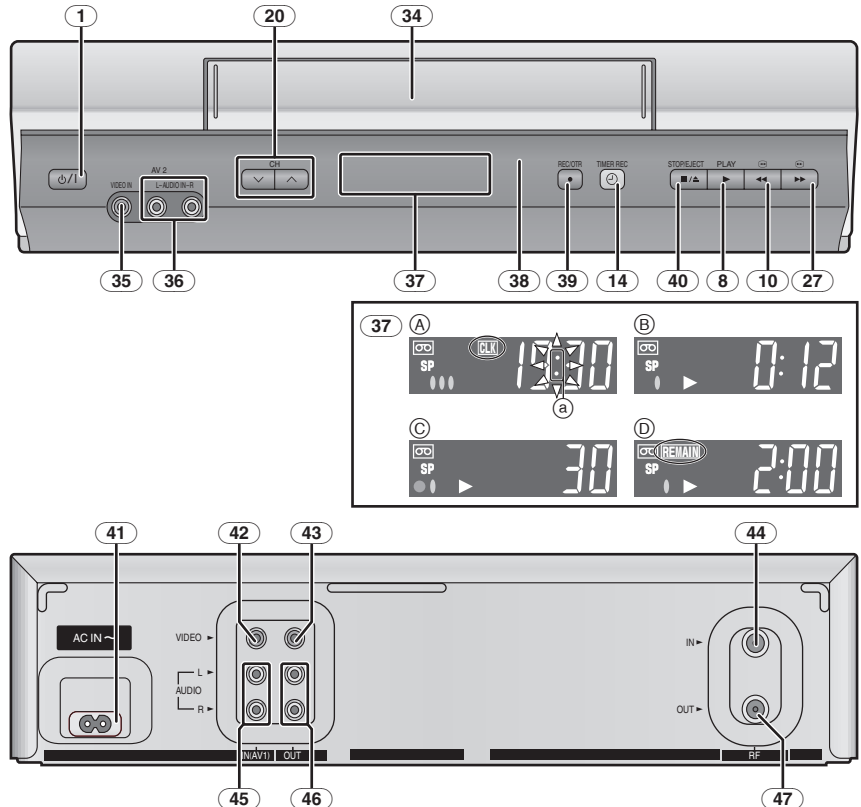
- 勿中途關閉錄影機。(請參見第 23 頁。)

控制與組件



錄影機操作

- ① [VCR-ON/OFF] (錄影機開/關) 按鈕
- ② [AV] (音頻視頻) 按鈕
- ③ [數字] 按鈕
可選擇錄影機的節目位置 (1-99)。
• 例如： 9: ⑨
19: ① → ⑨
可輸入各種設定的數字。
- ④ 無功能按鈕
- ⑤ [CANCEL] (取消) 按鈕
- ⑥ [INPUT SEL] (輸入選擇) 按鈕
- ⑦ [PROG] (編排) 按鈕
- ⑧ [放影] 按鈕
- ⑨ [MENU] (菜單) 按鈕
- ⑩ [倒帶] 按鈕
- ⑪ [JET REW] (飛速倒帶) 按鈕
- ⑫ [停止] 按鈕
- ⑬ [INDEX] (索引) 按鈕
- ⑭ [TIMER (REC)] (定時器(錄影)) 按鈕
- ⑮ [REC] (錄影) 按鈕
- ⑯ 紅外線傳感器
- ⑰ [TV-ON/OFF] (電視機-開/關) 按鈕
- ⑱ [TV CH] (電視機頻道) 按鈕
- ⑲ [VOL] (音量) 按鈕
- ⑳ [CH]/[TRACKING/V-LOCK] (頻道)/(磁跡調整/垂直鎖定) 按鈕
- ㉑ [PROG PLAY] (編排放影) 按鈕
- ㉒ [AUDIO] (音頻) 按鈕
- ㉓ [I-TIMER] (智能定時器) 按鈕
- ㉔ [CHECK] (檢查) 按鈕
- ㉕ [NAVI] (導航器) 按鈕



- ㉖ [ENTER] (開始) 按鈕
- ㉗ [快進] 按鈕
- ㉘ [▼, ▲, ◀, ▶] (游標) 按鈕
- ㉙ [PAUSE/SLOW] (暫停/慢動作) 按鈕
- ㉚ [REPEAT] (重復) 按鈕
- ㉛ [RESET] (復原) 按鈕
可使磁帶計時器 (已經過時間) 復原至 [0:00]。
• 當插入錄影帶時，磁帶計時器將自動復原至 [0:00]。
- ㉜ [STATUS/ NAVI CHECK] (狀態/導航器檢查) 按鈕
- ㉝ [REC MODE] (錄影狀態) 按鈕
- ㉞ 磁帶室
- ㉟ 影像輸入插孔 (AV 2)
- ㊱ 音頻輸入插孔 (AV 2)
- ㊲ 錄影機顯示屏
A: 當前時間 (a: 僅在當前時間顯示時間閃爍。)
B: 磁帶計數器
C: OTR 錄製
D: 剩餘磁帶時間
• 關閉主機時，VCR 顯示屏會變暗。
- ㊳ 紅外線遙控器接收窗
- ㊴ [REC/OTR] (錄影/單觸錄影) 按鈕
- ㊵ [STOP/EJECT] (停止/取帶) 按鈕
- ㊶ AC 輸入插孔
- ㊷ 影像輸入插孔 (AV 1)
- ㊸ 影像輸出插孔
- ㊹ RF IN 插孔
- ㊺ 音頻輸入插孔 (AV 1)
- ㊻ 音頻輸出插孔
- ㊼ RF OUT 插孔

用遙控器進行電視機操作

您可以使用遙控器上的 [TV-ON/OFF] (電視機-開/關) 按鈕 (17)^{*1}、[AV] (音頻視頻) 按鈕 (2)^{*2}、[VOL] (音量) 按鈕 (19)^{*3} 和 [TV CH] (電視機頻道) 按鈕 (18)^{*4}，進行電視機操作。(請參見第 22 頁。)

^{*1} 可從待命狀態 (OFF) 下開啓電視機，或者相反。

對於某些電視機，利用該鈕可能祇能將電視機切換至待命狀態 (OFF)，而無法開啓。在此情況下，請試用下列按鈕之一來開啓電視機：

[AV] (音頻視頻) 按鈕 (2)
[TV CH] (電視機頻道) 按鈕 (18)

^{*2} 可選擇電視機上需要的 AV 輸入。

^{*3} 可調整電視機的音量。

^{*4} 可選擇電視機上所需的節目位置 (電視台)。

注意：

• 您不能用 [數字] 按鈕 (3) 操作電視機頻道。當您想改變頻道時，按下電視機操作部分上的 [TV CH] (電視機頻道) 按鈕 (18)。

將遙控器設定為操作電視機的狀態

設定之後，您便可用遙控器操作下列製造商的電視機。

該設定步驟可以讓您用隨機附帶的遙控器來操作某些製造商的電視機。

準備

- 打開電視機。

操作

- 1 參考下表，尋找電視機的製造商號碼。
- 2 一邊按住遙控器上的 [TV-ON/OFF] (電視機 - 開 / 關) 按鈕 (17)，一邊用 [數字] 按鈕 (3)，輸入製造商號碼。這將完成電視機製造商的設定。
 - 輸入的號碼須為兩位數。
 - 例如：1 → 01
- 3 為了確認設定是否正確，請檢查是否能正確地操作電視機。
 - 當下表中某個製造商具有多個號碼時，若電視機無法正常操作，則請輸入其它號碼試一試，然後，選擇最佳號碼。

注意：

- 如果您正在使用 Panasonic 電視機，該設定已經完成，所以您不必進行上述的設定步驟。但是，該遙控器也可能無法操作某些 Panasonic 電視機。
- 用該遙控器可能無法操作某些型號的電視機 (包括所有非遙控兼容的電視機)。

電視機與錄影機的遙控器兼容表

[品牌]	[編碼]
Panasonic/National (松下)	01-04
SONY (索尼)	05
TOSHIBA (東芝)	06
JVC	07
HITACHI (日立)	08
MITSUBISHI (三菱)	09, 10
SHARP (夏普)	11
PHILIPS, SAMSUNG (飛利浦, 三星)	12
NEC	13
SANYO (三洋)	14
GOLDSTAR/LG (金星/LG)	15, 16
SAMSUNG (三星)	17, 18
SANYO (三洋)	19

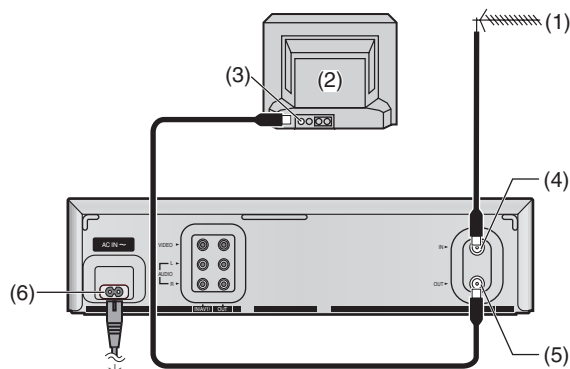
連接

該部分將告訴您如何將錄影機連接至天線和電視機等。

當拆包並連接了天線和電源線之後，開啓錄影機時，會自動開始插入式自動調諧。

基本連接

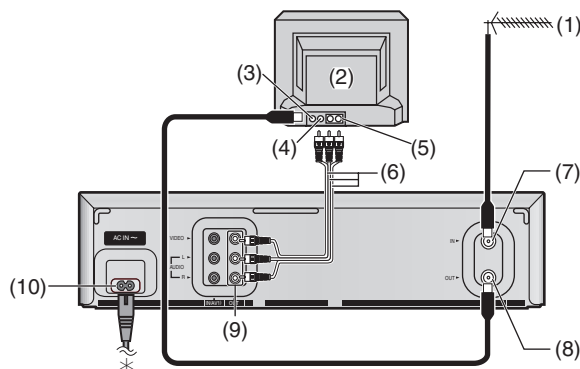
通過電視機來錄製和播放錄影帶，要進行下列連接。



- (1) 天線 (非附件)
- (2) 電視機 (非附件)
- (3) 天線連接端
- (4) RF IN 插孔 (44)
- (5) RF OUT 插孔 (47)
- (6) AC 輸入插孔 (41)
- * 至電源

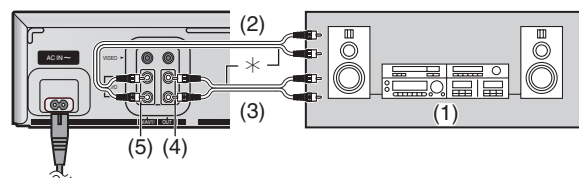
用音頻／影像輸入插孔連接至電視機：

當錄影機通過音頻／影像纜線連接至電視機時，請將錄影機的 RF 輸出頻道設定為 [—] (RF OFF)。(請參見第 23 頁。)



- (1) 天線 (非附件)
- (2) 電視機 (非附件)
- (3) 天線連接端
- (4) 影像輸入
- (5) 音頻輸入
- (6) AV 纜線 (附件)
- (7) RF IN 插孔 (44)
- (8) RF OUT 插孔 (47)
- (9) 影像輸出 (43) / 音頻輸出 (46)
- (10) AC 輸入插孔 (41)
- * 至主電源

連接至立體聲放大器：



- (1) 立體聲放大器 (非附件)
- (2) 用於錄影
- (3) 用於放影
- (4) 音頻輸出 (46)
- (5) 音頻輸入 (45)
- * 音頻纜線 (非附件)

將電視機調諧至您的錄影機

錄影機通過頻道 E21-E69 的 RF 同軸纜線提供信號至電視機。如果您已通過音頻／影像輸入插孔，將錄影機連接至電視機，那就不必依下述步驟進行操作了。要想從錄影機上觀看畫面，用 [AV] (音頻視頻) 按鈕 (2) 在電視機上設置為 AV 狀態。

準備

- 開啓電視機和錄影機。

操作

1 將電視機設定為您打算用於影像播放的未使用頻道。

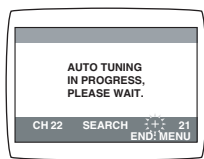
- 調諧電視機，直到屏幕上出現下面所示的顯示。(有關調諧操作，請參見電視機廠家的使用說明書。)
- 按 [◀▶] 按鈕 (28)，設定 [RF SELECT]，以選擇連接的電視機所使用的彩色電視制式。

BG : PAL B.G.H/SECAM B.G

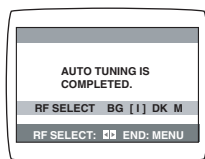
I : PAL I

DK : PAL D/SECAM D.K.K1

M : NTSC



插入式自動調諧中



插入式自動調諧後

2 按 [MENU] (菜單) 按鈕 (9)。

- 如果自動調諧中途停止，請參見右面，“重新開始插入式自動調諧”。

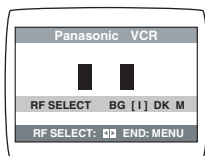
改變 RF 輸出頻道

您可改變 RF 輸出頻道，例如，在調諧後當畫面上出現干擾時。

操作

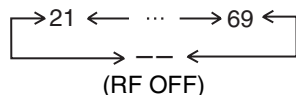
1 按住 [MENU] (菜單) 按鈕 (9) 5 秒鐘以上。

- 錄影機顯示將如下改變，且電視機上的錄影機畫面將顯示此圖形。



2 用 [數字] 按鈕 (3) 或 [CH] (頻道) 按鈕 (20)，輸入需要的頻道號碼 (E21-E69)。

- 當錄影機通過音頻／影像纜線連接至電視機時，請將錄影機的 RF 輸出頻道設定為 [--] (RF OFF)。
- 按 [CH] (頻道) 按鈕 (20)，以顯示出 [--]。



- 按 [數字] 按鈕 (3)，也可進行選擇。

例如：28: (2) → (8)

3 按 [MENU] (菜單) 按鈕 (9)，結束設定狀態。

4 重新將電視機調諧至錄影機的新 RF 頻道。

注意：

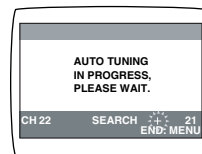
- 即使 RF 輸出頻道已經改變，也無必要進行自動調諧。

將電視廣播頻道存入您的錄影機

該錄影機具備自身的調諧器 (就像普通的電視機一樣)，最多可預調接收 99 個電視廣播電台。

插入式自動調諧

當連接了天線和電源線之後，開啓錄影機時，會開始自動調諧。



自動調諧會從 VHF 最低頻率至 UHF 最高頻率，來尋影電視台，並記憶每個調諧的節目位置。

操作中途取消自動調諧：

在自動調諧中按 [MENU] (菜單) 按鈕 (9)。自動調諧將被取消。

如果自動調諧中途停止，按照下一個步驟之一重新啓動插入式自動調諧。

重新開始插入式自動調諧：

如果自動調諧因取消或放影而中途停止；

1 按 [STOP/EJECT] (停止 / 取帶) 按鈕 (40)，取出錄影帶。

2 在錄影機打開時，同時持續按住錄影機上的 [CH] (頻道) 按鈕 (20) 的 ∨ 和 ∧ 按鈕 3 秒鐘以上。

- 錄影機上顯示的頻道會消失一會兒，然後變為 1。



3 拔掉電源線，然後重新連接。

4 關閉錄影機，然後再將其開啓。

- 即開始自動調諧。

如果自動調諧因錄影機關閉或電源故障而中途停止，或者如果錄影機沒有連接天線連接端就被打開，那麼所有頻道將被跳過：

1 拔掉電源線，然後重新連接。

2 關閉錄影機，然後再將其開啓。

- 即開始自動調諧。

用屏幕顯示進行自動調諧

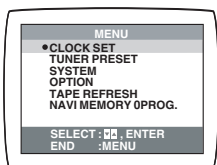
插入式自動調諧功能會自動進行錄影機的調諧。然而，如有必要，也可依下列方法，用屏幕顯示來進行自動調諧。

準備

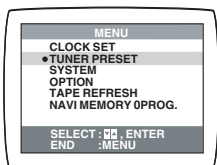
- 確認電視機已經開啓並選擇了錄影機的觀看頻道。
- 開啓錄影機，選擇 A1 或 A2 以外的任何節目位置。

操作

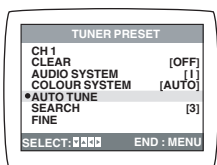
1 按 [MENU] (菜單) 按鈕 (9)，使電視屏幕上出現主菜單。



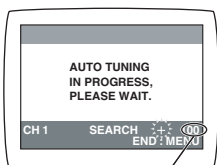
2 按 [▼▲] 按鈕 (28)，選擇 [TUNER PRESET]，然後按 [ENTER] (開始) 按鈕 (26)。



3 按 [▼▲] 按鈕 (28)，選擇 [AUTO TUNE]，然後按 [◀▶] 按鈕 (28)，開始自動調諧。



- 當自動調諧結束時，屏幕顯示會消失，並選擇節目位置 1。



此處顯示的號碼為仍在自動調諧中的頻道號碼。

可以接收的頻道

制式		VHF	UHF	有線電視
B G	CCIR 標準 (B.G.H)	E2-E12	E21-E69	S01-S05 M1-M10 U1-U10 S21-S41
I	中國香港特別行政區、英國 (I)	—	E21-E69	—
D K	東歐 (D.K.K1)	R1-R12	E21-E69	44-470 MHz
	中國 (D)	C1-C12	C13-C57	Z1-Z35
M	美國 (NTSC)	2-13	14-79	5A A-5-FFF
	日本 (NTSC)	1-12	13-62	C13-C63

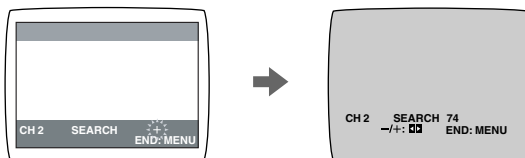
注意：

- 自動調諧會從 VHF 最低頻率至 UHF 最高頻率，來尋影電視台，並記憶每個調諧的節目位置。其它節目位置將被跳越。
- 自動調諧將需要 5 分鐘以上才能完成其尋影操作。

手動調諧步驟

如果通過自動調諧錄影機不能正確調諧，請依下述步驟進行。

- 1 按 [MENU] (菜單) 按鈕 (9)，使電視屏幕上出現主菜單。
- 2 按 [▼▲] 按鈕 (28)，選擇 [TUNER PRESET]，然後按 [ENTER] (開始) 按鈕 (26)。
- 3 按 [▼▲] 按鈕 (28)，選擇 [CH]，然後按 [◀▶] 按鈕 (28) 選擇您想要調諧的頻道號碼。
- 4 確認 [CLEAR] 被設定在 [OFF]。
- 5 按 [▼▲] 按鈕 (28)，選擇 [AUDIO SYSTEM]，然後按 [◀▶] 按鈕 (28)，選擇廣播制式。
BG : PAL B.G.H/SECAM B.G
I : PAL I
DK : PAL D/SECAM D.K.K1
M : NTSC
- 6 按 [▼▲] 按鈕 (28)，選擇 [COLOUR SYSTEM]，然後按 [◀▶] 按鈕 (28)，選擇 [AUTO]。
• 錄影機會自動辨別 PAL 和 SECAM 廣播。
• 選擇 [AUTO] 時，若畫面無色，則請選擇 [MESECAM] 或 [PAL] 或 [NTSC]。
- 7 按 [▼▲] 按鈕 (28)，選擇 [SEARCH]，然後按 [◀▶] 按鈕 (28)，開始手動調諧。



- 如果未調諧到需要的電視台，請再按 [◀▶] 按鈕 (28)。
- 對於您打算要調諧電視台的各節目位置，請按 [MENU] (菜單) 按鈕 (9)，並重複步驟 3-7。

8 按 [MENU] (菜單) 按鈕 (9) 三次，退出屏幕顯示。

直接調諧

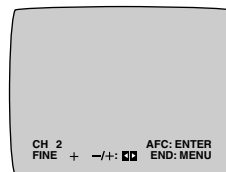
依手動調諧步驟的步驟 1 至 4 進行操作。

- 5 按 [▼▲] 按鈕 (28)，選擇 [SEARCH]。
- 6 按 [數字] 按鈕 (3)，輸入所需節目位置的號碼。
• 有關其它需要調諧的頻道，請重複步驟 3, 4, 5, 6。
- 7 按 [MENU] (菜單) 按鈕 (9) 兩次，退出屏幕顯示。

微調步驟

依手動調諧步驟的步驟 1 至 4 進行操作。

- 5 按 [▼▲] 按鈕 (28)，選擇 [FINE]，然後按 [◀▶] 按鈕 (28) 以獲得最佳的調諧狀態。
• 使調諧回到其以前的狀態時，請按 [ENTER] (開始) 按鈕 (26)。
- 6 按 [MENU] (菜單) 按鈕 (9)，退出屏幕顯示。



空出未使用的節目位置時

依手動調諧步驟的步驟 1 至 3 進行操作。

- 4 按 [▼▲] 按鈕 (28)，選擇 [CLEAR]，然後按 [◀▶] 按鈕 (28)，選擇 [ON]。
• 在節目位置選擇中，對於其它打算跳過的未使用的節目位置，請重複步驟 3, 4。
• 取消節目位置的空白狀態時，請選擇該節目位置，然後將 [CLEAR] 設定為 [OFF]。
- 5 按 [MENU] (菜單) 按鈕 (9) 兩次，退出屏幕顯示。

設定錄影機的時鐘

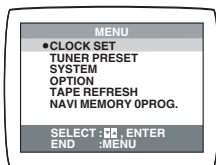
在電源故障的情況下，時鐘將可憑其保持系統進行 3 年的操作。3 年後，在電源故障的情況下，時鐘保持系統祇能保證最多 1 個小時的操作。

準備

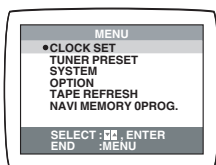
- 確認電視機已經開啓並選擇了錄影機的觀看頻道。
- 開啓錄影機。

操作

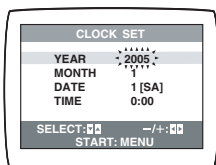
- 1 按 [MENU] (菜單) 按鈕 (9)，使電視屏幕上出現主菜單。



- 2 按 [▼▲] 按鈕 (28)，選擇 [CLOCK SET]，然後按 [ENTER] (開始) 按鈕 (26)。



- 3 按 [◀▶▼] 按鈕 (28)，設定各項目。按 [▲] 按鈕 (28)，可返回前一個項目。



設定時間 (TIME) 的要點：

- 當按住該按鈕時 [◀▶] (28)，指示將以 30 分鐘為間隔改變。

- 4 按 [MENU] (菜單) 按鈕 (9)。

- 時鐘開始計時。



時間重新設定功能

如果時鐘快慢少於 2 分鐘，可以簡單地將其重新設定在正確的時間。

例如：

將時鐘重新設定在 12:00 時

- 1 按 [MENU] (菜單) 按鈕 (9)，使電視屏幕上出現主菜單。
- 2 按 [▼▲] 按鈕 (28)，選擇 [CLOCK SET]，然後按 [ENTER] (開始) 按鈕 (26)。
- 3 如果錄影機上顯示的現在時間在 11:58 和 12:01 之間，當您一聽見 12:00 的報時時，請立即按 [MENU] (菜單) 按鈕 (9)。這樣便會使時間重新設定在 12:00。

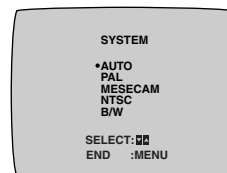
用屏幕顯示進行設定

準備

- 確認電視機已經開啓並選擇了錄影機的觀看頻道。
- 開啓錄影機。

設定彩色電視制式

- 1 按 [MENU] (菜單) 按鈕 (9)，使電視屏幕上出現主菜單。



- 2 按 [▼▲] 按鈕 (28)，選擇 [SYSTEM]，然後按 [ENTER] (開始) 按鈕 (26)。

- 3 按 [▼▲] 按鈕 (28)，選擇 [AUTO]。

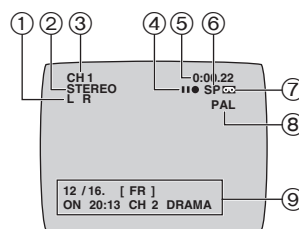
- 錄影機會自動在 PAL、SECAM/MESECAM 和 NTSC 信號之間進行識別。在 AV 外部轉錄或放影中，若畫面無色，則請設定為 [PAL]、[MESECAM] 或 [NTSC]。
- 當您想以黑白畫面進行轉錄或放影時，請設定為 [B/W]。

- 4 按 [MENU] (菜單) 按鈕 (9) 兩次，退出屏幕顯示。

使各種指示燈出現在屏幕顯示上

按 [STATUS/ NAVI CHECK] (狀態 / 導航器檢查) 按鈕 (32) 時，下列指示燈將出現在電視屏幕上。

- 將 [OSD] 設置在 [AUTO]。(請參見第 27 頁。)
- 5 秒鐘後顯示將會自動解除。



① 音頻輸出狀態指示燈

每次按 [AUDIO] (音頻) 按鈕 (22)，本機會用左 (L) 和右 (R) 指示燈，表示所選擇的聲音狀態。

立體聲：左 (L) 和右 (R) 兩個指示燈都出現。

左：左 (L) 指示燈出現。

右：右 (R) 指示燈出現。

普通：左 (L) 和右 (R) 兩個指示燈都不出現。

- 每次按該鈕，音頻輸出狀態會如下改變。

在播放中：

立體聲 → L → R → 普通音頻軌跡 → 立體聲

在接收廣播信號中：

立體聲 → L → R → 普通 → 立體聲

② STEREO、M1 和 M2 指示燈

當用立體聲、雙語或 NICAM 聲音制式接收電視節目時，本機會自動表示廣播中的聲音制式類型。

STEREO：當接收立體聲 / NICAM 立體聲廣播時。

M1/M2：當接收雙語 / NICAM 雙聲道廣播時。

M1：當接收 NICAM 單聲道廣播時。

- 欣賞立體聲演奏時，請參見第 22 頁中所示，連接至帶左右音頻輸入端子的電視機或立體聲放大器。

③ 節目位置

④ 磁帶運轉顯示

停止，取帶	
倒帶，倒帶尋影， 索引尋影 ◀◀◀， 飛速尋影 ◀◀， 飛速倒帶	◀◀
快進，快進尋影， 索引尋影 ▶▶▶， 飛速尋影 ▶▶	▶▶
放影	▶
錄影	●
錄影暫停	●
重複放影	R▶

⑤ 現在時間／磁帶計時器／剩餘磁帶時間／索引尋影／OTR 指示／飛速倒帶

信息	顯示
現在時間	17:24
磁帶計時器	0:02.54
剩餘磁帶時間	REMAIN 2:34
索引尋影	S 01
OTR 指示	OTR 60
飛速倒帶	J. REW

⑥ 磁帶狀態／錄影狀態指示燈 (SP/LP/EP)

⑦ 磁帶裝入指示燈

⑧ 彩色制式指示燈

除 [AUTO] 以外，任何所選擇的彩色電視制式都會出現在屏幕顯示上。參見第 24 頁和 25 頁。

⑨ NAVI CHECK 指示燈

在正常放影中，重複按 [STATUS/ NAVI CHECK] (狀態 / 導航器檢查) 按鈕 (32)，直到 NAVI CHECK 指示燈出現為止。您可以檢查正在播放節目的屬性。但該功能僅對在 [JET NAVIGATOR] 設定為 [ON] 時錄製的節目有效。(請參見右面。)

時鐘 → 計時器 → 剩餘磁帶時間 →

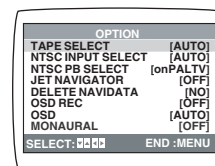
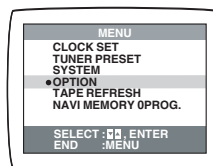
→ NAVI CHECK 指示燈 → 時鐘

- 當錄影機正在檢查節目數據時，顯示出 [CHECKING DATA] 的信息。
- 當節目數據不能被發現時，會出現 [DATA NOT FOUND] 的信息。

注意：

- 在特殊放影中，屏幕顯示可能會被擾亂或消失。

選項設定



- 1 按 [MENU] (菜單) 按鈕 (9)，使電視屏幕上出現主菜單。
- 2 按 [▼▲] 按鈕 (28)，選擇 [OPTION]，然後按 [ENTER] (開始) 按鈕 (26)。
- 3 按 [▼▲] 按鈕 (28)，選擇需要的區域。

TAPE SELECT：可選擇與顯示的大約剩餘磁帶時間相應的錄影帶長度。

- 按 [◀▶] 按鈕 (28)，選擇相應的錄影帶長度。
 - AUTO：錄影機將自動識別 E30、-60、-90、-120、-180 和 -240 磁帶。
 - E195：用於 E195 磁帶
 - E260：用於 E260 磁帶
 - E300：用於 E300 磁帶

- 根據所用的磁帶，可能無法正確地顯示剩餘磁帶時間。

NTSC INPUT SELECT：可選擇錄製 NTSC 信號時所用的彩色電視制式。

- 按 [◀▶] 按鈕 (28)，選擇 [AUTO]。可使 NTSC [4.43] 或 [3.58] 信號能夠得到自動識別。
- 若磁帶未能得到正確錄製，請選擇 4.43 或 3.58。
 - 4.43：當錄製 NTSC 4.43 信號時。
 - 3.58：當錄製 NTSC 3.58 信號時。
- 選擇 [3.58] 時，NTSC 3.58 制式的某些節目可能無法得到正確錄製。

NTSC PB SELECT：可選擇播放用 NTSC 信號錄製的磁帶時所用的電視機的彩色電視制式。

- 按 [◀▶] 按鈕 (28)，根據電視機的彩色電視制式，選擇需要的位置。
 - on PAL TV：用於能夠接收 PAL 信號的電視機。
 - 4.43：用於能夠接收 NTSC 4.43 信號的電視機。
 - 3.58：用於能夠接收 NTSC 3.58 信號的電視機。

JET NAVIGATOR：可設定飛速導航器所需的條件。

- 按 [◀▶] 按鈕 (28)，選擇 [ON] 或 [OFF]。
 - OFF：初始設定在此位置。
 - ON：飛速導航器將工作。如果您選擇了 [ON]，[OSD REC] 將被自動設定在 [OFF]。

DELETE NAVIDATA：可刪除錄影機記憶中儲存的所有飛速導航器的數據。

- 按 [◀▶] 按鈕 (28)，選擇 [ENTER]，然後按 [ENTER] (開始) 按鈕 (26)，進行刪除。
 - NO：初始設定在此位置。
 - ENTER：這樣做，將會刪除所有飛速導航器的數據。

OSD REC : 可設定 OSD 錄影功能所需的條件。

• 按 [◀▶] 按鈕 (28)，選擇 [ON] 或 [OFF]。

OFF : 初始設定在此位置。

ON : 該設定可進行 OSD 錄影。
(請參見第 29 頁。) 如果您選擇了 [ON]，
[JET NAVIGATOR] 將被自動設定在
[OFF]。

OSD : 可選擇屏幕顯示狀態。

• 按 [◀▶] 按鈕 (28)，選擇 [AUTO] 或 [OFF]。

AUTO : 按 [STATUS/ NAVI CHECK] (狀態 / 導航器
檢查) 按鈕 (32)，可使各種指示燈在屏幕顯
示出現 5 秒鐘。

OFF : 無指示出現。

MONAURAL : 可選擇聲音狀態。

• 按 [◀▶] 按鈕 (28)，選擇 [ON] 或 [OFF]。

ON : 可在 NICAM 廣播中或因接收狀況不良造成
立體聲聲音失真中，錄製普通的聲音。

OFF : 普通設定在此位置。

4 按 [MENU] (菜單) 按鈕 (9) 兩次，退出屏幕顯示。

放影

準備

- 確認錄影機已經開啓。
- 確認電視機已經開啓並選擇了錄影機的觀看頻道。
- 插入一盒已錄的錄影帶。

對於普通放影：

按 [放影] 按鈕 (8)。



對於快進尋影或倒帶尋影放影：

在放影中，輕按 [快進] 按鈕 (27) 或 [倒帶] 按鈕
(10)。

- 恢復正常放影時，請按 [放影] 按鈕 (8)。
- 如果您按住 [快進] 按鈕 (27) 或 [倒帶] 按鈕 (10)，
在按鈕期間，將一直持續進行快進或倒帶尋影放
影。鬆開按鈕時，操作將恢復正常放影。

對於高速快進尋影或倒帶尋影放影 (JET SEARCH)：

在放影中，輕按 [快進] 按鈕 (27) 或 [倒帶] 按鈕 (10) 兩次。

對於靜止放影：

在放影中，按 [PAUSE/SLOW] (暫停 / 慢動作) 按
鈕 (29)。

- 恢復正常放影時，請按 [放影] 按鈕 (8) 或按
[PAUSE/SLOW] (暫停 / 慢動作) 按鈕 (29)。



對於慢動作放影：

在放影中，持續按住 [PAUSE/SLOW] (暫停 / 慢
動作) 按鈕 (29) 2 秒鐘以上。

- 恢復正常放影時，請按 [放影] 按鈕 (8)。



快進或倒轉磁帶時：

在停止狀態下，按 [快進] 按鈕 (27) 或 [倒帶] 按鈕 (10)。

- 停止快進或倒帶時，按 [停止] 按鈕 (12)。

獲得更高速的倒帶 (快速倒帶)：

按 [JET REW] (飛速倒帶) 按鈕 (11)。

[J . REW] 指示顯示在電視螢幕上。

- 根據磁帶或操作狀況，倒帶速度可能會有所改變。
- 當磁帶被倒轉至開頭時，磁帶計時器將復原至 [0:00]。

停止播放時：

按 [停止] 按鈕 (12)。

注意：

- JET SEARCH、快進尋影、倒帶尋影或慢動作放影將在 10 分
鐘後自動解除，而靜止放影將在 5 分鐘後解除。
- 在正常放影以外的任何放影功能下，畫面可能會出現水平的
雜訊條紋、色彩不穩或其它失真現象。
- 當播放 LP 狀態下錄製的磁帶時，畫面可能會是黑白的。
- 當播放 EP 狀態下錄製的磁帶時，畫面和聲音可能會不穩。
然而，這些並非功能失常。

播放 S-VHS 錄影帶 (SQPB=S-VHS Quasi Playback)

本機也可以播放用 S-VHS 制式所錄製的磁帶。

- 根據所用磁帶類型，有些畫面可能會出現雜訊。
- 不可能完全獲得 S-VHS 磁帶所具備的高解像度。
- 在該錄影機上，不可能用 S-VHS 制式進行錄影。

重複播放已錄影部分

按 [REPEAT] (重複) 按鈕 (30)。

- 按 [STATUS/NAVI CHECK] (狀態 / 導航器檢查) 按鈕 (32)，[R▶] 指示顯示在螢幕上。(請參閱第 25 與 26 頁)
- 錄影帶上的轉錄部分至少要有 15 分鐘長。
- 當在以前錄製的錄影帶上重新進行轉錄時，可能無法正常工作。

取消重複播放狀態時：

按 [停止] 按鈕 (12)。

NTSC 播放

可以用本錄影機，在 PAL 制式的電視機上，播放以 NTSC 制式錄製的磁帶。

- 根據電視機的彩色電視制式，從螢幕顯示上選擇 [NTSC PB SELECT]。(請參見第 26 頁。)
- 進行 NTSC 3.58 錄影，需要讓 [NTSC INPUT SELECT] 處於 AUTO 或 3.58 位置 (請參見第 26 頁)，然而，當進行 NTSC 3.58 信號的錄影時，若 [NTSC INPUT SELECT] 處於該位置，對於 PAL 電視機將無色。一旦錄影結束，您需要選擇 [on PAL TV]，以便在 PAL 電視機上觀看彩色的錄影。
- 在某些電視機上，播放畫面可能會上下滾動。如果您的電視機具有 V-HOLD 控制或相當的調節功能，請用該功能調節畫面。

僅限於在 PAL 制式的電視機上進行 NTSC 播放時的注意事項
該功能設計祇允許在 PAL 制式的電視機上播放用 NTSC 信號錄製的磁帶。NTSC 信號不能完全轉換成 PAL 信號。因此，用該功能播放的圖像不能正確地轉錄在其它錄影機上。

便利的自動功能

錄影機自動開啓

當您插入錄影帶時，錄影機將自動開啓。

自動放影開始

當您插入一盤保險片被去掉的錄影帶時，不必按 [放影] 按鈕 (8)，本機會自動開始放影。

錄影機關閉放影

當錄影機關閉時，按 [放影] 按鈕 (8)，便可播放已插入的磁帶。

自動倒帶

當磁帶到達結尾時，錄影機會自動將磁帶倒轉至開頭。
• 在定時錄影、OTR 錄影和快進中，該功能將不會工作。

自動關機取帶

當錄影機關閉時，只要按 [STOP/EJECT] (停止 / 取帶) 按鈕 (40)，便可取出已插入的錄影帶。錄影機將退出錄影帶，並自動再次關機。

用遙控器退出錄影帶時

持續按住 [停止] 按鈕 (12) 至少 3 秒鐘以上。

錄影

準備

- 確認錄影機已經開啓。
- 確認電視機已經開啓並選擇了錄影機的觀看頻道。

操作

1 插入一盒保險片齊全的錄影帶。

- 如果已經插入，請按 [VCR-ON/OFF] (錄影機開 / 關) 按鈕 (1)，開啓錄影機。

2 用 [CH] (頻道) 按鈕 (20)，選擇電視台。

- 按 [數字] 按鈕 (3)，也可進行選擇。

3 按 [REC] (錄影) 按鈕 (15) ([REC/OTR] (錄影 / 單觸錄影) 按鈕 (39)) 開始錄影。

4 按 [停止] 按鈕 (12)，停止錄影。



選擇需要的錄影狀態

在錄影之前，按 [REC MODE] (錄影狀態) 按鈕 (33)。

- SP 可提供標準轉錄時間、最佳畫質和音質。
LP 在稍微減低畫質和音質的情況下，可提供雙倍的轉錄時間。
而 EP 在犧牲一些畫質和音質的基礎上，可提供三倍的轉錄時間。
當您播放以 EP 狀態錄製的磁帶時，單聲可能會不穩定。

當您開始在 EP 狀態下錄影時，錄影機顯示屏上的 [EP] 指示會閃爍約 8 秒鐘。

EP 狀態是指超長時間放影 (SLP)。

暫停錄影

在錄影中，按 [PAUSE/SLOW] (暫停 / 慢動作) 按鈕 (29)。再按該鈕，可繼續進行錄影。



在觀看某節目時錄製另外的電視節目

按 [REC] (錄影) 按鈕 (15)，開始錄影之後，在電視機上選擇您想要觀看的電視節目位置。

防止錄影內容的意外抹消

錄影後，請撬掉保險片。

如果您插入保險片已被撬掉的錄影帶，且按了 [REC] (錄影) 按鈕 (15) ([REC/OTR] (錄影 / 單觸錄影) 按鈕 (39))，指示將在錄影機顯示屏上閃爍，表示無法進行錄影。
如果要重新用此錄影帶錄影，請用雙層膠帶紙蓋住保險片孔。

顯示大致的剩餘磁帶時間

可以在錄影機顯示屏上顯示出剩餘的磁帶時間。

- 1 從屏幕顯示上選擇 [TAPE SELECT]，並選擇相應的錄影帶長度。請參見第 26 頁。
- 2 重複按 [STATUS/ NAVI CHECK] (狀態 / 導航器檢查) 按鈕 (32)，直至錄影機顯示屏上出現剩餘磁帶時間為止。



對於某些磁帶，顯示的剩餘磁帶時間可能會不準。

使磁帶計時器復原

按 [RESET] (復原) 按鈕 (31)，使磁帶計時器 (已經過時間) 復原至 [0:00]。

- 當插入錄影帶時，磁帶計時器將自動復原至 [0:00]。
- 當您操作飛速倒帶功能時，磁帶計時器將復原至 [0:00]，且磁帶將被倒轉至開頭。

注意：

- 當播放 LP 或 EP 狀態下錄製的磁帶時，某些畫面和聲音可能會失真。然而，這些並非功能失常。
- 錄影機暫停狀態將在 5 分鐘後自動解除，並恢復停止狀態。
- 在該錄影機上以 EP 狀態錄製的磁帶，不能在其它沒有 EP 狀態功能的錄影機上播放。
- 當您在其它錄影機 (即使具有 EP 狀態功能)，上播放以 EP 狀態錄製的磁帶時，畫面和聲音都可能會失真。然而，這些並非功能失常。

立體聲和雙語節目的錄影

- 1 將自動以立體聲或雙語狀態進行錄影。這樣，可避免拷貝的或原來的語言選擇有誤。
- 2 在放影中，按 [AUDIO] (音頻) 按鈕 (22)，可選擇需要的聲音狀態。(請參見第 25 頁。)

NICAM 廣播制式

該錄影機具備 NICAM 聲音制式。NICAM 為 2 聲道音頻廣播系統，可提供高質立體聲音軌或 2 個獨立的 MONO 音軌，M1 和 M2。

NICAM 節目總是伴隨著標準音響廣播，您可在放影中，用 [AUDIO] (音頻) 按鈕 (22)，選擇需要的聲音。

- NICAM 數碼立體聲音響只能錄製在高保真音軌上。
- 在接收 NICAM 節目時，指示燈將亮起，向您表明廣播類型。(請參見第 25 頁。)
- 在 NICAM 節目接收中，若想在 FM 音軌上錄製一般的聲音 (普通聲音) 時，請將 [MONAURAL] 設定為 [ON]。(請參見第 27 頁。)
- 欣賞立體聲演奏時，請參見第 22 頁中所示，連接至帶左右音頻輸入端子的電視機或立體聲放大器。

NICAM 制式的重要注意

當錄影機開啓時，若正在播送的是 NICAM，則調諧器將自動切換至 NICAM 廣播。

此時，因為 M1 和 M2 格式還無法適用，所以 NICAM 信號僅在立體聲頻道播放。即使音軌為 MONO，立體聲指示燈也將亮起。

在錄製畫面時將現在的日期和時間錄製在相同的屏幕上 (OSD 錄影)

該功能可讓您在畫面錄製時，將現在的日期和時間錄製在相同的屏幕上。

操作

- 1 將 [OSD REC] 設定為 [ON]。(請參見第 27 頁。)
- 2 按 [REC] (錄影) 按鈕 (15) ([REC/OTR] (錄影 / 單觸錄影) 按鈕 (39))。
- 3 按 [停止] 按鈕 (12)，停止錄影。



注意：

- 該功能也可被啓用於 OTR 錄影和定時錄影。

選擇錄影時段和進行定時錄影 (OTR 錄影)

OTR 意思指單觸錄影，之所以如此稱呼，是因為您可重複按單個的按鈕，便可開始錄影和選擇錄影時段。該功能非常方便，例如，當您需要立即開始錄影，但又想外出或上床時。當選擇的錄影時段結束時，錄影會停止，而且錄影機將自動關閉。

進行 OTR 錄影：

- 1 使電視機上顯示錄影機畫面。
- 2 插入一盒保險片齊全的錄影帶。
- 3 按 [CH] (頻道) 按鈕 (20)，選擇您打算錄製的電視節目將要廣播的節目位置。
- 4 按 [REC/OTR] (錄影 / 單觸錄影) 按鈕 (39)，開始錄影。
- 5 重複按 [REC/OTR] (錄影 / 單觸錄影) 按鈕 (39)，選擇需要的錄影時段。
 - 每次按該鈕，錄影機顯示屏上表示的錄影時段將依下列順序改變。
 - 例如，如果您選擇了 [30]，錄影機將從該時刻起錄製 30 分鐘的節目。

計時器顯示 (正常錄影狀態) → 30 (分鐘) → 60 (分鐘) → 90 (分鐘) → 120 (分鐘) → 180 (分鐘) → 240 (分鐘) → 計時器顯示 (正常錄影狀態)

在結束前停止 OTR 錄影：

按 [停止] 按鈕 (12)。

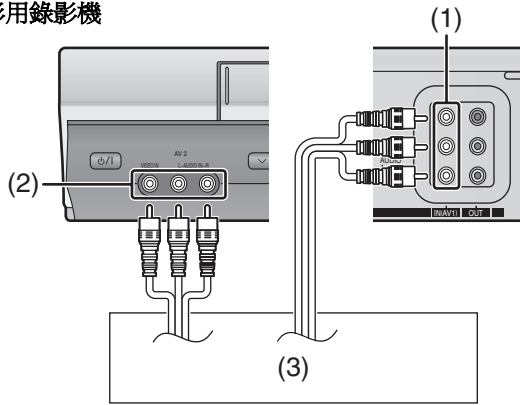
注意：

- 在正常錄影中，OTR 功能可使用。
- 在 OTR 錄影中，當磁帶到達其結尾時，錄影機將自動關閉。

外部信號源轉錄

該功能可用於從其它錄影或錄像信號源來製作一編輯磁帶。新場景可以被添加到以前錄製部分的結尾。

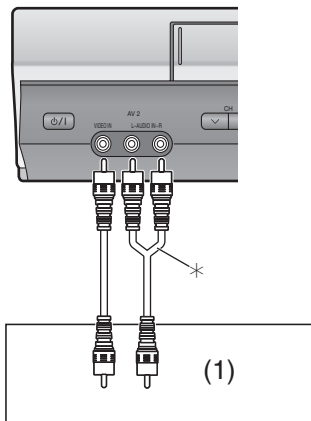
錄影用錄影機



- (1) AV 1
(影像輸入 (42) / 音頻輸入 (45))
- (2) AV 2
(影像輸入 (35) / 音頻輸入 (36))
- (3) 其它錄影機或攝錄影機

準備

- 如圖所示，將攝錄影機或另外的錄影機連接至本錄影機上。
- 使電視機上顯示錄影機畫面。
- 插入一盒將要用於複製的錄影帶，並確保其保險片完好無損。
- 按 [INPUT SEL] (輸入選擇) 按鈕 (6)，設定在 A1 或 A2 的位置上，以選擇需要的音頻 / 影像信號源。
 - A1：通過 AV1 (音頻輸入 / 影像輸入) 插孔。
 - A2：通過前面板上的 AV2 (音頻輸入 / 影像輸入) 插孔。
- 使用 L 的 R 連接端，可用於普通 (單聲) 狀態的操作。



- (1) 其它錄影機或攝錄影機
* 音頻纜線 (非附件)

操作

- 按 [放映] 按鈕 (8)，開始放影。
- 在您打算接入新場景的位置，按 [PAUSE/SLOW] (暫停 / 慢動作) 按鈕 (29)，使本機處於靜止放影狀態。
- 按 [REC] (錄影) 按鈕 (15)，使本機處於錄影暫停狀態。
- 開始信號源機件的放影，尋找您想要錄製 (複製) 在本錄影機上的起點。
- 當達到該點時，再按 [PAUSE/SLOW] (暫停 / 慢動作) 按鈕 (29)，開始錄製來自放影機件的新畫面和聲音。
- 想要錄製 (複製) 另外的場景時，請按 [PAUSE/SLOW] (暫停 / 慢動作) 按鈕 (29)，使本錄影機處於錄影暫停狀態，然後再次進行上述步驟 4 和 5 的操作。
- 在您打算停止錄影之點，按 [停止] 按鈕 (12)，結束錄影。

注意：

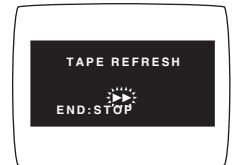
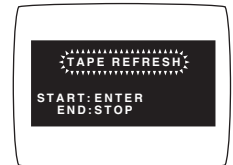
- 如果您讓錄影機在步驟 3 或 6 中，處於錄影暫停狀態超過 5 分鐘時，錄影機將自動切換到停止狀態，以保護影像磁頭。

刪除磁帶中的所有內容 (磁帶刷新功能)

您可以一次性地刪除錄影帶上所有的內容 (圖像、聲音和飛速導航器數據)。

操作

- 如果想刪除 [JET NAVIGATOR] 設為 [ON] 時錄製的所有內容，一定要將 [JET NAVIGATOR] 設為 [ON]。如果想刪除 [JET NAVIGATOR] 設為 [OFF] 時錄製的或在其它錄影機上錄製的所有內容，一定要將 [JET NAVIGATOR] 設為 [OFF]。(請參見第 26 頁。)
- 插入想要刪除其內容的磁帶。
- 按 [MENU] 按鈕 (9)，使屏幕上出現主菜單。
- 按 [▼▲] 按鈕 (28)，選擇 [TAPE REFRESH]，然後按 [ENTER] (開始) 按鈕 (26)。
 - 當磁帶重新整理功能正在運行時，剩餘的磁帶時間會顯示在錄影機顯示屏上。
- 按住 [ENTER] (開始) 按鈕 (26) 2 秒鐘以上，開始磁帶刷新功能的操作。



磁帶倒帶至起點，然後用磁帶刷新功能使其快進。當磁帶到達結尾時，錄影機會自動將磁帶倒轉至開頭。

注意：

- 如果插入的錄影帶上的保險片被去掉，此功能將不能使用。

定時錄影

簡易定時節目編排

最多可提前一個月設定好定時器，以錄製最多達 16 個的定時節目，包括每週和每天的節目。

準備

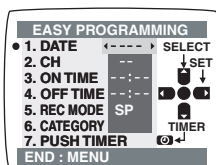
- 錄影機必須開著，或處於定時錄影待命狀態。
- 確認電視機已經開啓並選擇了錄影機的觀看頻道。
- 插入一盒保險片齊全的錄影帶。
- 檢查時鐘已設定為正確的時間。若尚未設定時鐘，請參見第 25 頁。
- 當 [JET NAVIGATOR] 被設定在 [ON] 時 (請參見第 26 頁)，您可以設定類別。
還有一種方法，就是在導航器清單上設定類別。(有關詳情，請參見第 33 頁。)

操作

當 [JET NAVIGATOR] 被設定在 [ON] 時；

1 按 [PROG] (編排) 按鈕 (7)，使電視屏幕上出現定時節目所用的菜單。

2 按 [◀▶] 按鈕 (28)，設定電視節目將要廣播的日期，並按 [▼] 按鈕 (28)。



3 按 [◀▶] 按鈕 (28)，選擇需要電視台的節目位置，並按 [▼] 按鈕 (28)。

4 按 [◀▶] 按鈕 (28)，設定開始時間，並按 [▼] 按鈕 (28)。
• 當按住該按鈕時 ([◀▶] (28))，指示會以 30 分鐘為間隔改變。

5 按 [◀▶] 按鈕 (28)，設定結束時間，並按 [▼] 按鈕 (28)。

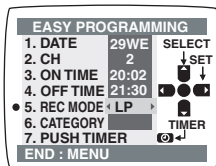
6 按 [◀▶] 按鈕 (28)，設定需要的錄影狀態，並按 [▼] 按鈕 (28)。

- SP 可提供標準轉錄時間、最佳畫質和音質。

LP 在稍微減低畫質和音質的情況下，可提供雙倍的轉錄時間。

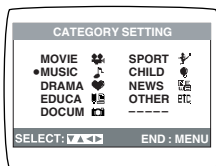
而 EP 在犧牲一些畫質和音質的基礎上，可提供三倍的轉錄時間。
有關 [A] 指示，請參見第 32 頁。

當您播放以 EP 狀態錄製的磁帶時，單聲可能會不穩定。

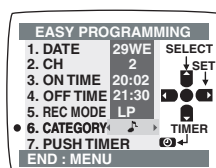


7 按 [◀▶] 按鈕 (28)，選擇類別。然後，按 [▼▲◀▶] 按鈕 (28)，選擇需要的類別。

- 當 [JET NAVIGATOR] 被設定在 [OFF] 時 (請參見第 26 頁。)，請進入步驟 9。



8 按 [MENU] (菜單) 按鈕 (9)，使前面的顯示出現。



9 按 [TIMER (REC)] (定時器 (錄影)) 按鈕 (14)，以便將錄影機切換至定時錄影待命狀態。

- 當 [JET NAVIGATOR] 被設定在 [ON] 時 (請參見第 26 頁)，會出現 [PROGRAMME IS COMPLETE. REMAINING PROGRAMME 49.] 的信息。
- 當 [JET NAVIGATOR] 被設定在 [OFF] 時 (請參見第 26 頁)，會出現 [PROGRAMME IS COMPLETE.] 的信息。

按 [TIMER (REC)] (定時器 (錄影)) 按鈕 (14) 後，若定時錄影立即開始，則將不會出現這些信息。

暫停定時錄影待命狀態

當您在編排的定時錄影開始之前，想要用錄影機進行放影、正常錄製或某些其他操作時，您可以透過按 [TIMER (REC)] (定時器 (錄影)) 按鈕 (14) 臨時暫停計時器錄製待機模式，以便錄影機顯示屏上的 [⊙] 指示消失且主機上的 [TIMER (REC)] (定時器 (錄影)) 按鈕 (14) 亮起。

然而，在您結束使用錄影機之後，必須再按 [TIMER (REC)] (定時器 (錄影)) 按鈕 (14)，重新啓動定時錄影待命狀態，否則，將不會進行已編排的定時錄影。

每週和每天的定時錄影

在簡易定時節目編排的步驟 2，按 [◀] 按鈕 (28)，選擇需要的日期。

當前的日期 ↔ 每週 ↔ 每天 ↔

↔ 一個月後的前一天 ↔ 當前的日期 ...

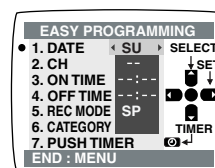
每週：

SU= 星期天、MO= 星期一、TU= 星期二、WE= 星期三、TH= 星期四、FR= 星期五、SA= 星期六

每天：

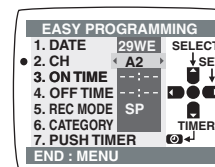
每天錄影	屏幕顯示
星期一到星期五	MO-FR
星期一到星期六	MO-SA
星期天到星期六	SU-SA

例如：SU (星期天)



來自外部信號源的定時錄影

如果用連接至音頻/影像輸入插孔的機件來進行定時錄影，請在該節目位置的簡易定時節目編排的步驟 3，選擇 A1 或 A2 指示燈。



連續設定其它節目

重複簡易定時節目編排的步驟 1-9。

編排電視節目 (錄完為止) 的定時錄影時 (錄影狀態自動切換功能)

在 SP 狀態下進行定時錄影期間，若是錄影機探測到剩餘磁帶時間不足以從頭到尾錄完節目，該功能將自動改變錄影狀態，以確保能夠錄完整個節目。

錄影狀態將有如下改變：

PAL 制式時： SP → LP

NTSC 制式時： SP → EP

• 對於 PAL 制式，該功能將無法使錄影狀態變為 EP 狀態。

根據剩餘磁帶長度，可能從頭開始都會以 LP (EP) 狀態進行錄影。但是，此種情況下，若是剩餘磁帶時間仍然不足，則該節目也不可能被錄完。

須正確地設定磁帶長度。(請參見第 26 頁。)

某些磁帶可能無法正常操作。

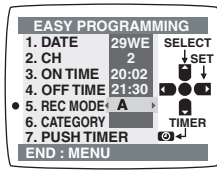
定時錄影中，若錄影狀態由 SP 變為 LP，在此點，畫面將會出現短暫性失真。

啓動錄影狀態自動改變功能時：

按 [REC MODE] (錄影狀態) 按鈕 (33)，選擇 [A]。

• 每次按 [REC MODE] (錄影狀態) 按鈕 (33) 時，指示將依下列順序改變。

SP → LP → EP → A → SP



下星期對同一個節目進行定時錄影時 (智能定時)

當您想為那些在一週內將要錄製的節目 (並且是您以前曾經錄製過的那些節目) 設置定時錄影時，您可以使用 I-TIMER 功能立刻錄製節目，而不必用按鈕輸入日期和時間。從以前錄製的定時節目清單中選擇需要的設定。請仔細檢查日期和時間。

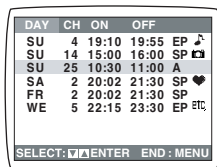
準備

- 錄影機必須開著，或處於定時錄影待命狀態。
- 確認電視機已經開啓並選擇了錄影機的觀看頻道。
- 插入一盒保險片齊全的錄影帶。

1 按 [I-TIMER] (智能定時器) 按鈕 (23)，使電視機屏幕上出現供智能定時用的菜單。

• 會出現以前錄製過的定時節目清單。

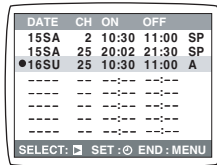
2 按 [▼▲] 按鈕 (28)，選擇您想在下星期錄製的定時節目。



3 按 [ENTER] (開始) 按鈕 (26)。

• 出現定時節目清單屏幕。

4 按 [TIMER (REC)] (定時器 (錄影)) 按鈕 (14)，以便將錄影機切換至定時錄影待命狀態。



刪除 I-Timer 節目

1 按下 [I-TIMER] (智能定時器) 按鈕 (23)，然後再按 [▲▼] 按鈕 (28) 選擇要刪除的計時器程式。

2 按下 [CANCEL] (取消) 按鈕 (5)。

• 計時器程式被刪除，無法恢復。

注意：

- 最多可以存儲 16 個 I-Timer 節目。
- 當 I-Timer 節目增加超過 16 個時，最舊的那個節目將被刪除。

檢查和取消定時節目

準備

- 錄影機必須開著，或處於定時錄影待命狀態。
- 確認電視機已經開啓並選擇了錄影機的觀看頻道。

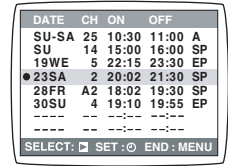
1 按 [CHECK] (檢查) 按鈕 (24)。

• 出現定時節目清單屏幕。

2 重複按 [CHECK] (檢查) 按鈕 (24) 選擇節目。

• 每次您按 [CHECK] (檢查) 按鈕 (24) 光標將下移。

• 按 [▶] 按鈕 (28)，顯示類別。(當 [JET NAVIGATOR] 被設定在 [ON] 時。) 再按 [▶] 按鈕 (28)，使前面的顯示出現。



3 按 [CANCEL] (取消) 按鈕 (5) 取消。

4 按 [MENU] (菜單) 按鈕 (9)，退出屏幕顯示。

注意：

• 如果定時錄影未能完全錄完 (由於磁帶不足或被用戶取消)，編排的定時錄影數據將在兩天後的上午 4 點鐘，從記憶中清除。

然而，如果定時錄影功能在該時間啓動，則編排的定時錄影數據將不會被清除。

尋影功能

飛速導航器

該錄影機可以在電視機的屏幕上顯示已插入錄影帶上所錄節目的清單。然後，您便可以選擇需要的節目，而且錄影機將快速定位於該節目的開頭，並開始放影。

正確操作飛速導航器功能的條件：

- 必須正確地設定插入錄影帶的磁帶長度。(請參見第 26 頁。)
- 務必解除錄影機的定時錄影待命狀態。
- 磁帶上必須錄有 15 分鐘以上的節目。

準備

- 使電視機上顯示錄影機畫面。
- 必須將 [JET NAVIGATOR] 設定為 [ON] (請參見第 26 頁)，並進行錄影。

操作

1 按 [NAVI] (導航器) 按鈕 (25)，顯示出飛速導航器清單。

- 飛速導航器清單上最多可顯示最後所錄製的 14 個節目數據。(每頁 7 個節目數據)
- 當一盒磁帶上錄製了 14 個以上的節目時，開頭的一個節目數據將被刪除。
- 在放影中按 [NAVI] (導航器) 按鈕 (25) 時，放影將停止，並會出現飛速導航器清單。

NO.01	JET NAVIGATOR	DATE	CH	ON	CATEGORY
10/18	1	10:30	MUSIC	▲	
10/19	24	15:00	SPORT	▼	
10/21	5	22:15			
10/23	A2	20:02			
10/26	4	19:10	EDUCA	■	
10/27	2	20:02			
10/27	12	20:30			

SELECT: NAVI, [] END: MENU

2 按 [NAVI] (導航器) 按鈕 (25) 幾次，選擇您想要定位和播放的節目。超過 3 秒鐘之後，錄影機將開始尋影所選定節目的開頭，然後自動開始放影。

- 每次按 [NAVI] (導航器) 按鈕 (25)，光標將上移。

NO.01	JET NAVIGATOR	DATE	CH	ON	CATEGORY
10/18	1	10:30	MUSIC	▲	
10/19	24	15:00	SPORT	▼	
10/21	5	22:15			
10/23	A2	20:02			
10/26	4	19:10	EDUCA	■	
10/27	2	20:02			
10/27	12	20:30			

SELECT: NAVI, [] END: MENU

→

NO.01	JET NAVIGATOR	DATE	CH	ON	CATEGORY
10/18	1	10:30	MUSIC	▲	
10/19	24	15:00	SPORT	▼	
10/21	5	22:15			
10/23	A2	20:02			
10/26	4	19:10	EDUCA	■	
10/27	2	20:02			
10/27	12	20:30			

SELECT: NAVI, [] END: MENU

取消飛速導航器清單時：

按 [MENU] (菜單) 按鈕 (9)。

設定類別

類別設定值可讓您借助於字符和圖標指示，發現所錄節目的種類。

CATEGORY SETTING	
MOVIE	SPORT
MUSIC	CHILD
DRAMA	NEWS
EDUCA	OTHER
DOCUM	-----

SELECT: [] END: MENU

1 在飛速導航器清單出現中，按 [▶] 按鈕 (28)。然後，按 [▼▲◀▶] 按鈕 (28)，選擇需要的類別。

類別	指示	圖標
電影	MOVIE	
音樂	MUSIC	
戲曲	DRAMA	
教育	EDUCA	
記錄片	DOCUM	
體育	SPORT	
兒童	CHILD	
新聞	NEWS	
其它	OTHER	ETC

2 按 [MENU] (菜單) 按鈕 (9)。

刪除單盒錄影帶上的飛速導航器數據時

在飛速導航器清單顯示時，按住 [CANCEL] (取消) 按鈕 (5)，5 秒鐘以上。

[一一] 就會在清單上出現。

關於刪除錄影機記憶中所儲存的所有飛速導航器數據的方法，請參見第 26 頁。

注意：

- 飛速導航器清單儲存在各個錄影帶上。最多可登記 20 盒磁帶和 50 個節目。
- 將檢查目前磁帶位置前後約 10 秒鐘的信號。(檢查期間，電視屏幕上會出現 [CHECKING JET NAVIGATOR DATA.]。)
- 在錄影帶上沒有信號的部分，如未錄製的部分，檢查不能正常進行。在此情況下，請在已經用該錄影機錄製了節目的磁帶部分，按 [NAVI] (導航器) 按鈕 (25)。這樣，將能夠更可靠地進行信號檢查。當仍未發現信號時，電視機上會顯示 [CAN NOT FIND JET NAVIGATOR DATA.]，且無法找到節目開頭。
- 當您嘗試儲存 50 個以上的節目時，出現 [PROGRAMME IS COMPLETE. REMAINING PROGRAMME 0. DELETE JET NAVIGATOR DATA.]。新的項目被添加，舊的項目被刪除。
- 進行飛速導航器數據檢查後，如果記憶中已經儲存了等於 20 盒錄影帶的節目，會出現 [REMAINING CASSETTE 0. FOR JET NAVIGATOR.]。不依指令進行數據刪除而錄製的節目，將不會登記在清單中。
- 當播放的錄影帶是在其它設備上錄製的，則不出現清單。
- 當在以前錄製的錄影帶上重新進行錄製時，可能無法正常工作。

確認該磁帶包含有您想觀看的節目 (飛速導航器記憶體)

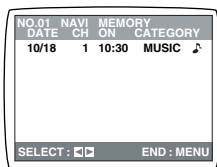
這將允許您搜索您所錄製的想觀看節目的錄影帶，而不必插入錄影帶。

準備

- 使電視機上顯示錄影機畫面。
- 您只能在過去已經在本錄影機上把[JET NAVIGATOR]設定為[ON](參見第26頁)的情況下，搜索在定時錄影中所錄製的錄影帶。

- 1 按[MENU] (菜單) 按鈕 (9)，使電視屏幕上出現主菜單。
- 2 按[▼▲] 按鈕 (28)，選擇[NAVI MEMORY 1*PROG.]，然後按[ENTER] (開始) 按鈕 (26)。

- 出現NAVI MEMORY 屏幕。
- 供一個錄影帶使用的節目清單是按每一個屏幕顯示出來的。
- 在本錄影機上最多可以選擇20個錄影帶，並且在NAVI MEMORY 屏幕上顯示出來。
- * 儲存在本錄影機上的飛速導航器數據的數量被顯示出來。



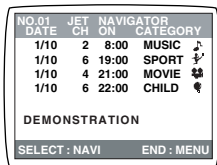
- 3 按[◀▶] 按鈕 (28)。
 - 顯示屏可以切換到每一個錄影帶 (節目清單) 上。

取消 NAVI MEMORY 屏幕：

按[MENU] (菜單) 按鈕 (9)。

示範飛速導航器功能

在未插入錄影帶的情況下，按住[NAVI] (導航器) 按鈕 (25) 5 秒鐘以上。

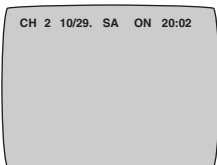


取消飛速導航器功能的演示：

按[MENU] (菜單) 按鈕 (9)。

檢查已錄節目數據 (時間標記功能)

用飛速導航器功能或索引尋影功能進行了尋影之後開始放影時，已錄節目的數據 (稱作時間標記) 將在電視屏幕上出現約 5 秒鐘。



注意：

- 若在目前磁帶位置的前後 10 分鐘之內未錄製飛速導航器數據的開頭，即使已記錄了索引信號，也不會出現時間標記。

尋找每個錄影節目的開頭 (VHS 索引尋影系統)

每次錄影開始時，該錄影機將會自動在錄影帶上錄製特殊的索引信號。索引尋影功能就是利用這些索引信號，使您能夠快速和簡單地找到所需要節目的開頭。

在下列情況下將自動錄製索引信號：

- 當您按[REC] (錄影) 按鈕 (15) 或[REC/OTR] (錄影/單觸錄影) 按鈕 (39)，開始錄影時。
- 當定時錄影開始時。
- 當您在錄影中，按遙控器上的[REC] (錄影) 按鈕 (15) 時。

索引尋影功能能夠正確操作的條件：

- 錄影機須處於停止狀態或放影狀態。
- 錄影帶上錄製的每個節目至少要有 5 分鐘長。

準備

- 使電視機上顯示錄影機畫面。
- 插入一盒已錄的錄影帶。

操作

- 1 按[INDEX] (索引) 按鈕 (13) (與需要節目在磁帶上所處的、目前的磁帶位置相應的方向) 開始索引尋影。例如，如果您打算正向尋影第 2 個錄製的節目，請按[INDEX] (索引) 按鈕 (13) (▶▶) 兩次。



- 錄影機將快進或倒轉磁帶，尋影特殊的索引信號 (需要的已錄節目的開頭)。
當發現了該信號時，將自動開始放影。

取消索引尋影或者停止放影：

按[停止] 按鈕 (12)。

注意：

- 最多可以雙向尋影 20 個索引信號。
- 如果您按[INDEX] (索引) 按鈕 (13) 之一，次數過多，簡單地按另一個[INDEX] (索引) 按鈕 (13) (指示相反的方向)，便可以進行校正。用這種方法，您可使顯示的數字減少至 1。
- 每位於 1 個索引信號，錄影機顯示屏上的數字便減少 1。

尋影要觀賞的定時錄影節目 (簡易節目放影)

可讓您單觸操作，便可尋找定時錄影節目，並簡單地進行播放。

準備

設定您想要觀賞的節目所用定時錄影。

操作

- 1 按[PROG PLAY] (編播放影) 按鈕 (21)。
 - 只要一找到定時錄影節目，便會自動開始放影。



取消簡易節目放影：

按[停止] 按鈕 (12)。

注意：

- 該錄影機將記住您在簡易節目放影開始點，按[TIMER (REC)] (定時器 (錄影)) 按鈕 (14)，將定時錄影設定為待命狀態的位置。
- 如果您在定時錄影結束後，取出了錄影帶，簡易節目放影功能將不會工作。

要求服務之前

屏幕顯示信息

出錯信息表示在 [] 括號之內。

[PLEASE PUT IN A VIDEO CASSETTE.]

- 未插入錄影帶，卻按了 [REC/OTR] (錄影/單觸錄影) 按鈕 (39) ([REC] (錄影) 按鈕 (15) 或 [TIMER (REC)] (定時器 (錄影)) 按鈕 (14))。
→ 插入一盒錄影帶。

[PLEASE STOP THE TAPE.]

- 在放影中選擇了 [TUNER PRESET]。
→ 請停止磁帶運行。

[PLEASE SET THE CLOCK.]

- 未設定時鐘，卻按了 [TIMER (REC)] (定時器 (錄影)) 按鈕 (14)，[PROG] (編排) 按鈕 (7)，[I-TIMER] (智能定時器) 按鈕 (23) 或 [CHECK] (檢查) 按鈕 (24))。
→ 請設定時鐘。

[PLEASE USE A CASSETTE WITH TAB.]

- 磁帶無保險片，卻按了 [REC/OTR] (錄影/單觸錄影) 按鈕 (39)，[REC] (錄影) 按鈕 (15) 或 [TIMER (REC)] (定時器 (錄影)) 按鈕 (14))。
→ 請使用保險片齊全的磁帶。

[NO TIMER RECORDING HAS BEEN SET.]

- 無定時節目，卻按了 [TIMER (REC)] (定時器 (錄影)) 按鈕 (14))。
→ 請設定定時錄影。

[VCR IS IN THE TIMER STANDBY MODE.]

- 在定時待命狀態下，卻按了 [VCR-ON/OFF] (錄影機開/關) 按鈕 (1))。
→ 按 [TIMER (REC)] (定時器 (錄影)) 按鈕 (14)，解除錄影機的定時待命狀態。

[CAN NOT FIND PROG PLAY DATA.]

- 無已編排的定時錄影數據，卻按了 [PROG PLAY] (編播放影) 按鈕 (21))。
→ 請設定定時錄影。

錄影機不能正常操作

症狀說明表示在 [] 括號之內。

[錄影機顯示不亮起。]

- 未連接電源線。
→ 請將電源線連接至電源。

[錄影機顯示亮起而錄影機不能操作。]

- 錄影機處於定時狀態。(主機上的 ⊕ 指示與 [TIMER (REC)] (定時器 (錄影)) 按鈕 (14) 閃爍或亮起。)
→ 按 [TIMER (REC)] (定時器 (錄影)) 按鈕 (14)，手動操作錄影機。
- 安全裝置正在操作。
→ 拔掉電源線，並等待 1 分鐘。重新連接電源，並檢查功能。
- 可能已結露。
→ 1 小時之內勿操作錄影機。

放影不能正常地操作

症狀說明表示在 [] 括號之內。

[畫面紊亂或無色。屏幕出現水平紋理或線條向下滾動。]

- 軌跡不正確。
→ 請調節軌跡。請參見第 36 頁。
- 電視機未被調諧至錄影機。
→ 請將電視機調諧至錄影機。請參見第 23 頁。
- 影像磁頭堵塞或磨損。
→ 有關具體情況，請諮詢經銷商。
- 當使用以 LP 或 EP 狀態錄製的 E300 型錄影帶時，播放的畫面失真。
→ 我們建議您使用除 E300 型以外的錄影帶。
- 當您用 MESECAM 制式，以 EP 狀態轉錄磁帶時，播放的畫面失真。
→ 然而，這些並非功能失常。
→ 我們建議您在 EP 狀態下，用 PAL 制式進行錄影。

不能正常地進行錄影

症狀說明表示在 [] 括號之內。

[不管何時進行錄影，⏻ 指示都閃爍。]

- 錄影帶的保險片已經缺損。
→ 請使用保險片齊全的錄影帶，或不再需要原來的錄影時，請用膠帶紙蓋住保險片孔。

[錄製的畫面有雜訊或空白屏幕。]

- 天線或天線纜線已損壞。
→ 檢查連接至錄影機的天線。請參見第 22 頁。
→ 檢查一般的電視畫面。如果無畫面時，請檢查您的天線。
- 錄影機不能正確調諧。
→ 重新調諧錄影機。請參見第 23-24 頁。
- 已選擇了 A1 或 A2。
→ 請選擇需要的電視節目。

[不能進行定時錄影。]

- 時鐘或日曆的設定不正確。
→ 檢查時鐘和日曆。將其設定在現在時間。(注意本機為 24 小時制。)
請參見第 25 頁。
- 對錄影開始或結束的時間設定不當。
→ 請正確地設定錄影開始和結束的時間。
- 錄影機未設定於定時錄影狀態。
→ 在編排了定時錄影之後，請按 [TIMER (REC)] (定時器 (錄影)) 按鈕 (14))。

[不能進行 AV 外部錄影。]

- 未選擇 A1 或 A2。
→ 請按 [INPUT SEL] (輸入選擇) 按鈕 (6)，選擇 A1 或 A2。
- 外部 AV 連接不當。
→ 檢查外部影像和音頻信號源的連接是否正確。
請參見第 30 頁。

遙控器不能正常操作

症狀說明表示在 [] 括號之內。

[遙控器不能正常操作。]

- 遙控器發射光束未到達錄影機。
→ 要確保遙控器對準錄影機，且發射光束不受阻礙。
- 距離太遠。
→ 請在離錄影機 7 米之內使用遙控器。
- 電池已經耗盡。
→ 請更換電池。請留心第 20 頁中的更換注意事項。
- 電池的極性 (⊕/⊖) 放反了。
→ 請按照第 20 頁中所述，正確地裝入電池。
- 遙控器信號傳感器暴露於強光源之下，如直射的陽光或倒置的熒光燈。
→ 盡可能使遙控器信號傳感器遠離強光源。

石英觀看控制

石英觀看控制功能可確保您總能獲得最佳的畫質，使您能夠自動得到最好的圖像。

調節播放畫面

一般的情況下，錄影機會自動將播放的畫面調節至最佳品質。然而，在某些情況下，可能需要用手動進行調節。

若畫面含有雜訊條紋，且無法看清（軌跡調節）：

在正常放影、慢動作放影或靜止放影中，若出現了雜訊條紋，請依下列步驟進行操作。

在正常或慢動作放影中，按 [TRACKING/V-LOCK] 按鈕 (20) 的 + 或 - 按鈕，直至干擾條消失。

- 在靜止放影中，若出現雜訊條紋，請將錄影機切換至慢動作放影狀態，然後如上所述，調節軌跡。



恢復自動軌跡調整：

同時按 [TRACKING/V-LOCK] 按鈕 (20) 的 + 或 - 按鈕。

如果靜止畫面正在晃動（垂直鎖定調整）：

如果靜止畫面晃動，請依下述步驟來進行操作。

在靜止放影過程中，持續按住 [TRACKING/V-LOCK] 按鈕

(20) + 或 - 直到畫面停止晃動。

注意事項：

- 對於某些型號的電視機和錄影帶，可能無法正確地調節軌跡。
- 如果您播放在其餘錄影機上錄製的磁帶時，畫質可能會比較低劣，並有可能需要調節軌跡。同樣，在某些電視機上，在特殊放影功能中畫面可能會晃動。然而，這並非功能失常。

影像磁頭很髒時

如果影像磁頭變髒，則將無法清晰地錄製和播放畫面。（看下列狀況。）

普通畫面 輕微髒污 嚴重髒污



如果有此事發生，請連續插入和退出錄影帶 5-10 次，以清除影像磁頭的髒污。

如果進行上述操作後，仍未解決問題，請諮詢維修人員，以求得到幫助。

規格

NV-HV62GH

電源：	110-240 V AC 50/60 Hz
耗電量：	13 W
錄影系統：	2 個旋轉磁頭，螺旋掃描系統
影像磁頭：	4 個磁頭
音頻磁頭：	2 個磁頭（高保真）
磁帶速度：	PAL 時 SP; 23.39 mm/s LP; 11.7 mm/s EP; 7.8 mm/s NTSC 時 SP; 33.3 mm/s EP; 11.1 mm/s
磁帶規格：	VHS 磁帶
錄影/放影時間：	PAL 時 SP; 240 分鐘（用 NV-E240 磁帶） PAL 時 LP; 480 分鐘（用 NV-E240 磁帶） PAL 時 EP; 720 分鐘（用 NV-E240 磁帶）
快進/倒帶時間：	約 60 秒（用 NV-E180 磁帶，快進/倒帶時） 約 43 秒（用 NV-E180 磁帶，飛速倒帶時）
影像	
電視制式：	CCIR; 625 線、50 幕、PAL 彩色信號 EIA; 525 線、60 幕、NTSC 彩色信號
調制系統：	亮度; FM 方位錄影 彩色信號; 轉化副載波相移式錄影
輸入電平：	影像輸入 (PHONO); 1.0 Vp-p、75 ohm、端接式
輸出電平：	影像輸出 (PHONO); 1.0 Vp-p、75 ohm、端接式 RF 調制; UHF 頻道 E21-E69 75 ohm
音頻	
輸入電平：	音頻輸入 (PHONO); -6 dBV, 大於 47 kohm
輸出電平：	音頻輸出 (PHONO); -6 dBV, 小於 1 kohm
音頻軌跡：	1 軌跡（僅普通單聲道）、 2 聲道（高保真立體聲）
影像水平清晰度：	彩色; 大於 240 線 (SP)
信噪比：	影像; 大於 43 dB (SP) 音頻; 大於 65 dB（高保真）
動態範圍：	音頻; 大於 90 dB（高保真音頻軌跡）
音頻響應：	20 Hz-20 kHz / 高保真
晃抖度：	0.005% Wrms / 高保真
操作溫度：	5°C-40°C
操作濕度：	35%-80%
重量：	2.6 kg
尺寸：	360 mm (寬) × 89 mm (高) × 226 mm (深)
標準附件：	1 根 AC 電源線 1 根 RF 同軸纜線 1 個 遙控器 2 個 R6 型電池 1 根 音頻/影像纜線

重量和尺寸為近似值。規格若有變更，恕不另行通知。