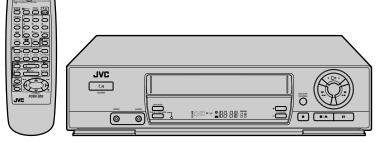
JVC



VIDEO CASSETTE RECORDER

HR-J457MS





INSTRUCTIONS

ENGLISH

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 2_{EN}

Safety Precautions

The rating plate and the safety caution are on the rear of the unit.

WARNING: DANGEROUS VOLTAGE INSIDE WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.

CAUTION

- When you are not using the recorder for a long period of time, it is recommended that you disconnect the power cord from the mains outlet.
- Dangerous voltage inside. Refer internal servicing to qualified service personnel. To prevent electric shock or fire hazard, remove the power cord from the mains outlet prior to connecting or disconnecting any signal lead or aerial.
- Use the conversion plug (not provided in certain areas) depending on the type of your AC wall outlet.

ATTENTION

- 1. This recorder can also receive SECAM colour television signals for recording and playback.
- 2.Recordings made of SECAM television signals produce monochrome pictures if played back on another video recorder of SECAM standard, or do not produce normal colour pictures if played back on another video recorder of PAL standard.
- 3.SECAM prerecorded cassettes or recordings made with a SECAM video recorder produce monochrome pictures when played back with this recorder.

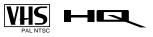
POWER SYSTEM

This set operates on voltage of AC110 – 240 V \sim (Rating), AC90 – 260 V \sim (Operating), 50/60 Hz with automatic switching.

Warning on lithium battery

The battery used in this device may present a fire or chemical burn hazard if mistreated. Do not recharge, disassemble, heat above 100°C or incinerate. Replace battery with Panasonic (Matsushita Electric), Sanyo, Sony or Maxell CR2025; use of another battery may present a risk of fire or explosion.

- Dispose of used battery promptly.
- Keep away from children.
- Do not disassemble and do not dispose of in fire.



- Only cassettes marked "VHS" can be used with this videorecorder.
- HQ VHS is compatible with existing VHS equipment.

IMPORTANT

- Please read the various precautions on this page before installing or operating the recorder.
- It should be noted that it may be unlawful to re-record pre-recorded tapes, records, or discs without the consent of the owner of copyright in the sound or video recording, broadcast or cable programme and in any literary, dramatic, musical, or artistic work embodied therein.

The POWER \oplus/I button does not completely shut off mains power from the unit, but switches operating current on and off. " \oplus " shows electrical power standby and " I " shows ON.

Video tapes recorded with this video recorder in the LP (Long Play) or EP (Extended Play) mode cannot be played back on a single-speed video recorder.

Failure to heed the following precautions may result in damage to the recorder, remote control or video cassette.

- 1. <u>DO NOT</u> place the recorder . . .
 - ... in an environment prone to extreme temperatures or humidity.
 - ... in direct sunlight.
 - ... in a dusty environment.
 - ... in an environment where strong magnetic fields are generated.
 - ... on a surface that is unstable or subject to vibration.
- 2. <u>DO NOT</u> block the recorder's ventilation openings.
- 3. <u>DO NOT</u> place heavy objects on the recorder or remote control.
- 4. <u>DO NOT</u> place anything which might spill on top of the recorder or remote control.
- 5. AVOID violent shocks to the recorder during transport.

MOISTURE CONDENSATION

Moisture in the air will condense on the recorder when you move it from a cold place to a warm place, or under extremely humid conditions—just as water droplets form in the surface of a glass filled with cold liquid. Moisture condensation on the head drum will cause damage to the tape. In conditions where condensation may occur, keep the recorder turned on for a few hours to let the moisture dry.

ABOUT HEAD CLEANING

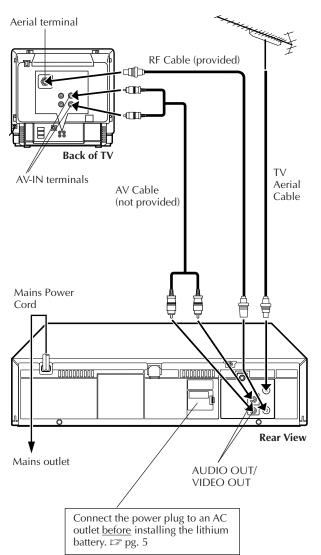
Accumulation of dirt and other particles on the video heads may cause the playback picture to become blurred or interrupted. Be sure to contact your nearest JVC dealer if such troubles occur.

Auto Head Cleaner

A built-in head cleaner automatically cleans the video heads and head drum whenever a tape is loaded or unloaded to reduce head clogging.

INSTALLING YOUR NEW RECORDER

Basic Connections



It's essential that your video recorder be properly connected. Follow these steps carefully. THESE STEPS MUST BE COM-PLETED BEFORE ANY VIDEO OPERATION CAN BE PER-FORMED.

CHECK CONTENTS

Make sure the package contains all of the accessories listed in "Specifications" (🖙 pg. 37).

SITUATE RECORDER

Place the recorder on a stable, horizontal surface.

CONNECT RECORDER TO

The connection method you use depends on the type of TV you have.

RF CONNECTION

3

- To Connect To A TV With NO AV Input Terminals . . .
 a- Disconnect the TV aerial cable from the TV.
 b- Connect the TV aerial cable to the ANT. IN jack
 - on the rear panel of the recorder.
 - c- Connect the provided RF cable between the RF OUT jack on the rear panel of the recorder and the TV's aerial terminal.

AV CONNECTION

- To Connect To A TV With AV Input Terminals . . . – Connect the aerial, recorder and TV as per "RF CONNECTION".
 - **b** Connect an optional AV cable between the AUDIO OUT and VIDEO OUT connectors on the rear panel of the recorder and the TV's AV-IN terminals .

CONNECT RECORDER TO MAINS

Plug the end of the mains power cord into a mains outlet.

NOTE:

Use the conversion plug (not provided in certain areas) depending on the type of your AC wall outlet.

ATTENTION

If you have finished all the necessary connections, go to "Video Channel Set" on page 4, then perform Auto Set Up on page 6; do NOT press the 0/1 button on the recorder/remote control to turn on the recorder's power before you start Auto Set Up.

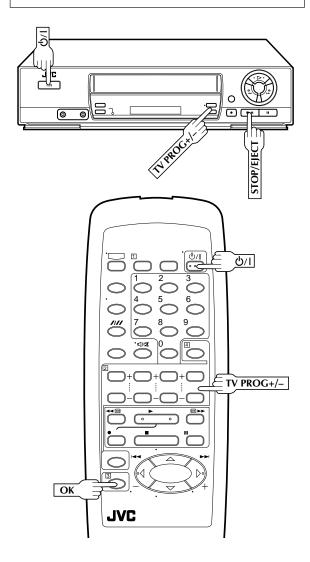


INITIAL SETTINGS

Video Channel Set

 4_{EN}

Video Channel (RF Output Channel) is the channel on which your TV receives picture and sound signals from the video recorder through the RF cable.



TEST SIGNAL



The channel on which the screen to the left appear clearly in step **3** is your Video Channel.

To view picture signals from the video recorder, set your TV to the Video Channel.

If you have connected the video recorder to your TV via the provided RF cable only (RF connection) – Go to "With RF Connection" below.

If you have connected the video recorder to your TV via both the provided RF cable and an AV cable (AV connection) – Go to "With AV Connection" on next page.

With **RF** Connection

IMPORTANT:

Before performing the following steps, make sure the recorder's power is off and there is no cassette inserted in the recorder.

ACCESS VIDEO CHANNEL SET MODE

Hold down **STOP/EJECT** on the recorder until the display panel shows the following.

<u>آل ال</u>

SELECT TV SYSTEM

Press **TV PROG +** or – to set appropriate TV system that matches the system of TV being used (refer to the table below).

ŰĴ,	36

1:B/G 2:D/K 3:I 4:M

Major Countries	TV System
Kuwait, U.A.E., Indonesia, Singapore,Thailand, Malaysia, Iran, Saudi Arabia, Egypt, Morocco, Lebanon, Iraq	B/G
China, Mongolia, Russia	D/K
Hong Kong	I
U.S.A., Japan, S.Korea, Taiwan	М



SET VIDEO CHANNEL

Set your TV to UHF channel 36.

- If the two vertical white bars appear clearly on the screen as shown in the illustration (EF "TEST SIGNAL" on page 4), press **OK** and then go to step **4**.
- If the two vertical white bars do not appear clearly, press **OK** and then **TV PROG +** or to set the video recorder to a vacant channel between 28 and 60 which is not occupied by any local station in your area.

(Ex.) If channel 50 is available in your area



Then set your TV to UHF channel 50 and check if the two vertical white bars appear clearly on the screen; if so, go to step **4**. If not, re-set the video recorder to another vacant channel and try again.

NOTES:

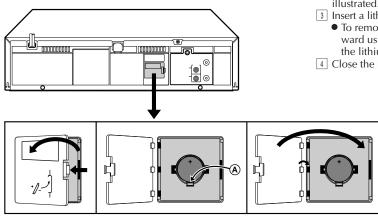
- If you set the video recorder to a channel which is occupied by a local station or has neighbouring channels that are occupied by local stations, the picture reception quality will be affected and some interference noise will appear on the TV screen. Be sure to select a vacant channel which has no broadcast on neighbouring channels.
- If you cannot obtain the two vertical white bars clearly with any channel between 28 and 60, consult your JVC dealer.

EXIT VIDEO CHANNEL SET MODE



Press 心/I to finish the setting.

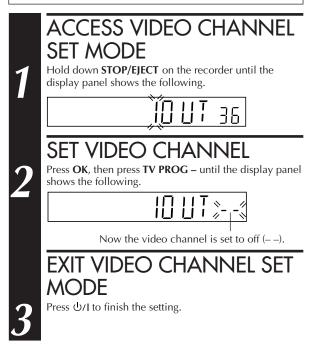
Be sure to connect the power plug to an AC outlet first before installing the lithium battery; otherwise, the battery's service life will be drastically shortened.



With AV Connection

IMPORTANT:

Before performing the following steps, make sure the recorder's power is off and there is no cassette inserted in the recorder.



To view picture signals from the video recorder, set your TV to its AV mode.

Installing/Removing the lithium battery

- Make sure that the power plug is connected to an AC outlet
 and turn off the VCR power.
- 2 Open the battery cover while pressing the release tab as _____illustrated.
- Insert a lithium battery with the plus (+) side up and push it in.
 To remove the lithium battery, press the latch (A) downward using a pointed non-metallic object, then pull out the lithium battery.
- 4 Close the battery cover until it clicks in place.

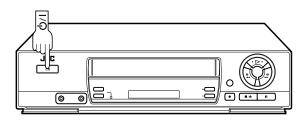
INITIAL SETTINGS (cont.)

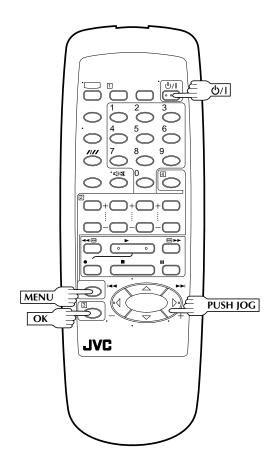
Auto Set Up Auto Channel Set

Before starting, make sure of the following:

 $6 \, \text{en}$

- The TV aerial cable should be connected to the recorder.
- The recorder's mains power cord should be connected to a mains outlet. IP pg. 3
- The "Video Channel Set" procedure should be done first and the TV should be set to its AV mode (with AV connection I g pg. 5) or video channel (with RF connection I g pg. 4).





The Auto Set Up function simplifies installation by guiding you through the procedures of setting the language, clock and tuner channels — simply follow the on-screen menus that appear when the \oplus /I button is first pressed to power on the recorder after you plug the mains power cord into a mains outlet.

IMPORTANT

- Don't press any buttons on the recorder or remote that are not directly related to the step you are performing while Auto Set Up is in progress.
- If you perform Auto Set Up successfully during installation, there's no need to separately perform the Language Select, Clock Set or Channel Set procedures, but if adjustments become necessary they can be performed as follows:
 - To change the selected language 🖙 pg. 9
 - To reset or adjust the time 🖙 pg. 9
 - To add/delete channels manually 🖙 pg. 27
 - To reset the tuner after moving to a different location $\ensuremath{\mathbb{I}}\xspace$ pg. 26

PERFORM AUTO SET UP

Press 心/I.



SELECT LANGUAGE

Press **PUSH JOG** $\triangle \bigtriangledown$ to place the pointer next to your desired language (English, Russian or Arabic), then press **OK** or **PUSH JOG** \triangleright .

CLOCK SET

DATE

01.01

YEAR

98

TIME 0:00

 $[\blacktriangle/ \bigtriangledown] \rightarrow \bigcirc$ [MENU] : EXIT

• The Clock Set screen appears.

SET TIME

3

Press **PUSH JOG** $\triangle \nabla$ to set the time, then press **OK** or **PUSH JOG** \triangleright .

• Press and hold either button to delay or advance the time by 30 minutes.

SET DATE

Press **PUSH JOG** $\triangle \nabla$ to set the date, then press **OK** or **PUSH JOG** \triangleright .

• Press and hold either button to change the date by 15 days.

SET YEAR

Press **PUSH JOG** $\triangle \nabla$ to set the year, then press **MENU**.

EN

Major Countries	TV System
Kuwait, U.A.E, Indonesia, Singapore, Thailand, Malaysia, Iran, Saudi Arabia, Egypt, Morocco, Lebanon, Iraq	B/G
China, Mongolia, Russia	D/K
Hong Kong	I
U.S.A., Japan, S.Korea, Taiwan	м

SELECT TV SYSTEM

Press **PUSH JOG** $\triangle \nabla$ to place the pointer next to the appropriate TV system (refer to the table on the left).

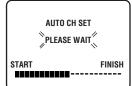
START AUTO CHANNEL SET

Press OK or PUSH JOG ▷.

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- The Auto Set Up function scans all the channels that are receivable by your recorder. It then automatically assigns each receivable channels to the **TV PROG** buttons. It skips non-receivable channels.
- As Auto Set Up progresses, the "■" mark on the screen moves from left to right. (See below.)

DO NOT press any button on the recorder or remote control while Auto Set Up is in progress.



-



During Auto Set Up

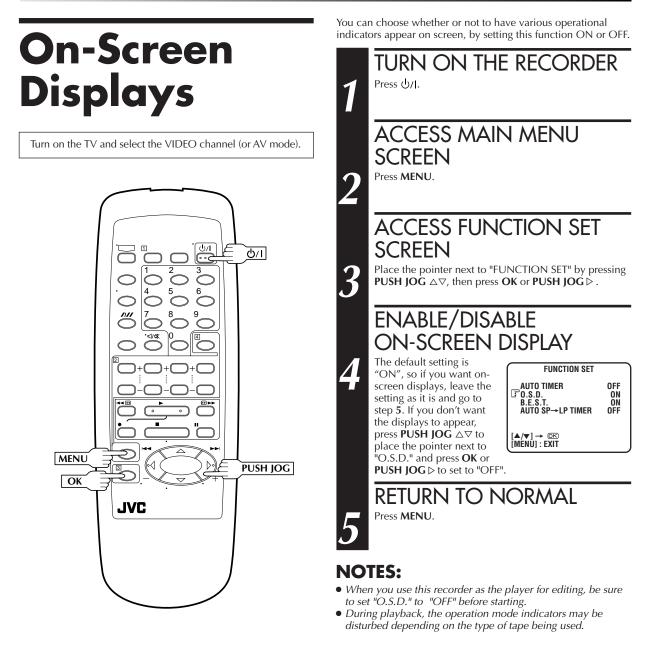
"PLEASE WAIT" blinks on the screen and "Auto" blinks on the front display panel.

When Auto Set Up is completed, the lowest position number will appear on the front display panel.

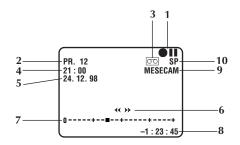
NOTES:

- If you perform Auto Set Up when the aerial cable is not connected properly, "SCAN COMPLETED -NO SIGNAL-" appears on the screen. When this happens, make sure of the aerial connection and press **OK**; Auto Set Up will take place again.
- If there is a power cut, or if you press U/I or **MENU** while Auto Set Up is in progress, Auto Set Up will be interrupted; be sure to turn off the recorder power once and try again.
- If you want to set the tuner manually such as to add or skip channels, to swap channel positions, or to fine-tune channels, IF pg. 27–29.
- If no sound accompanies the picture on some channels that have been stored by Auto Set Up, the TV system setting for those channels may be incorrect. Select the appropriate TV system for those channels. IF "TV System Selection When you see the picture but hear no audio" on page 29.

INITIAL SETTINGS (cont.)



The superimposed indication on the TV screen tells you what the recorder is doing.



 8_{EN}

- 1- Operation mode indicators
- 2- Channel position number/Aux. indicator (F-1)
- 3- Cassette loaded mark
- 4– Clock display
- 5- Current day/month/year
- 6– Tape direction
- 7- Tape position indicator (III pg. 13)
- 8– Counter display
- 9- Colour system indicator (EF pg. 24)
- 10- Tape speed SP/LP/EP

Select Language

Turn on the TV and select the VIDEO channel (or AV mode).

TURN ON THE RECORDER	
Press U/I.	

ACCESS MAIN MENU SCREEN Press MENU.

ACCESS INITIAL SET SCREEN

Press **PUSH JOG** $\triangle \nabla$ to place the pointer next to "INITIAL SET", then press **OK** or **PUSH JOG** \triangleright .

MAI	N MEN	U
FUNCTION S	ET	
INITIAL SET		

 $[\blacktriangle/\forall] \rightarrow \bigcirc$ [MENU] : EXIT

ACCESS LANGUAGE SELECT SCREEN

Press **PUSH JOG** $\triangle \nabla$ to place the pointer next to "LANGUAGE", then press **OK** or **PUSH JOG** \triangleright .

SELECT LANGUAGE

5

Place the pointer next to the language of your choice (English, Russian or Arabic) by pressing **PUSH JOG** $\land \nabla$, then press **OK** or **PUSH JOG** \triangleright .

RETURN TO NORMAL SCREEN Press MENU.

Clock Set

Turn on the TV and select the VIDEO channel (or AV mode).

TURN	THE	RECORDER	ON

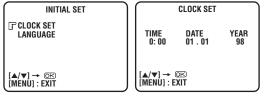
Press ෆ්/l.

ACCESS MAIN MENU SCREEN Press MENU.

ACCESS INITIAL SET SCREEN Press PUSH JOG △マ to place the pointer next to "INITIAL SET", then press OK or PUSH JOG ▷.

ACCESS CLOCK SET SCREEN	1
Press PUSH JOG $\triangle \nabla$ to place the pointer next	to
ICLOCK SETIL these serves OK as DUSULIOC N	TI

"CLOCK SET", then press **OK** or **PUSH JOG** ▷ . The Clock Set screen appears.



SET TIME

Press **PUSH JOG** $\triangle \nabla$ to set the time, then press **OK** or **PUSH JOG** \triangleright .

• Press and hold either button to delay or advance the time by 30 minutes.

SET DATE

Press PUSH JOG $\triangle \nabla$ to set the date, then press OK or PUSH JOG \triangleright .

• Press and hold either button to change the date by 15 days.

SET YEAR

Press **PUSH JOG** $\triangle \nabla$ to set the year.

START CLOCK OPERATION

Press MENU.

NOTE:

h

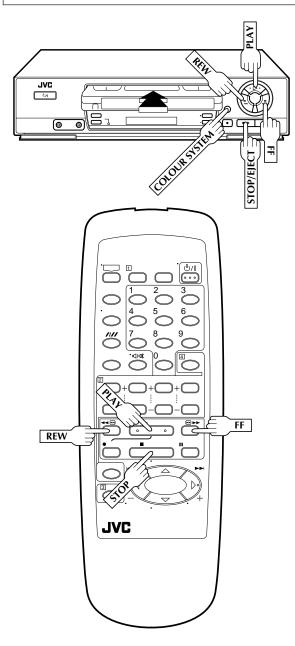
If the year digits are automatically cleared, it is possible that you have input 29th February for a non-leap year. Input the correct data.

10_{EN}

PLAYBACK

Basic Playback

Turn on the TV and select the VIDEO channel (or AV mode).



The easiest, most basic operation possible with your video recorder is tape playback. Already-recorded signals on a video tape are read by your video recorder and displayed on your TV just like a TV programme.

LOAD A CASSETTE

Make sure the window side is up, the rear label side is facing you and the arrow on the front of the cassette is point toward the recorder. Don't apply too much pressure when inserting.

- The recorder power comes on automatically and the counter is reset to 0:00:00.
- Select the appropriate colour system by pressing the **COLOUR SYSTEM** button. (CF pg. 24)
- If the record safety tab has been removed, playback begins automatically. (ICF pg. 14)

FIND PROGRAMME START POINT

If the tape is advanced past the start point, press **REW**. To go forward, press **FF**.

START PLAYBACK

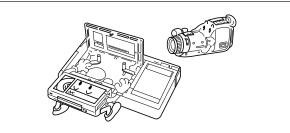
Press **PLAY**. "BEST" appears blinking in the recorder's display panel during automatic tracking. (CP pg. 16)

STOP PLAYBACK

Press **STOP** on the remote or **STOP/EJECT** on the recorder's front panel. Then press **STOP/EJECT** to remove the cassette.

Usable cassettes

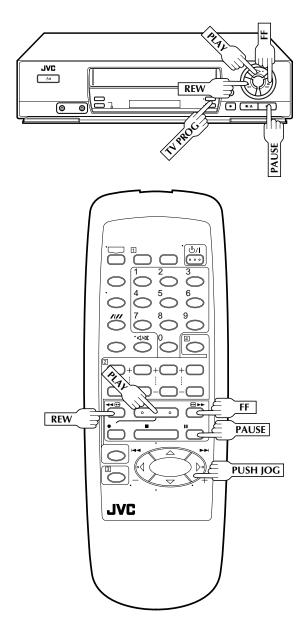
2



- Compact VHS camcorder recordings can be played on this video recorder. Simply place the recorded cassette into a VHS Cassette Adapter and it can be used just like any full-sized VHS cassette.
- This video recorder can record on regular VHS and Super VHS cassettes. However, it will record and play back regular VHS signals only. It is not possible to play back a recorded Super VHS tape.

EN I

Playback **Features**



ATTENTION

In the search, still, slow-motion or frame-by-frame playback mode,

- the picture will be distorted.
- the noise bars will appear.
- there will be a loss of colour with an LP-recorded tape.

Variable-Speed Search



During playback, press **PUSH JOG** \triangleleft or \triangleright .

- The more times you press, the faster the playback picture moves.
- To decrease speed, press the button for the opposite direction.

To resume normal playback, press PLAY.

Still Picture/Frame-By-Frame Playback

PAUSE DURING PLAYBACK

Press PAUSE. If there is vertical jitter, use the TV PROG buttons to correct the picture.

ACTIVATE FRAME-BY-FRAME PLAYBACK

Press PAUSE.

OR

Press **PUSH JOG** \triangleleft or \triangleright .

To resume normal playback, press PLAY.

Slow Motion



ACTIVATE SLOW-MOTION PLAYBACK

During still picture, press and hold PAUSE for 2 seconds, then release. Press and release again to return to still picture.

OR

During still picture, press and hold **PUSH JOG** \triangleleft or \triangleright . Release to return to still picture.

To resume normal playback, press PLAY.

High-Speed Search



ACTIVATE HIGH-SPEED SEARCH

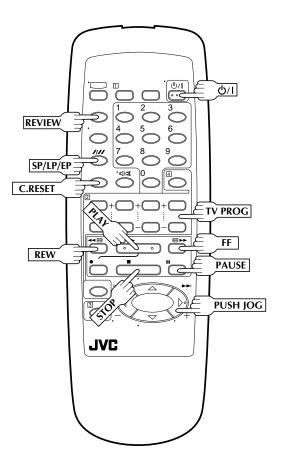


During playback or still, press FF for forward highspeed search, or **REW** for reverse high-speed search.

To resume normal playback, press PLAY.

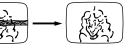
NOTE:

For short searches, press and hold FF or REW for over 2 seconds during playback or still picture. When released, normal playback resumes.



Manual Tracking

Your video recorder is equipped with automatic tracking control. During playback, you can override this and adjust the tracking manually by pressing the **TV PROG** buttons.



OVERRIDE AUTOMATIC TRACKING

Press //// (SP/LP/EP) on the remote to engage manual tracking.

ADJUST TRACKING MANUALLY

Press TV PROG + or - to adjust tracking.

RETURN TO AUTOMATIC TRACKING



2

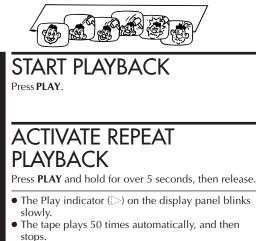
Press **/// (SP/LP/EP)** on the remote to re-engage automatic tracking.

NOTE:

When a new tape is inserted, the recorder enters the automatic tracking mode automatically.

Repeat Playback

Your video recorder can automatically play back the whole tape 50 times repeatedly.



STOP PLAYBACK

Press **STOP** at any time to stop playback.

NOTE:

Pressing PLAY, REW, FF or PAUSE also stops Repeat Playback.

en 13

Index Search

Your recorder automatically marks index codes at the beginning of each recording. This function gives you quick access to any one of 9 index codes in either direction.



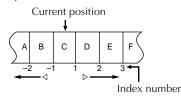
NOTE:

Before starting, make sure the recorder is in the Stop mode.

ACTIVATE INDEX SEARCH

Press **PUSH JOG** \triangleleft or \triangleright on the remote control. " \blacksquare 1" or " \blacksquare 1" is displayed on screen and search begins in the corresponding direction.

- To access index codes 2 through 9, press PUSH JOG
 ⊲ or ▷ repeatedly until the correct index number is displayed.
 - Ex.: To locate the beginning of B from the current position, press PUSH JOG ⊲ twice. To locate the beginning of D from the current position, press PUSH JOG ▷ once.



• When the specified index code is located, playback begins automatically.

Instant ReView

Simply by pressing a single button, the recorder power comes on, rewinds, and begins playback of the last timer-recorded programme. If you have several programmes recorded, you can easily access any of them.

NOTE:

Before starting, make sure that the recorder is off and that the Timer mode is disengaged.

ACTIVATE INSTANT REVIEW

Press **REVIEW**. The recorder power comes on and the recorder searches for the index code indicating the start of the last timer-recorded programme. Once it's found, playback begins automatically.

 The front display panel tells you how many programmes have been recorded. If you have, for example, 3 programmes, "REVIEW" and "3" appear and blink. To watch the first of the 3 programmes, press **REVIEW** <u>three times</u>. The recorder searches and begins playback automatically. You can access a programme as far as 9 index codes away from the current tape position.

NOTE:

Instant ReView is not possible while the recorder is in the Timer mode.

Next Function Memory

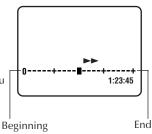
You can set your recorder's power to go off automatically after the tape is fully rewound. Before starting, make sure the recorder is in the Stop mode.

For Automatic Power Off After Tape Rewind . . .

... press REW, then press U/I within 2 seconds.

Tape Position Indicator

The tape position indicator appears on screen when, from the Stop mode, you press **FF**, **REW** or perform an Index Search. The position of "■" in relation to "0" (beginning) or "+" (end) shows you where you are on the tape. "O.S.D." (III pg. 8) must be set to "ON", or the indicator will not appear.



NOTE:

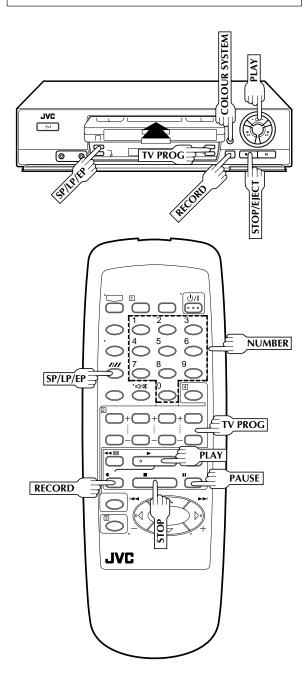
Depending on the type of tape used, there may be times when the indication is not correct.

RECORDING

Basic Recording

 14_{EN}

Turn on the TV and select the VIDEO channel (or AV mode).



TV signals being received by the recorder's built-in tuner can be recorded onto a video tape. You can "capture" a TV programme using your video recorder.

LOAD A CASSETTE

Insert a cassette with the record safety tab intact.

- The counter is reset to 0:00:00 and the recorder power comes on automatically.
- Select the appropriate colour system by pressing the COLOUR SYSTEM button.(III) pg. 24)

CHOOSE A PROGRAMME

Press **TV PROG +/-** or the **NUMBER** keys to select the channel you wish to record.

SET TAPE SPEED

Press **//// (SP/LP/EP)**. Check the SP/LP/EP indicator on the recorder display panel to confirm the selected tape speed.

START RECORDING

Press and hold **RECORD** and **PLAY** on the remote control, or press **RECORD** on the recorder.

B.E.S.T. takes place at the beginning of each first SP and first LP (or EP) recording after inserting the cassette ($I\!I\!I\!P$ gg. 16).

PAUSE/RESUME RECORDING

Press PAUSE. Press PLAY to resume recording.

STOP RECORDING

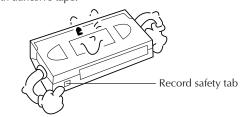
Press **STOP** on the remote control or **STOP/EJECT** on the recorder. Then press **STOP/EJECT** to remove the cassette.

Recording Resume Function

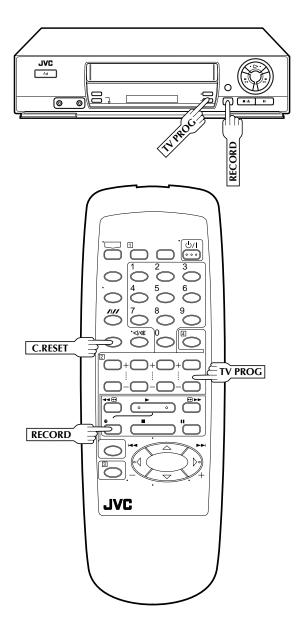
If there is a power outage during recording (or Instant Timer Recording or timer recording), the recording will resume automatically when power is restored to the recorder unless the recorder's memory backup has expired.

Accidental erasure prevention

• To prevent accidental recording on a recorded cassette, remove its safety tab. To record on it later, cover the hole with adhesive tape.



Recording Features



Record One Programme While Watching Another

SELECT CHANNEL TO WATCH

Once recording is in progress, all you need to do is to set the channel controls on the TV for the station you wish to view.

• The programme selected with the TV's channel controls appears on the TV screen while the one selected with the **TV PROG** buttons is recorded on the tape.

Elapsed Recording Time Indication

You can check the exact time of a recording.

RESET COUNTER



Press C. RESET before starting recording or playback.

• The counter is reset to "0:00:00" and shows the exact elapsed time as the tape runs.

Instant Timer Recording (ITR)

This easy method lets you record for from 30 minutes to 6 hours (selectable in 30-min. increments), and shuts the recorder off after recording is finished.



START RECORDING

Press **RECORD** on the recorder.

ENGAGE ITR MODE

Press **RECORD** again. "()" blinks and 0:30 appears on the front display panel.

SET RECORDING DURATION

If you want to record for more than 30 minutes, press **RECORD** to extend the time. Each press extends recording time by 30 minutes.

NOTE:

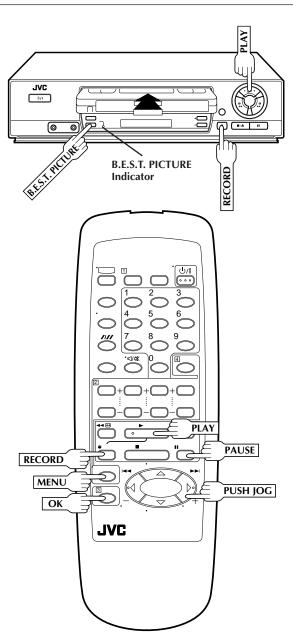
You can only perform ITR using the **RECORD** button on the recorder's front panel.

16_{EN}

RECORDING (cont.)

B.E.S.T. Picture System

Turn on the TV and select the VIDEO channel (or AV mode).



The B.E.S.T. (Biconditional Equalised Signal Tracking) system checks the condition of the tape in use during recording and playback, and compensates to provide the highest-possible recording and playback pictures. The default setting for both recording and playback is "ON".

Preparation LOAD A CASSETTE Insert a cassette with the record safety tab intact. • The recorder power comes on automatically. ACCESS MAIN MENU **SCREEN** Press MENU. 2 ACCESS FUNCTION SET **SCREEN** Place the pointer next to 3 MAIN MENU "FUNCTION SET" by **FUNCTION SET** pressing PUSH JOG $\triangle \nabla$, TUNER SET then press OK or PUSH JOG ▷. $[\blacktriangle/ \bigtriangledown] \rightarrow \bigcirc \land$ [MENU] : EXIT SELECT MODE Place the pointer next to FUNCTION SET "B.E.S.T." by pressing **PUSH JOG** $\triangle \nabla$, then press AUTO TIMER OFF 0.S.D. B.E.S.T ON ON OK or PUSH JOG ▷ to set to "ON" or "OFF". AUTO SP→LP TIMER OFF $[\blacktriangle/\bigtriangledown] \rightarrow \bigcirc \land$ [MENU] : EXIT **RETURN TO NORMAL SCREEN** Press MENU.

You can also turn on/off the B.E.S.T. system by simply pressing the **B.E.S.T. PICTURE** button on the recorder. Press **B.E.S.T. PICTURE** so that the B.E.S.T. PICTURE indicator lights up.

- The B.E.S.T. system is activated and the "B.E.S.T." setting at the Function Set screen will also be set to "ON".
- To turn off the B.E.S.T. system, press the B.E.S.T. PICTURE button again so that the B.E.S.T. PICTURE indicator goes off.
 - The "B.E.S.T." setting at the Function Set screen will also be set to "OFF".

$_{EN} 17$

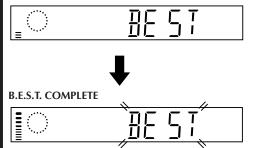
Recording



START RECORDING

Press and hold **RECORD** and press **PLAY** on the remote, or press **RECORD** on the recorder.

DURING B.E.S.T.



• The recorder spends approximately 7 seconds assessing the condition of the tape, then begins recording.

NOTES:

- The B.E.S.T. system works for both SP and LP (or EP) modes only after a tape has been inserted and the Record mode is first initiated. It does not work during recording.
- In the case of timer recording, the B.E.S.T. system works before recording is initiated.
- Once the cassette is ejected, the B.E.S.T. data is cancelled. The next time the cassette is used for recording, B.E.S.T. is reperformed.
- Pressing the recorder's **RECORD** button while "BEST" is displayed does not start Instant Timer Recording (cr pg. 15).

ATTENTION

Since the B.E.S.T. system works before recording actually starts, there is a delay of approximately 7 seconds after **RECORD** and **PLAY** on the remote are pressed, or **RECORD** on the recorder is pressed. To make sure you record the desired scene or programme in its entirety, first perform the following steps:

- 1) Press and hold **PAUSE** and press **RECORD** to engage the RECORD PAUSE mode.
 - The recorder then automatically checks the condition of the tape and, after approximately 7 seconds, reenters RECORD PAUSE.
- 2) Press PLAY to start recording.
 - If you want to bypass the B.E.S.T. system and begin recording immediately, set "B.E.S.T." to "OFF" in step 4 on page 16.

Playback

The recorder assesses the quality of the tape once you initiate playback.



appears blinking on the recorder's display panel.

NOTES:

- When watching a tape recorded with "B.E.S.T." set to "ON", it is recommended that you leave B.E.S.T. on during playback as well.
- When watching a rental tape or one recorded on another video recorder, or when using this recorder as the player for editing, set B.E.S.T. to your preference by performing steps **1** through **5** on page 16.
- "BEST" only appears at the beginning of automatic tracking. Even though it doesn't appear after that, the B.E.S.T. function is operative.

18_{EN}

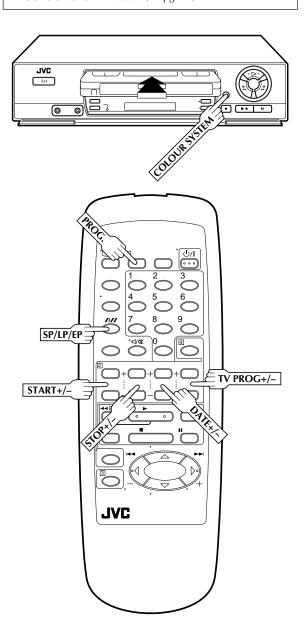
TIMER RECORDIN

Express Timer Programming

Remember, the clock must be set before you can programme the timer (27 pg. 9).

Before performing the following steps:

- Insert a cassette with the safety tab in place. The recorder will come on automatically.
- Turn on the TV and select the VIDEO channel (or AV mode).
- Select the appropriate colour system by pressing the COLOUR SYSTEM button. (Er pg. 24)



ACCESS TIMER PROGRAMMING SCREEN Press PROG.. (If you're just starting out, "P1" appears.) STOP START SP DATE TV PROG [+/-] → ©K [PROG] : EXIT ENTER PROGRAMME START TIME Press START +/- to enter the time you want START 21:00 STOP recording to start. SP Press and hold START TV PROG DATE +/- to move in 30minute increments, or [+/−] → OK [PROG] : EXIT press and release repeatedly to move 1 minute at a time. ENTER PROGRAMME STOP TIME Press **STOP +/-** to enter the time you want recording to 3 stop. • Press and hold STOP +/- to move in 30-minute increments, or press and release repeatedly to move 1 minute at a time. ENTER PROGRAMME DATE Press **DATE +/-**. (The current date appears on screen. The date you enter appears in its place.) ENTER CHANNEL

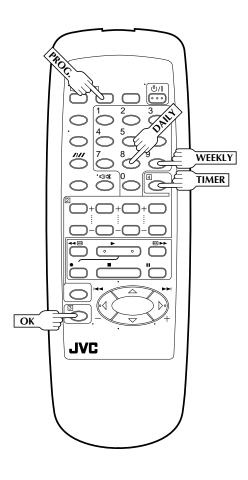
POSITION

Press TV PROG +/-.

START 21:00	- P1 →	- STOP 22:00
		SP
DATE 25.12 [+/-] → ©K [PROG] : EXI	г	TV PROG 1

SET TAPE SPEED

Press //// (SP/LP/EP) to set the tape speed.



RETURN TO NORMAL SCREEN

After confirming all information is correct, press **PROG.** or **OK**. "PROGRAM COMPLETED" appears on the screen for about 5 seconds, then normal screen appears.

• Repeat steps 1 – 7 for each additional programme.

ENGAGE RECORDER'S TIMER MODE

8

Press **TIMER**. The recorder turns off automatically and O appears on the display panel.

• To disengage the timer, press **TIMER** again.

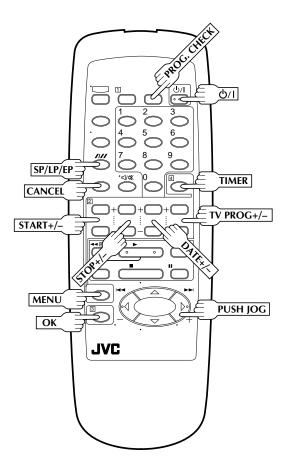
To Timer-Record Weekly Or Daily Serials . . .

... anytime during steps 2 through 7, press WEEKLY (NUMBER key "9") for weekly serials or DAILY (NUMBER key "8") for daily serials (Monday–Friday). Either "WEEKLY" or "DAILY" appears on the screen. Pressing the button again makes the corresponding indication disappear.

NOTE:

You can programme this recorder to timer-record as many as 8 programmes. If you try to programme the recorder to record a ninth, "PROGRAM FULL" appears on screen. To record the extra programme, you must first cancel any unnecessary programmes (CF pg. 20).

$2()_{\rm EN}$



Check, Cancel And Replace Programmes

DISENGAGE TIMER MODE Press TIMER, then press U/I. ACCESS PROGRAM CHECK SCREEN Press PROG. CHECK. 2 CH 3 2 1 PR START STOP 1 8:00 10:00 DATE 24.12 25.12 25.12 10:00 10:45 11:30 13:00 2 3 4 5 6 7 [PROG CHECK] : NEXT ACCESS PROGRAM SCREEN Press PROG. CHECK again 3 - P1 to check more informa-START STOP 8:00 10:00 tion. Each time you press PROG. CHECK, the next SP programme's information TV PROG DATE appears. 24:12 3

To cancel or replace a programme...

[PROG CHECK] : EXIT



Press CANCEL to cancel a programme. To replace a programme, press the appropriate button: START+/-, STOP+/-, DATE+/-, TV PROG+/-, SP/LP/EP (

RETURN TO NORMAL SCREEN

Press PROG. CHECK as many times as necessary. If there are still some programmes remaining, go on to step 6.

RETURN TO TIMER MODE Press TIMER.



5

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Auto SP \rightarrow LP Timer

If, when timer-recording in SP mode, there is not enough tape to record the entire programme, the recorder automatically switches to LP mode (with PAL broadcasts) or EP mode (with NTSC broadcasts) to allow complete recording.

For Example . . .

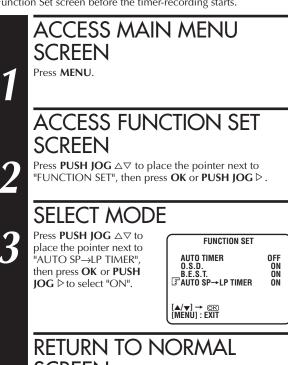
Recording a PAL-broadcast programme of 210 minutes in length onto a 180-minute tape

Approximately 150 minutes	Approximately 60 minutes

SP mode I P mode

Total 210 minutes

Make sure you set "AUTO SP→LP TIMER" to "ON" at the Function Set screen before the timer-recording starts.



SCREEN

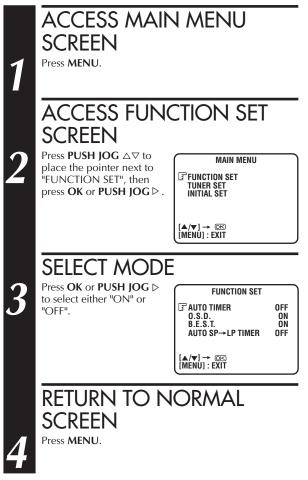
Press MENU.

NOTES:

- If you have programmed the recorder to timer-record 2 or more programmes, the second programme and those thereafter may not fit on the tape if you set "AUTO SP→LP TIMER" to "ON". In this case, make sure the mode is not engaged, then set the tape speed manually during timer programming.
- In order to ensure that the recording fits on the tape, this feature may leave a slight non-recorded section at the end of the tape.
- There may be some noise and sound disturbance at the point on the tape where the recorder switches from SP to LP (or EP) mode.
- The Auto SP—LP Timer feature is not available during ITR (Instant Timer Recording), and the feature will not work properly with any tapes longer than E-180 or with some tapes of shorter lengths.

Auto Timer

When the Auto Timer is set to ON the timer is automatically engaged when the recorder power is turned off and automatically disengaged when the recorder is powered back on.



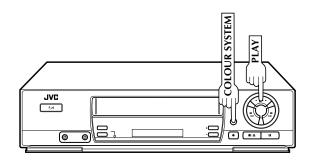
NOTE:

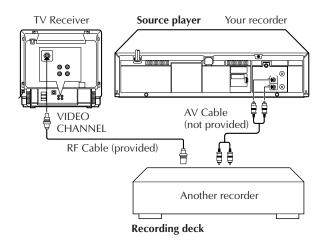
For safety, when Auto timer is set to "OFF", all other recorder functions are disabled while the Timer mode is engaged. To disengage the timer, press TIMER.

 $22_{\rm EN}$

EDITING

Edit To Another Video Recorder





You can use your video recorder as the source player and another video recorder as the recording deck.

MAKE CONNECTIONS

Connect the player's AUDIO/VIDEO OUT connectors to the recorder's AUDIO/VIDEO IN connectors.

SET RECORDING DECK'S INPUT MODE

Set the recording deck's external input mode.

START SOURCE PLAYER

Press **PLAY** on the source player.

START RECORDING DECK

Engage its Record mode.

NOTES:

2

3

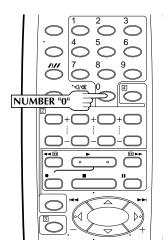
- All necessary cables can be obtained from your dealer.
- NTSC tapes being played back in the NTSC → PAL mode (□ p. 25) cannot be dubbed to another recorder.
- When you dub an NTSC tape using your recorder as the playback deck, select NTSC 3.58 (or NTSC 4.43) with the COLOUR SYSTEM button. (IF p. 24)
- If you do not want to record the superimposed indication on the editied tape, be sure to set "O.S.D." to "OFF" before you start editing (I pg. 8).

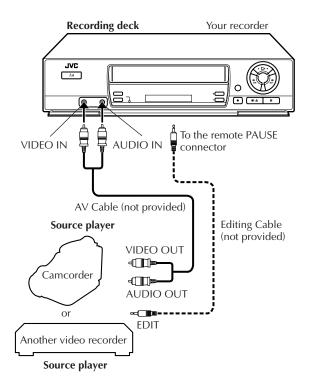
IMPORTANT

- To edit, both the player and the recorder must be of the same colour system. Press your recorder's **COLOUR SYSTEM** button to select the appropriate colour system.
- For more information on multi-system compatibility,
 If pg. 24.



Edit From A **Camcorder Or Another Video** Recorder





You can use a camcorder or another video recorder as the source player and your video recorder as the recording deck.

MAKE CONNE

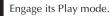
Connect the AUDIO/VIDEO OUT connectors on the camcorder or another video recorder to the front panel AUDIO/VIDEO input connectors on the recording deck.

• When a Master Edit Control-equipped JVC camcorder is used, the camcorder is capable of controlling the recorder. Refer to the camcorder's instruction manual for operating procedure.

SET RECORDER'S INPUT MODE

Press NUMBER key "0" so that "F-1" appears on the display panel.

START SOURCE PLAYER



START RECORDING DECK

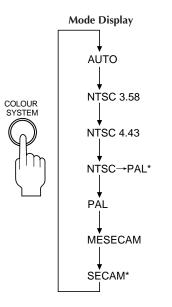
Engage its Record mode.

IMPORTANT

- To edit, both the player and the recorder must be of the same colour system. Press your recorder's COLOUR **SYSTEM** button to select the appropriate colour system.
- PAL, SECAM and NTSC camcorders can be used as a player for editing.
- For more information on multi-system compatibility, 🖙 pg. 24.



Setting Of The Colour System Select Buttons



* "NTSC \rightarrow PAL" and "SECAM" appear during playback only.

Use the **COLOUR SYSTEM** button on the front panel to select the colour system. Pressing this button changes the mode as illustrated on the left. The On-Screen display will show which mode is selected.

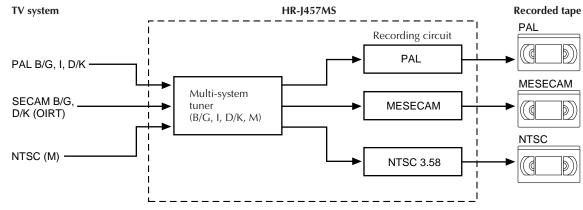
Mode	Description
AUTO	Usually set to this mode. This mode automatically detects PAL, NTSC, SECAM or MESECAM and adjusts to the colour system being recorded or played back. When it does not perform properly, set the colour system manually.
MANUAL	For recording, there is a choice of 4 selectable modes; PAL/MESECAM/NTSC 3.58/NTSC4.43. Select the mode that matches the colour signal being received. For playback, there is an additional mode which allows NTSC tapes to be played back and viewed on PAL TVs.

NOTES:

- In the AUTO mode, NTSC signals will be automatically recorded as NTSC 3.58.
- In the AUTO mode, NTSC tapes will be played back as NTSC 3.58.
- SECAM signals will always be recorded as MESECAM. Select the AUTO or the MESECAM mode when recording SECAM signals.
- When playing back a SECAM tape, select the AUTO, MESECAM or SECAM mode. The playback picture will always be monochrome in modes other than the SECAM mode. Be sure to select the AUTO mode after you finish viewing a SECAM tape in the SECAM mode.
- For SECAM tapes, only SP recordings can be played back on this recorder.
- In the NTSC4.43 mode, with some TVs, on-screen displays (Program screen etc.) may roll up or down and there may be a loss of colour. When this happens, select the AUTO mode.

Off-Air Recording

The built-in multi-system tuner is capable of receiving PAL B/G, I and D/K, and SECAM B/G and D/K and NTSC broadcasts.

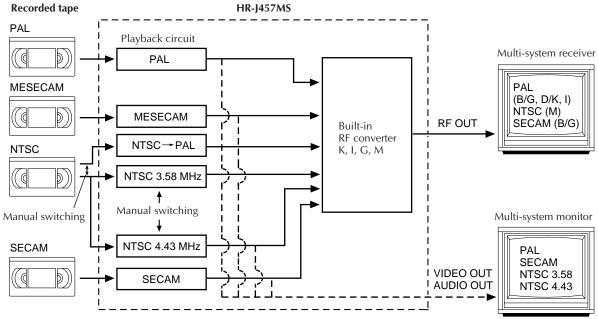


NOTE:

This model does not operate in BRAZIL (PAL-M) or ARGENTINA (PAL-N).

Playback

This recorder can play back all 4 types of recorded tape.



NOTES:

When viewing NTSC tapes on a PAL TV set:

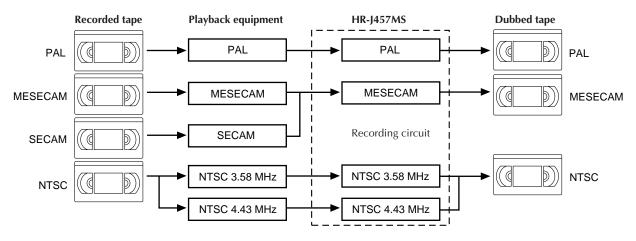
- The picture may shrink vertically with black bars appearing at the top and bottom of the screen. This is not a malfunction on the part of the video recorder nor the TV.
- The picture may roll up or down. This can be corrected using the V-HOLD control found on some TVs. (This cannot be corrected if the TV does not have a V-HOLD control.)
- During search, still, or frame-by-frame playback, the picture will be distorted, and there may be a loss of colour.

ATTENTION:

When this recorder is connected to a multi-system TV, the audio signal may not be heard or may be noisy if the colour system select switch of the TV is adjusted to the AUTO position. In such a case, set the TV's colour system select switch to the appropriate position which corresponds to the TV system you have selected at the TV System Select screen.

Tape-To-Tape Editing

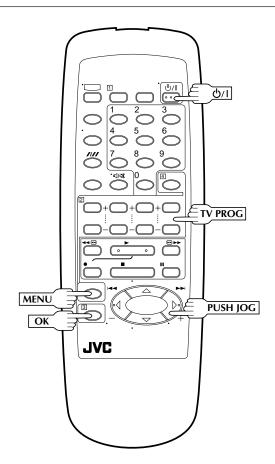
There are 4 different types of recorded tape, depending on the signal recorded.



TUNER SI



Turn on the TV and select the VIDEO channel (or AV mode).



IMPORTANT

Perform the following steps only if auto channel set has not been set correctly by Auto Set Up function (r pg. 6) or if you have moved to a different area or if a new station starts broadcasting in your area.

Your recorder needs to memorise all necessary stations in channel positions in order to record TV programmes. Auto Channel Set automatically assigns all receivable stations in your area so that you can call them up with the TV PROG buttons without going through any vacant channels.

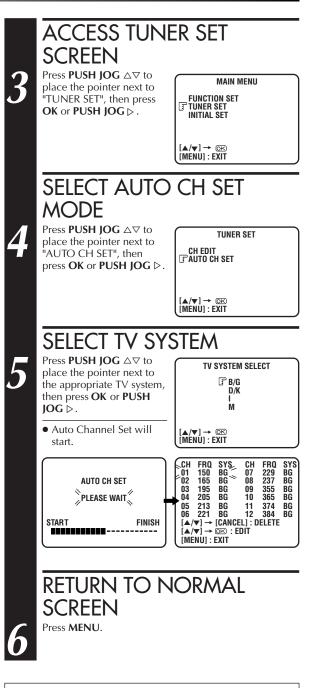
Auto Channel Set



TURN ON THE RECORDER Press U/I.

ACCESS MAIN MENU **SCREEN**





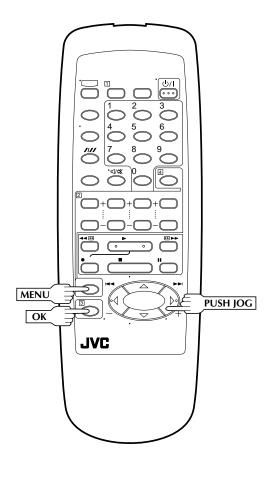
IMPORTANT

Since your video recorder memorizes all detected stations even if the reception condition is poor, some of those stored stations may produce a noisy picture. To delete those stations, 🖙 "Delete A Channel" on page 28.



Manual Channel Set

Store channels that were not stored during Auto Set Up (pg. 6) or Auto Channel Set (27 pg. 26).



ACCESS TUNER SET **SCREEN**

Perform steps 1 - 3 of "Auto Channel Set" on page 26.

ACCESS CHANNEL LIST

Press **PUSH JOG** $\triangle \nabla$ to place the pointer next to "CH EDIT", then press **OK** or **PUSH JOG** \triangleright .

SELECT POSITION

Press **PUSH JOG** $\triangle \nabla$ to place the pointer next to an open channel position, then press OK or PUSH JOG \triangleright .

SELECT BAND

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Press **PUSH JOG** riangle
abla to place the pointer next to the band of your choice, then press **OK** to initiate Manual Channel Set.

MANUAL CH SET BAND SELECT **WHF L** PLEASE WAIT VHF H VHFL 100MHZ UHF $[\blacktriangle/\forall] \rightarrow \bigcirc$ [MENU] : EXIT [MENU] : EXIT

SET DESIRED STATION

The screen to the right appears when a station is **STORE** detected. If you do not want to store the detected station ... Press **PUSH JOG** △▽ to $[\blacktriangle/\forall] \rightarrow \bigcirc \land$ [MENU] : EXIT place the pointer next to "CONTINUE", then press OK or PUSH JOG ▷. Channel search will resume. If you want to store the detected station ... Press **PUSH JOG** $\triangle \nabla$ to place the pointer next to "STORE", then press **OK** or **PUSH JOG** ▷. The Channel List appears again.

• The blueback screen and the TV picture currently being broadcast appear alternately for 8 seconds each.

CONTINUE

- If you want to store another channel, repeat steps 3-5.
- When channel search completes for that band, the Band Select screen appears again. To set channels for other bands, select another band and start Manual Channel Set again (EF step 4 and 5).
- For fine tuning adjustment, see "Fine-Tuning Channels" on page 29.

RETURN TO NORMAL SCREEN Press MENU.

28_{EN}

Delete A Channel

ACCESS TUNER SET **SCREEN**

Perform steps 1 - 3 of "Auto Channel Set" on page 26.

ACCESS CHANNEL HST

Press **PUSH JOG** $\triangle \nabla$ to place the pointer next to "CH EDIT", then press **OK** or **PUSH JOG** ▷.

SELECT CHANNEL

Press **PUSH JOG** △▽ to until the channel you want to delete begins blinking.

CH	FRQ	SYS	CH	FRQ	SYS
01	150	BG	07	229	BG
02	165	BG 🛸	08	237	BG
03	195	BG	09	355	BG
04	205	BG	10	365	BG
05	213	BG	11	374	BG
06	221	BG	12	384	BĞ
[▲/	▼] →	CANCE	EL1 : D	ELETE	
Ĩ ▲ /	▼i →	OK) : E	DÍT		I
(MENU) : EXIT					
					_

DELETE CHANNEL

Press CANCEL.

• To re-store it, simply press⊲. Repeat steps 3 – 4 as necessary.

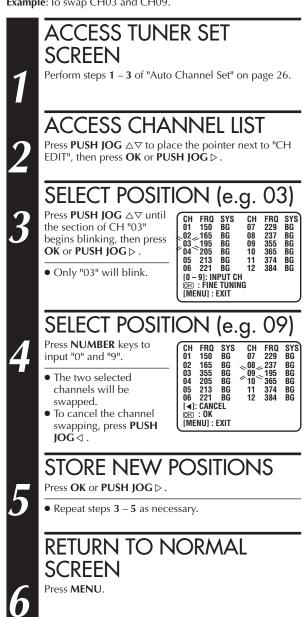
CH 01 02 03 04 05 06	FRQ 165 195 205 213 221	SYS BG BG BG BG BG	CH 07 08 09 10 11 12	FRQ 229 237 355 365 374 384	SYS BG BG BG BG BG
	▼] → :[NU]	[◀] : A EXIT	DD		

RETURN TO NORMAL SCREEN

Press MENU.

Swap Channel Positions

Example: To swap CH03 and CH09.



Fine-Tuning Channels

ACCESS TUNER SET SCREEN

Perform steps 1 - 3 of "Auto Channel Set" on page 26.

ACCESS CHANNEL LIST

Press **PUSH JOG** $\triangle \nabla$ to place the pointer next to "CH EDIT", then press **OK** or **PUSH JOG** \triangleright .

SELECT CHANNEL TO FINE-TUNE

Press **PUSH JOG** $\triangle \nabla$ until the channel you want to tune begins blinking, then press **OK** twice.

• The "FRQ" number for

that channel starts

blinking.

01	FR0	SYS	CH 07	FRQ 229	SYS BG	
02 ¹ 03	165	BG BG	08 09	237 355	BG BG	
0 4	205	BĞ	10	365	BG	
05 06	213 221	BG BG	11 12	374 384	BG BG	
		NE TU ECT SY			-	
	. SELI NU] : I		SIEW			

PERFORM TUNING

Press **PUSH JOG** $\triangle \bigtriangledown$ until the picture becomes clearer, then press **OK** or **PUSH JOG** \triangleright .

• Repeat steps 3 and 4 as necessary.

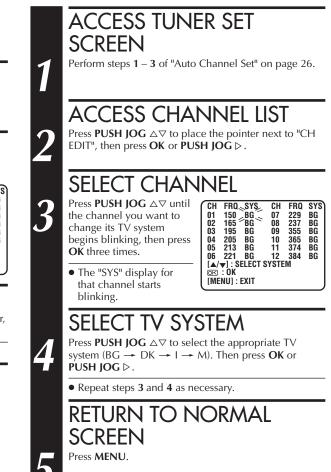
RETURN TO NORMAL SCREEN



Press MENU.

TV System Selection – When you see the picture but hear no audio

EN 2.



$30_{\rm EN}$

TROUBLESHOOTING

Before requesting service for a problem, use this chart and see if you can repair the trouble yourself. Small problems are often easily corrected, and this can save you the trouble of sending your video recorder off for repair.

POWER		
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
1. No power is applied to the recorder.	• The mains power cord is discon- nected.	Connect the mains power cord.
 The clock is functioning properly, but the recorder cannot be powered. 	 "@" is displayed on the display panel with Auto Timer set to "OFF". 	Press the TIMER button to turn the "②" indicator off.
3. The remote control won't function.	• The batteries are discharged.	Replace the dead batteries with new ones.
TAPE TRANSPORT		
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
1. The tape does not run during recording.	• """ is displayed on the display panel.	Press PLAY to turn the """ indicator off.
2. The tape will not rewind or fast- forward.	 The tape is already fully rewound or fast-forwarded. 	Check the cassette.
PLAYBACK		
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
 The playback picture does not appear while the tape is running. 	 If you're using the RF OUT connection the TV receiver's channel selector is not set to the VIDEO channel. the recorder's VIDEO channel has not been correctly set. If you're using the AV connection, the TV receiver is not set to the AV mode. 	If you are using the RF OUT connec- tion set the TV receiver to the VIDEO channel. (IF pg. 4) Perform "Video Channel Set" (IF pg. 4) If you are using the AV connection, set the TV to its AV mode.
2. Noise appears during visual search.	• This is normal.	
3. Noise appears during normal playback.	• The automatic tracking mode is engaged.	Try manual tracking. (🖙 pg. 12)
4. Noise appears during slow-motion playback.	• The automatic tracking mode is engaged.	Try manual tracking. (🖙 pg. 12)
5. Noise appears during still playback.		Press TV PROG + or – a few times to remove the noise bars from the screen.
6. The playback picture is blurred or interrupted while TV broadcasts are clear.	• The video heads may be dirty.	Consult your JVC dealer.
 Playback picture has a loss of colour. No second account of the second sec	 The wrong colour system is selected for the tape being played back. The wrong colour system was selected during recording. 	Select the correct colour system by pressing the COLOUR SYSTEM button. (() pg. 24) Once recorded, the signal cannot be corrected. Be sure to choose the correct setting before recording.
8. No sound accompanies the playback picture.	 The TV system you have selected at the TV System Select screen is incorrect. 	Set it to the correct position for the TV broadcast system used in your area. (IFP pg. 29.)

EN 31

RECORDING				
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION		
1. Recording cannot be started.	• There is no cassette loaded, or the cassette loaded has had its Record Safety tab removed.	Insert a cassette, or using adhesive tape, reseal the slot where the tab was removed.		
2. TV broadcasts cannot be recorded.	• "F-1" has been selected as the input mode.	Set to the desired channel.		
3. Tape-to-tape editing is not possible.	 The source (another video recorder, camcorder) has not been properly connected. All necessary power switches have not been turned on. The input mode is not correct. 	Confirm that the source is properly connected. Confirm that all units' power switches are turned on. Set the input mode to "F-1".		
4. Camcorder recording is not possible.	The camcorder has not been properly connected.The input mode is not correct.	Confirm that the camcorder is properly connected. Set the input mode to "F-1".		
TIMER RECORDING				
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION		
1. Timer recording won't work.	 The clock and/or the timer have been set incorrectly. The timer is not engaged.	Re-perform the clock and/or timer settings. Press TIMER and confirm that "④" is displayed on the display panel.		
2. On-screen timer programming is not possible.	• Timer recording is in progress.	Timer programming can't be performed while a timer recording is in progress. Wait until it finishes.		
3. "④" and "匝" " on the display panel won't stop blinking.	• The timer is engaged but there's no cassette loaded.	Load a cassette with the Record Safety tab intact, or cover the hole using adhesive tape.		
 The cassette is automatically ejected, and "℗" and "℗" on the display panel won't stop blinking. 	• The loaded cassette has had its Record Safety tab removed.	Remove the cassette and cover the hole with adhesive tape, or insert a cassette with the Record Safety tab intact.		
 "O" blinks for 10 seconds and the Timer mode is disengaged. 	• TIMER has been pressed when there are no programs in memory, or the timer record information has been programmed incorrectly.	Check the programmed data and re- program as necessary, then press TIMER again.		
 The cassette is automatically ejected, the power shuts off and "O" and "OO" won't stop blinking. 	• The end of the tape was reached during timer recording.	The programme may not have been recorded in its entirety. Next time make sure you have enough time on the tape to record the entire programme.		



OTHER PROBLEMS			
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION	
 Whistling or howling is heard from the TV during camcorder record- ing. 	 The camcorder's microphone is too close to the TV. The TV's volume is too high. 	Position the camcorder so its microphone is away from the TV. Turn the TV's volume down.	
2. When scanning channels, some of them are skipped over.	 Those channels have been designated to be skipped. 	If you need the skipped channels, restore them (\mathbb{IF} pg. 27).	
3. The channel cannot be changed.	• Recording is in progress.	Press PAUSE to pause the recording, change channels, then press PLAY to resume recording.	
 Channel settings that were made manually seem to have changed or disappeared. 	 After the manual settings were made, Auto Channel Set was performed. 	Perform manual setting again.	
5. No channels are stored in the recorder's memory.	 The TV aerial cable was not connected to the recorder when Auto Set Up was performed. 	Connect the TV aerial cable to the recorder properly and turn off the recorder power once, then turn the recorder power back on again. The recorder will try Auto Set Up again (IFF pg. 6).	
6. ":" is displayed on the front display panel after a power outage.	• The lithium battery is exhausted.	Replace the lithium battery with a new one. (🖙 pg. 5)	

QUESTIONS AND ANSWERS

PLAYBACK

Q. What happens if the end of the tape is reached during playback or search?	Q. W
A. The tape is automatically rewound to the beginning.	the do
Q. Can the video recorder indefinitely remain in the still mode?	A. Thi res
A. No. It stops automatically after 5 minutes to protect the heads.	Q. Ca Re
Q. During search, slow, still and frame-by-frame playback, I can't hear any audio. What's the problem?	A. No ma
A. This is normal.	Q. W A. The
 Q. When returning from multi-speed search to normal playback, the picture is disturbed. Should I be concerned about this? A. No, it is normal. 	be TIMEF
· · · · · · · · · · · · · · · · · · ·	Q. "
Q. Noise bars appear during multi-speed search. What's the problem?A. This is normal.	a p A. No pro
	Q. Ca
Q. Other than preventing further recording, what effect does removing the Record Safety tab have?A. It disables marking of index codes.	or A. You scr
Q. Sometimes, during Index Search, the video recorder	
a. There may be index codes too close together.	Q. Is i bro
· · · · · · · · · · · · · · · · · · ·	A. Yes

RECORDING

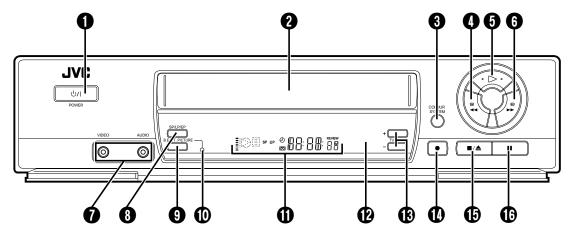
 Q. When I pause and then resume a recording, the end of the recording before the pause is overlapped by the beginning of the continuation of recording. Why does this happen? A. This is normal. It reduces distortion at the pause and resume points.
Q. Can the video recorder indefinitely remain in the Record-Pause mode?A. No. The video recorder goes to its Stop mode automatically after 5 minutes to protect the heads.
Q. What happens if the tape runs out during recording?A. The video recorder automatically rewinds it to the beginning.
TIMER RECORDING
 Q. "O" and "O" remain lit on the display panel. Is there a problem? A. No. This is a normal condition for a timer recording in progress.
a problem? A. No. This is a normal condition for a timer recording in

ATTENTION:

This recorder contains microcomputers. External electronic noise or interference could cause malfunctioning. In such cases, switch the recorder off and unplug the mains power cord. Then plug it in again and turn the recorder on. Take out the cassette. After checking the cassette, operate the unit as usual.



FRONT VIEW



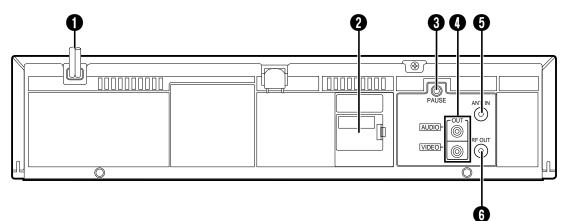
- POWER U/I Button ☞ pg. 5
- 2 Cassette Loading Slot

- Cossette Loading Stot
 COLOUR SYSTEM Button IF pg. 24
 Rewind [REW] Button IF pg. 10, 11
 PLAY Button IF pg. 10
 Fast Forward Button IF pg. 10, 11
 VIDEO/AUDIO Input Connectors IF pg. 23
 SP/LP/EP Button IF pg. 14

- B.E.S.T. PICTURE Button IF pg. 16
 B.E.S.T. PICTURE Indicator IF pg. 16
 Display Panel IF pg. 35
 Infrared Beam Receiving Window
 TV PROG +/- Buttons IF pg. 14
 RECORD Button IF pg. 14

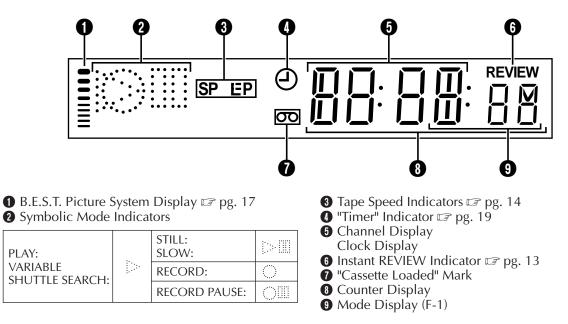
- If STOP/EJECT Button I pg. 10
 If PAUSE Button I pg. 11

REAR VIEW



- Mains Power Cord \$\vec{1}\$ pg. 3
 Lithium Battery Compartment \$\vec{1}\$ pg. 5
 Remote PAUSE Connector \$\vec{1}\$ pg. 23
- AUDIO/VIDEO OUT Connectors \$\vec{1}\$ pg. 3, 22
 ANT. IN Connector \$\vec{1}\$ pg. 3
 RF OUT Connector \$\vec{1}\$ pg. 3

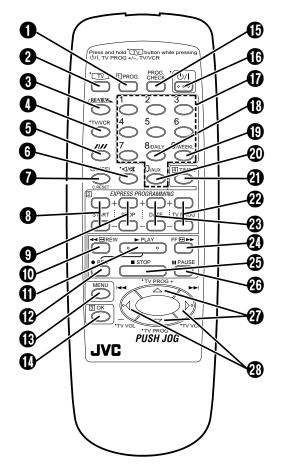
DISPLAY PANEL



36 en

INDEX (cont.)

REMOTE CONTROL



Buttons with a small dot on the left side of the name can also be used to operate your JVC TV while holding down the \mathbf{TV} button.

This remote control transmits A code signals only; it is not applicable to B code signals.

How To Use

The remote control can operate most of your video recorder's functions, as well as basic functions of JVC TV sets. (See below.) • Point the remote control toward the sensor window.

 The maximum operating distance of the remote control is about 8 m.

Operating JVC TVs

- 1 PROG. Button (🖙 pg. 18)
- 2 TV Button (See below)
- 3 REVIEW Button (☞ pg. 13)
- TV/VCR Button (See below)
- S Recording Speed [SP/LP/EP] Button (pg. 14)
- **6 √/☆** (TV Muting) Button (See below)
- CANCEL Button (III) pg. 20) Counter [C.] RESET Button (III) pg. 15)
- **8** START +/- Button (\square pg. 18)
- \bigcirc STOP +/- Button ($\square Pg. 18$)
- Rewind [REW] Button (pg. 10)
- D PLAY Button (E pg. 10)
- Precord [REC] Button (pg. 14)
- (MENU Button (pg. 8)
- OK Button (🖙 pg. 4)
- PROG. CHECK Button (🖙 pg. 20)
- POWER U/I Button (☞ pg. 5)
- NUMBER Buttons (pg. 14)
- B DAILY Timer Recording Button (1) pg. 19)
- (B) WEEKLY Timer Recording Button (IF pg. 19)
- TIMER Button (🖙 pg. 19)
- 2 TV PROG +/- Button (🖙 pg. 14, 18)
- 3 DATE +/- Button (☞ pg. 18)
- Bast-Foward [FF] Button (pg. 10)
- STOP Button (🖙 pg. 10)
- PAUSE Button (C pg. 11)
- **(2)** PUSH JOG $\triangle \nabla$ Button ($\square pg. 6$) TV PROG +/- Button (See below)
- **2** PUSH JOG I ► ► (< ▷) Button (CF pg. 11, 13)
 - TV Volume [VOL] +/- Button (See below)

NOTES:

- When inserting the batteries, be sure to insert in the correct directions as indicated under the battery cover.
- Depending on the type of JVC TV, there may be cases where some or all functions cannot be operated using the remote control.
- If the remote control doesn't work properly, remove its batteries, wait a short time, replace the batteries and then try again.

SPECIFICATIONS

Horizontal resolution

Frequency range

Input/Output



GENERAL

		1011210
Power requirement		TV chan
Rating	: AC 110 – 240 V∼, 50/60 Hz	capacity
Operating	: AC 90 – 260 V∼, 50/60 Hz	Tuning sy
Power consumption	: 18 W	Channel
Temperature		
Operating	: 5°C to 40°C	
Storage	: -20°C to 60°C	Aerial ou
Operating position	: Horizontal only	
Dimensions (WxHxD)	: 400 x 94 x 277 mm	Memory
Weight	: 3.4 kg	,
Format	: VHS standard	
Maximum recording tin	ne	
(SP)	: 240 min. with E-240 video	
	cassette (PAL/MESECAM)	ACCESSO
	: 160 min. with T-160 video	Provided
	cassette (NTSC)	TTOVIACO
(LP)	: 480 min. with E-240 video	
	cassette (PAL/MESECAM)	
(EP)	: 480 min. with T-160 video	
	cassette (NTSC)	
		*Not pro
VIDEO/AUDIO		Not pro
Signal system	: PAL-type colour signal and	
0 ,	CCIR monochrome signal,	Specificat
	625 lines 50 fields	specified.
	: NTSC colour and EIA	Design ar
	monochrome signals,	
	525 lines/60 fields	
Recording system	: DA-4 (Double Azimuth)	
0 - /	head helical scan system	
Signal-to-noise ratio	: 45 dB	

: 250 lines (PAL/MESECAM)

: 220 lines (NTSC)

: RCA connectors (IN x 1, OUT x 1)

: 70 Hz to 10,000 Hz

TUNER/TIMER

TV channel storage capacity	: 99 positions (+AUX position)
Tuning system	: Frequency synthesized tuner
Channel coverage	: VHF (Low) 42 – 175 MHz
C	(High)175 – 470 MHz
	UHF 470 – 870 MHz
Aerial output	: UHF channels (Adjustable
	E28 – E60)
Memory backup time	: Approx. 6 months
	Estimated figure based on supplied fresh battery; actual performance may differ.

ORIES

Provided accessories	: RF cable, Infrared remote control unit, "R6/UM-3" battery x 2, Lithium battery CR2025, Conversion plug*

ovided in certain areas.

ations shown are for SP mode unless otherwise nd specifications subject to change without notice.





