

Video Cassette Recorder OWNER'S MANUAL MODEL: C20Y



Before connecting, operating or adjusting this product, please read this instruction booklet carefully and completely.

Welcome to LG

Thank you for buying this LG video cassette recorder Model C20Y.

Before using your video recorder you need to be familiar with the names of some of the buttons on the remote control handset (see Operating the video recorder, pages 4 to 6), and you need to set up the video recorder so that it can receive the TV stations in your area and so that your TV set can receive pictures from it (see pages 11 to 13).

Installation POWER

This Video Recorder operates on a mains supply of 100-240V~, 50Hz.

SERVICE

Never remove the cover of the video recorder. There are no user serviceable parts inside. If it does not operate properly, unplug it and contact your dealer.

PRECAUTIONS

For safe operation and satisfactory performance of your video recorder, keep the following in mind when selecting a place for its installation.

- ☑ Shield it from direct sunlight and keep it away from sources of intense heat.
- Avoid dusty or humid places.
- ☑ Avoid places with insufficient ventilation for proper heat dissipation. Do not block the ventilation holes of the video recorder. Do not place the video recorder on the carpet because this will block the ventilation holes.
- ☑ Install the video recorder in a horizontal position only.
- Avoid locations subject to strong vibration.
- ☑ Do not place the video recorder near strong magnetic fields.
- Do not move the video recorder from a cold to a hot location or vice versa.

MOISTURE CONDENSATION

Under special conditions like moving your video recorder from a cold to a warm room, moisture condensation can build up on the head drum, one of the most crucial parts of the video recorder. In order to prevent in such case any damage to your video recorder HEAD DRUM, connect the video recorder power cord to the AC line, press the "POWER" button on and allow at least 2 hours for the video recorder to dry out.

CONDENSATION IS LIKELY TO OCCUR WHEN:

The video recorder is moved from a cold room to a warm room or from outdoors to inside your home.

- A cold room is heated quickly.
- The humidity is very high.

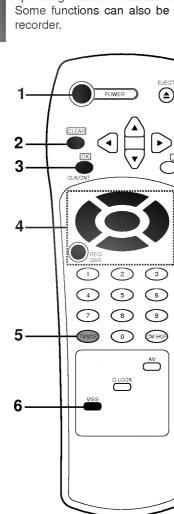
Feature & Contents

Features

- HQ (High Quality) picture enhancement system
- Full function infra-red remote control handset
- Programmable 80 channel memory with Frequency synthesized tuner
- ACMS (Automatic Channel Memory System) - the channels will be preset and memorized automatically.
- 6 event/1 month programmable timer
- PAL B/G & SECAM D/K Dual system
- Recording and playback for 16:9 Wide-screen format
- Self diagnosis function
- CM (Commercial Message) Skip function
- Fine still & Frame advance
- Fixed Slow function
- NTSC playback on PAL TV
- Quick start function
- Auto Power on and Play
- Automatic Rewind
- Auto Tracking System
- Auto Head Cleaner
- Logic Search
- VISS-VHS Index Search System
- Real Time Counter & Remaining tape volume display

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Operating the video recorder



The Remote Control Handset

This video recorder is designed so that almost all of its functions can be controlled from the REMOTE CONTROL HANDSET. This must have a "line of sight" to the sensor on the front of the video recorder. It must be within an angle of 30 degrees either side of the centre. The maximum operating distance is about 7.5m (25 feet).

Some functions can also be controlled with the controls on the FRONT PANEL of the video

POWER

To switch the video recorder on and off.

CLEAR

- To reset the tape counter to zero (see p 27).
- To clear a data (see p 25).

OK/CLK/CNT 3

- Confirms menu selection (see p 9).
- Calls the on screen display (see p 27). To switch the display on the TV screen between . the current time, the tape counter (in hours and minutes) and the remaining tape volume (see p 27).

This function will only operate when a tape is loaded.

Basic operation buttons;

- P/STILL (see p 18, 21). ٠
- REWIND/REVIEW (see p 19).
- •
- PLAY (see p 18). FAST FORWARD/CUE (see p 19).
- STOP (see p 18).
- REC/QSR (see \acute{p} 21 to 22). •

TV/VCR 5

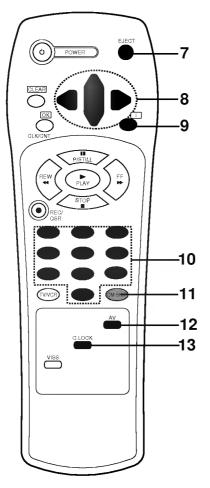
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- Set this button to;
- VCR: To monitor, view playback or view the video recorder's tuner.
- TV: To watch TV or view another programme while recording one programme.

VISS 6

To activate the VISS (VHS INDEX SEARCH SYS-TEM) (see p 30).

Operating the video recorder



EJECT BUTTON To eject a tape (see p 17).

CURSORS (▲, ▼, ◄, ►) 8 ▲▼:

- During OSD menu, for moving the cursor, selection bar up or down.
 - Switches one channel programme up or down.
- During playback, tracking control.
- During still playback, adjusting vertical tremble.
- To adjust manual fine tune for receiving normal audio and picture (see p 13).
- **< >**:
- During OSD menu, for moving the cursor to the left or right.
- 9
 - To display the on screen display (OSD) menu (see p 9).

10 Number buttons;

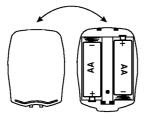
To select programme channels. To programme numeric information into On screen displays.

CM SKIP 11

To fast forward picture search through 30 seconds of recording (see p 18).

12 $_{\text{To select the input source of a recording (see p$ 21).

To turn the CHILD LOCK function on/off (see p 29).



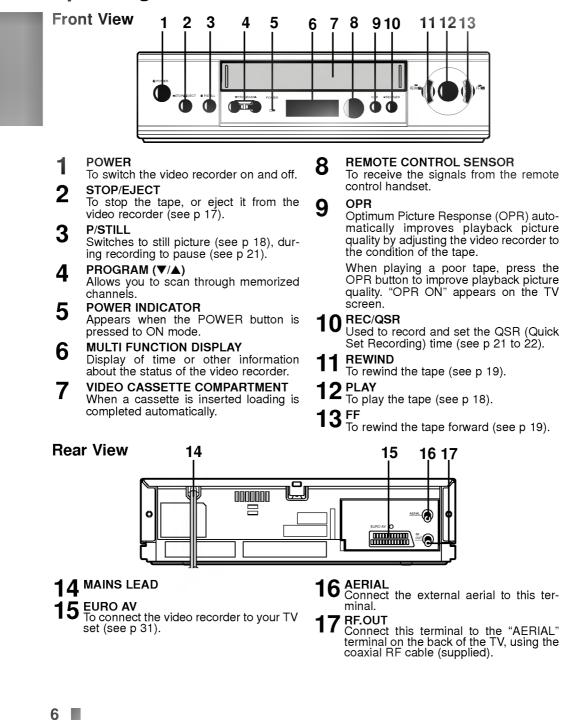
How to install batteries

The wireless remote control is powered by two "AA" size batteries.

- Remove the battery compartment lid. 1
- (Lift it up while pressing the tap forward).
- Load the new batteries with their polarities 2
 - $(\oplus \text{ and } \Theta)$ aligned properly and replace the lid.

If you do not intend to use the remote control unit for a long period of time, remove the batteries and store them in a cool, dry place.

Operating the video recorder



Installation your video recorder

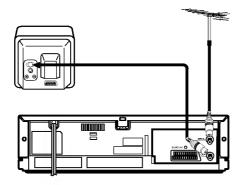
IMPORTANT!

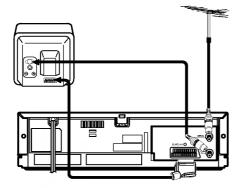
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Before you use your video recorder you must:

Connect the video recorder to your TV aerial and TV set. (described later on this page).

2 Set the tuner channels so that the video recorder can receive TV signals (see p 11 to 13). When this has been done, the setting up of the video recorder is complete.





Connecting the video recorder to your TV

AERIAL/RF CONNECTION

For TV sets without AV input terminals:

- **1** Disconnect the aerial from your TV set and plug it into the socket marked "AERIAL" at the back of the video recorder.
- 2 Use the coaxial cable supplied to connect the aerial terminal on your TV set to the socket marked "RF.OUT" at the back of the video recorder.
- **3** Plug the video recorder into a mains wall socket.

A/V CONNECTION

This video recorder and your TV set can also be connected with a EURO SCART cable. This connection ensures the highest picture/sound quality.

Setting the VCR output channel

Your TV set receives the video recorder signal like another TV station. So you have to select a programme number for the video recorder.

Take care to select this programme number, whenever you control the video recorder, or watch a recording. Only if you have selected this programme number, which we call video programme number, you will see the picture from the video recorder on the screen.

If you connect a monitor or a TV set equipped with EURO-AV Scart socket, this adjustment will not necessary. Consult the operating instructions of your TV set.

Connect the video recorder as described in the section on Connections (see on previous page).

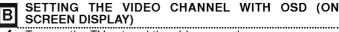
Setting the output channel of the VCR

A SETTING THE VIDEO CHANNEL WITH PLAYBACK

The output channel of the video recorder is set at UHF channel 36.

- Turn on the TV set and the video recorder.
- **2** Play any prerecorded video cassette tape on your video recorder.
- Select the correct channel (36) on your TV set.
 And then you will see the picture being played in video recorder.
 (Note You will need to look at the instruction manual for

your TV set if you do not know how to do this.)



Turn on the TV set and the video recorder.

- **2** Repeat above No. 3. And then you will see a blue background picture on the TV screen.
- **3** Store this channel in an unused programme number on your TV set.

Changing the transmitter channel

If the channel 36 is already occupied at your TV set, or if the picture is distorted, you can change the transmitter channel of the video recorder.

- **1** Select an unoccupied channel between 22 and 68 on your TV set.
- 2 During power off mode (only clock display) hold down the PROGRAM "▼" and "▲" buttons on the VCR for more than 4 seconds.
 - Then, "CH 36" will be displayed on the VCR's display.
- **3** Press the PROGRAM "▼" or "▲" buttons on the VCR to select another video channel eg. between channels 22 and 68, until the test pattern shown the left is received.
- Press the "POWER" button when you have finished.

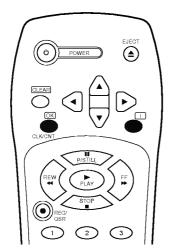




Initial preset

For the following steps we do assume that you have just connected your video recorder for the very first time. In this case the video recorder is on after mains connection. You should not touch any buttons yet. On the connected TV you will now see.

Note - If this menu does not appear, your video recorder was programmed already. TV STATION



- Press the "OK" button to start the pre-1 set.
- Wait some minutes, until all stations 2 are searched, sorted and the first one is shown on the screen. You might want to make manual changes to the order or delete double received stations (see p 14 to 15).
- Press the "i" button to remove the 3 menus from the TV screen.

On Screen Displays

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A number of the features of this video recorder can be set and altered using the handset with On Screen Displays (menus) on the TV screen.

The Main menu

- Turn on your TV set and video recorder by pressing the "POWER" button. 1
- Press the "i" button to display the Main 2 menu.
 - Press the cursor "▲" and "▼" buttons to select the desired menu and press the "OK" button.

TIMER PROGRAMME

Used to record a programme with the timer (see p 23 to 24).

TV STATION TABLE

Used to view stored TV stations or to set TV station information manually (see p 12 to 13).

CLOCK SET

To set the clock manually (see p 16).

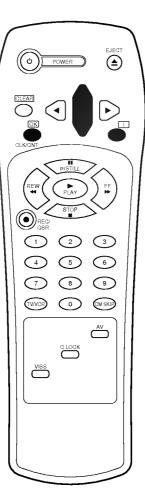


CH MFT STATION C03 +05 Pr-01

PR 01

On Screen Displays

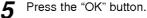
PREPARATION



The Set-up menu

Press the cursor "▲" and "▼" buttons to select the "Set-up" menu. 4







Press the cursor "▲" and "▼" buttons to 6 select the desired menu. Then, you set desired mode by press-ing the"OK" button repeatedly.

SYSTEM (AUTO, PAL and MESE-• CAM)

Select the colour system used for playback and recording (see p 20). 16:9

To select the aspect ratio of your TV.

"OFF":

for recording and playback with a normal format (4:3).

"AUTO":

for playing back wide-screen programmes as wide, normal pro-grammes as normal (see p 29). "ON":

for recording and playback with a 16:9 Wide-screen format recording.

OSD (On Screen Display) Switches the on screen display OFF or ON (see p 27).

- **RF AUDIO (D/K and B/G)** Select the channel of audio output according to your TV type. "D/K": for PAL D/K TV. "B/G": for PAL B/G TV.
- After using the menus press the "i" button to remove menus from the TV screen.

Up to 80 TV stations (80 channels) can be stored in the memory of this video recorder. These can be set automatically or manually.

Automatic tuning

To carry out Automatic tuning:

- **1** Turn on the TV and the video recorder (with the "POWER" button).
- Press the "i" button on the video recorder handset. The menu will appear on the TV screen.
- **3** Use the cursor "▲" and "▼" buttons to select "TV STATION".
- **4** Press the "OK" button and select the "CHANNEL SEARCH" by pressing the cursor "▲" and "▼" buttons.
- **5** Press the "OK" button to start the automatic storing of the channels of the TV stations in your area.
- **6** Automatic channel tuning has been completed when the "TV STATION TABLE" menu appears on the TV screen.
- **7** Press the "i" button to remove the menus from the TV screen.



TIMER PROGRAMME

TIMER PROGRAMME

TV STATION

CLOCK SET

TV STATION

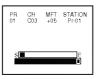
CLOCK SET

SET - UP

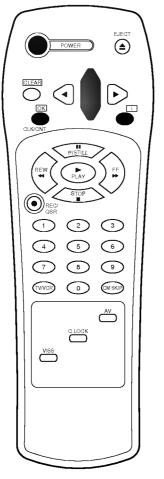
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Manual tuning

TV station and station names can be stored manually.

To carry out manual tuning:

- Press the "i" button on the video recorder handset. The menu will 1 appear on the TV screen.
- Use the cursor "▼" button to select 2 "TV STATION".
- 3 Press the "OK" button.
- Use the cursor "▼" button to select "TV STATION TABLE" and press the 4 "OK" button.
- Use the cursor " \blacktriangle " and " \blacktriangledown " buttons to 5 search the programme number that you want to tune and press the "OK" button.
- Press the "AV" button to select the type of TV channels. 6
 - "C" for standard channels C01-
 - Grand Construction of the second se
- Enter the channel number that you 7 wish to enter the station with number buttons or cursor "▲" or "▼" buttons.
 - If you want to resume a station, hold down cursor "▲" or "▼" until "- - -" mark appears. Then the station search will be started.
 - If you want to stop the station search, press the "OK" button.







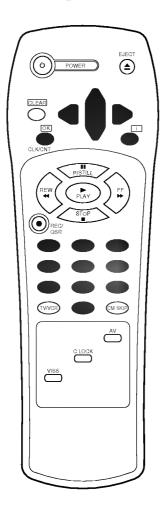








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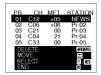


Control the fine tuning of the station by pressing the cursor " \blacktriangle " and " \blacktriangledown " buttons.

9 Use "►" button to select "STATION".

10 Press the use "OK" button to input the station name manually.

- Enter the first letter of the station name by repeatedly pressing the cursor "▲" and "♥" buttons.
 Now move the cursor with the "▶"
- Now move the cursor with the "▶" to the next position and write in the next letter of the station name.
- For corrections move back and forth with the "◄" and "▶" buttons.
- When you have the station name as required press the "OK" button and "i" button. The "TV STATION TABLE" menu will be displayed. Store other stations, missing or 2 to 10.
- **11** End the station storing by pressing the "i" button.



PR CH MET STATION 01 C12 105

PR CH MFT STATION 01 C12 +05

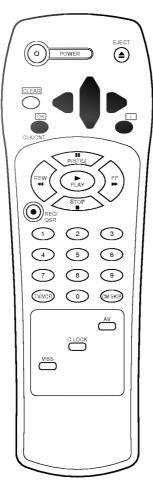
PR CH MFT STATION 01 C12 +05 N

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Changing the programme order of the "TV station table" menu

If you want to move the order of the TV stations you can easily do so as follows:

- **1** Press the "**i**" button on the video recorder handset. The menu will appear on the TV screen.
- 2 Select "TV STATION" with the cursor "▲" and "▼" buttons and press the "OK" button.
- 3 Select "TV STATION TABLE" with the cursor "▲" and "▼" buttons and press the "OK" button.
- 4 Move the cursor down or up with the cursor "▲" and "▼" buttons to select the programme that you want to move to another position in the menu (for example "Pr No. 03").
- **5** Press the "◄" and "▶" buttons to select move.
- **6** Move the cursor to place the cursor line at the position where to insert the selected programme (example Pr 04).
- 7 Press the "OK" button. The selected station will be moved to the new programme number.
- **8** Move other stations, if you wish, by repeating steps 3 to 7.
- **9** Press the "i" button to remove the menus from the TV screen.



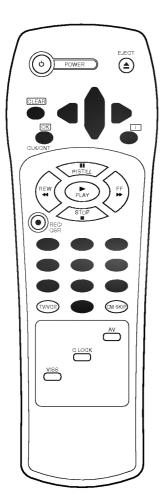












Clearing stations from the **"TV STATION TABLE" menu**

If you want to clear a TV station from the video recorder's store you can easily do so as follows:

- Press the "i" button on the video 1 recorder handset. The Main menu will appear on the TV screen.
- Select "TV STATION" with the cursor 2 "▲" and "▼" buttons.
- 3 Press the "OK" button.
- Select "TV STATION TABLE" with the 1 cursor "▲" and "▼" buttons and press the "OK" button.
- Move the cursor down or up with the 5 cursor "▲" and "▼" button to select the programme that you want to clear (for example Pr No. 04).
- Press the "CLEAR" button to delete. 6 After a short while, the selected station will be cleared.
- Clear other stations, if you wish, by repeating steps 5 and 6.
- Press the "i" button to remove the 8 menus from the TV screen.

SELECTING STORED TV STATIONS Stored TV stations can be selected in either of two ways.

- Use the "▲" and "▼" buttons to move 1 from one station to another.
- Enter the programme number with the 2 number buttons, to select a station directly. You can enter the stations 1 to 9 with the one digit only.













Time and date setting

PREPARATION



Setting the video recorder's clock

To manually alter the clock:

- **1** Press the "i" button. The Main menu appears on the TV screen.
- 2 Select "CLOCK SET" with the cursor "▲" and "▼" buttons.



3 Press the "OK" button.

4 Use the number buttons or cursor "▲" and "▼" buttons alter the Hours, Minutes, Day, Month and Year (using the 24 hour clock).

The day of the week will appear automatically when you have entered the date.

- Correct errors during inputting with cursor "◄" and "▶" buttons.
- **5** Press the "i" button to remove the menus from the TV screen.

The set time will appear on the video recorder's Display.



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Using the VCR to play back a tape

Note - Loading and unloading of a video cassette is only possible when the video recorder is plugged into a power source.

Loading & Unloading a video cassette





Insert the cassette into the video recorder with the window 1 side up and the arrow pointing away from you. Do not attempt to insert a cassette which is upside down or back to front.

Gently press the middle of the tape.

Press the "EJECT" button, on either the handset or the front panel of the video recorder. 2

The cassette compartment will open and the video cas-

"EJECT" will appear for a few seconds on the TV screen. It is not necessary to switch on the video recorder, by press-ing the "POWER" button before ejecting a video cassette.

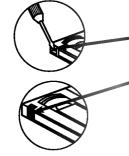
Note - It is advisable to remove a video cassette from the video recorder when not in use. Rewind and unload it.

Types of video cassette

Use VHS tapes in this video recorder.

On SP (standard play) the maximum record and playback time is that given on the video cassette.

For example E-180 will record/play back for 180 minutes. For example T-120 will play back for 120 minutes.



- Accidental erasure prevention If you do not wish to record on a tape, and hence erase what is already recorded on it, then remove the safety tab on the back edge of the video cassette.
- *Cover the hole with cellophane tape -* It is possible to record on a video cassette from which the safety tab has been removed by covering the hole with cellophane tape.

Refer to the instructions included with the video cassette for more information.

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Using the VCR to play back a tape



Normal playback

1 Press the "PLAY" button to start playing a tape (called Normal playback). "PLAY" will appear for a few seconds on the TV screen.

Automatic tracking - The video recorder will automatically adjust the tracking to give the best quality picture. A.TR will appear on the video recorder's display while it is doing this.

Automatic playback - If the video cassette has had its safety tab removed, so that it cannot be erased, then the video recorder will automatically start playing the tape.

- 2 Short interruptions of the playback up to 5 minutes can be made with the "P/STILL" button. Continue playback by pressing the "PLAY" button.
- 2 End the playback with STOP button.
 - If the end of the tape is reached, the video recorder stops automatically, rewinds, stops, ejects the tape and switched off.

Still picture playback

You can playback and advance a still picture as follows:

- **1** Press the "P/STILL" button during playing back. You see a still picture on the TV screen.
- 2 You can remove the vertical tremble with the cursor "▲" and "▼" buttons.
- **3** You can advance the still picture by pressing the "P/STILL" button. By repeatedly pressing this button the picture advances one frame at a time.

If during still picture playback you hold down the"P/STILL" button for more than 1 second, the picture will be changed to slow motion.

4 To switch off the still picture, press the "PLAY", or the "STOP" buttons.

Note - During Slow or Still playback, the noise bars can be appeared on the picture according to status of tape (especially NTSC recorded tape). In these cases adjust the tracking to playback a tape with the optimum picture quality. You can adjust the tracking with the cursor " \blacktriangle " and " \blacktriangledown " buttons.

CM (Commercial Message) Skip

(While in play mode) Pressing "CM SKIP" button on the remote control skips commercials or other programme material.

Pressing 1, 2, 3, or 4 times skips 30, 60, 90, or 120 seconds, respectively. CM SKIP skips at full 120 seconds of commercials in a few seconds, then resumes normal playback.

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PLAYBACK

Other playback features



This video recorder will allow you to rapidly wind a tape forwards or backwards, search a cassette tape, view individual frames on a tape.

Fast forward (FF)

Pressing the fast forward ("FF") button with the tape on stop, will rapidly wind the tape forward. "FF" will appear for a few seconds on the TV screen.

Rewind (REW)

Pressing the rewind ("REW") button with the tape on stop, will rapidly wind the tape backwards. "REW" will appear for a few seconds on the TV screen.

LOGIC search

If you hold down either of the search buttons ("FF" or "REW") during fast forwarding or rewinding the tape, the picture will be seen at about 9 times (NTSC recorded tape: 7 times) the normal playback speed. This enables you to see where you are on the tape. When you release the button the video recorder continues fast forward or rewind.

Picture search - CUE & REVIEW

You can also quickly carry out a visual search for a desired section on a tape using the CUE and REVIEW functions.

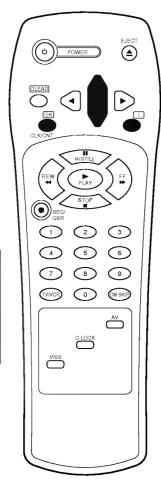
During playing back press either the fast forward ("FF") or rewind ("REW") button.

The tape will be played forward or backwards at about 9 times (NTSC recorded tape: 7 times) the normal playback speed. When the desired point on the tape has been reached press the "PLAY" button and the video recorder will continue to play back the tape at the normal speed.

Picture search will only continue for about 3 minutes, after which the video recorder will return to normal playback mode.

Note - During a visual search or still playback, the sound is muted and there will be some "noise streaks" on the TV screen.

Other playback features



Selection of the colour system

Because your video recorder is equipped with dual colour standard, you can playback recordings in PAL B/G and SECAM D/K. During playback your video recorder detects the recorded colour system automatically. Only if there are colour problems with very weak recordings, you should select the colour system manually:

- **1** Press the "i" button to display the Main menu.
- 2 Press the cursor "▲" and "▼" buttons to select the "SET-UP" menu and press the "OK" button.





3 Use the "OK" button to switch among;

"AUTO": automatic colour selection, "PAL": PAL recordings "MESECAM": MESECAM recordings

- Press the "i" button to remove the
- **4** Press the "i" button to remove the menus from the TV screen.

Using the VCR to record

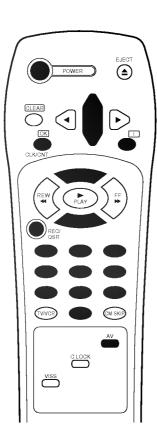
Introduction to the recording features

There are a variety of recording modes available to you on this video recorder.

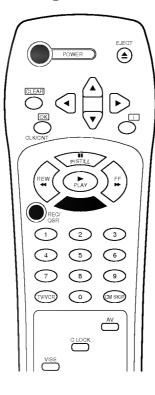
- 1 You may record immediately by turning the video recorder
- both on and off (see below).
- 2 You may record immediately for a set period of time of up to 9 hours. This is called Quick Set Recording (QSR). The video recorder will automatically turn itself off at the end of the QSR (see p 22).
- **3** You may record at a later time (up to 1 month from the present) using the built-in timer. Up to 6 of these automatic recordings may be set at the same time provided, of course, that there is sufficient time on the video cassette.
- **Note** Ensure that the safety tab has not been removed from the video cassette on which you wish to record.

To record

- **1** Turn on the TV set and video recorder.
- Insert a video cassette with the window side up, and the arrow pointing away from you, or if a video cassette is already loaded turn on the video recorder by pressing the "POWER" button.
- 3 Select the programme channel with the number buttons or cursor "▲" and "▼" buttons.
- Note If you want to record from the EURO SCART socket on the back of the video recorder, press the "AV" button to "AV" mode.
- Press the "REC/QSR" button to start recording.
 "RECORD" will appear for a few seconds on the TV screen.
 "VISS MARK" will appear on the TV screen. The recording is being marked by the VISS (VHS Index Search System) function. This will enable you to quickly find the recording at a later date.
- 5 If you want to avoid recording unwanted scenes press the "P/STILL" button. "RECP" will appear for a few seconds on the TV screen. To continue recording press the "P/STILL" button again.
- **6** Press the "STOP" button to stop recording. "STOP" will appear for a few seconds on the TV screen.



Using the VCR to record



RECORDING ONE TV PROGRAMME WHILE WATCHING ANOTHER

You can record one programme while watching another by selecting the channel you watch on your TV set.

- **1** Start a recording by following steps 1 to 4 on previous page.
- **2** Select the TV station you want to watch with the programme channel selector on your TV set.

Immediate timer (QSR)

When making a recording you can set your video recorder to stop after a set period of time.

- **1** Press the "REC/QSR" button to start a recording.
- Press the "REC/QSR" button several times until the desired recording time is shown on the video recorder's Display.

Each time you press this button the QSR time will be extended by 30 minutes. The maximum time that can be set is 9 hours.

When the QSR recording have been completed, the video recorder will stop and switch itself off.

3 To cancel a QSR recording, press the "STOP" or the "POWER" button.

Programming the VCR timer

CM SKIP

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POWER

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Recorder timer programming using the On Screen Displays

The timer allows you to record broadcasts automatically. Up to 6 recordings within one month can be programmed at the same time.

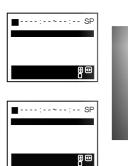
- **1** Press the "i" button. The Main menu appears on the TV screen.
 - If you try to set the programme timer before setting the clock, "PLEASE SET THE CLOCK FIRST!" appears. Press the "OK" button and then CLOCK menu appears on the TV screen. Set the date and time before proceeding.
- 2 Select "TIMER PROGRAMME" with the cursor "▲" and "▼" buttons and press the "OK" button.
 - If all programmes have already been entered, "PROGRAM FULL" message will appear.
- 3 Select the empty programme number with the cursor "▲" and "▼" buttons and press the "OK" button.
- **4** Select the programme number that you wish to record using the number buttons.

Programme number and dates 1 must be entered as 01, 2 as 02 etc.

- If you want to record from the EURO SCART socket on the back of the video recorder, press the "AV" button to "AV" mode.
- **5** Enter the day using the number buttons.

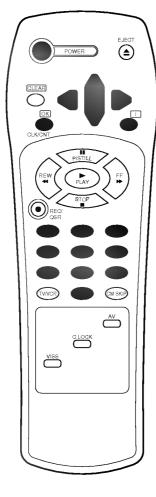


ÆC.	TIMER PROGRAM	1ME
	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	
	BIEAR DK	ο





Programming the VCR timer



6 If you want to change recording type (Daily or Weekly), press "OK" button before entering the day. Now you press the cursor "▲" and "▼" buttons to select recording type and select it with "OK" button.

WEEKLY EVENT:

For recording up to 6 programmes on a certain day of every week (from Sunday to Saturday).

DAILY EVENT:

For recording up to 6 programmes which are broadcast at the same time from Monday to Friday.

- **7** Enter the start and end times using the number buttons.
 - For setting programme times you must use the 24 hour clock.
 - Errors can be corrected with the "◄" and "▶" buttons.

8 Finish your timer inputs with the "i" button.

A menu of the timer programmes set into the video recorder will be displayed on the TV screen.

- If "PLEASE CORRECT THE DATA !" is displayed, you have entered a wrong data. Please correct the data.
- **9** Press the "i" button to remove the menus from the TV screen.
- **10** Make sure that there is a video cassette in the video recorder and turn the video recorder off with the "POWER" button.

The timer set \square symbol is shown on the video recorder.





ास्त्री	TI	MER PROGRAMME
Pr-01	28	13:30~14:30_SP_
		: SP
	• •	SP
		: ~: SP
		: ~: SP
		: ~: SP
DEL	ETE	:≫nn=za≊i :⊠:,∞a/END:⊡

RECORDING

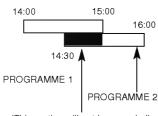
Programming the VCR timer

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Checking and clearing stored timer programmes.

The stored timer programmes can easily be viewed on the TV screen, and can also be cleared if not wanted.

- Press the "i" button. The Main menu appears on the screen.
- 2 Select "TIMER PROGRAMME" with the cursor "▲" and "▼" buttons and press "OK" button. The timer programmes list will be displayed on the TV screen.
- 3 If you wish clear any of the programmes on the list, select it with the cursor "▲" and "▼" buttons, and press the "CLEAR" button to clear.
- If you wish change any of the data for any of the programmes on the list, select it with the cursor "▲" and "▼" buttons, and press the "OK" button. The timer menu will be displayed. Change the data as described on previous page.
- **5** Press the "i" button twice to remove the menus from the TV screen.



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C.LOCK

TWVCR

(3)

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CM SKIP

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(This portion will not be recorded)

Overlapping timer programmes

When timer programmes overlap, the programme which is already recording continues to its scheduled end time. Hence the beginning of the second programme will not be recorded.

Note - If you wish to stop a timer recording which has already started, press the "POWER" button.



REC.	ΤI	MER PROGRAMM	1E
Pr-01	28	13:30~14:30 SP	
		SP	
	1	SP	
		SP	
		SLEAR	
		🔁 🗵 🛛	



Introduction

This video recorder has a number of other features which make it easier and more convenient to use. Some of these are described in this section of the manual. Later sections describe the connection of the video recorder to other equipment, and features relating on the video recorder.

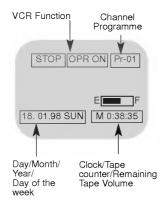
The features described here are:

- **1** The On Screen Display of the time or remaining tape volume or tape counter, date, programme channel and operation mode of the video recorder.
- **2** The Digital Tape Counter and Remaining Tape Volume indicator.
- **3** The Memory Stop facility that can be used during rewind to stop the tape at a preset point.
- **4** The tracking control that optimizes the picture quality.
- **5** The Automatic Playback facility which plays back a tape, rewinds and ejects it and switches off the video recorder.
- **6** Automatic Memory Power Shut Off when a video cassette is rewound.
- **7** Automatic Switch Off when the TV station stops broadcasting.
- **8** The 16:9 wide-screen recording and playback.
- **9** Self-diagnosis.

10 A Child Lock facility so that the video recorder can be controlled only from the handset.

11 The VISS (VHS Index Search System) to help you find the beginning of each recording on a video tape easily and quickly.

ADDITIONAL INFORMATION





ON SCREEN DISPLAY OF THE TIME OR TAPE COUNTER, REMAINING TAPE VOLUME, DATE, PROGRAMME CHAN-NEL AND OPERATION MODE OF THE VIDEO RECORDER.

When the "OK" button is pressed, a display occurs on the TV screen of the current time or the tape counter and the remaining tape volume, the date, year and day of the week, the programme channel and the operation mode of the video recorder.

The tape counter and the volume of the tape remaining appear only while a tape is loaded. After two seconds the clock display or the tape counter and the volume of tape remaining will only remain. If you press the "OK" once again within two seconds the clock display changes to the tape counter and the volume of the tape remaining or vice versa. Press the "OK" button again to remove the display from the TV screen.

Note - If a recording is taking place these On Screen displays will not be recorded onto the tape.

Digital Tape Counter/Remaining Tape Volume

The Digital Tape Counter and Remaining Tape Volume can be displayed on the TV screen instead of the time by repeatedly pressing the "OK/CLK/CNT" button.

pressing the "OK/CLK/CNT" button. The Digital Tape Counter gives you the relative positions of recordings on the tape. If you set the counter to 0:00:00 at the beginning of a tape, you can note the counter reading at the

beginning of each separate recording. To set the counter to M 0:00:00 press the "CLEAR" button.

The memory stop facility

Memory Stop automatically stops a tape when the tape counter is 0:00:00. This feature may be used to return the tape to a preselected position immediately after making a recording, or to repeatedly playback a portion of a tape.

- **1** Press the "OK/CLK/CNT" button to set the display to the counter.
- **2** Before playback or recording, press the "CLEAR" button. The counter will read M 0:00:00.
- 2 Begin the playback or recording.
- The tape counter gives the actual time in hours, minutes and seconds.
- **4** Press the "STOP" button when playback or recording is completed.
- **5** Press the "REW" button. The tape will rewind and automatically stop when the counter returns to M 0:00:00.



Tracking Controls

Tracking distortions show up as streaks or an unstable picture. This video recorder can set the tracking automatically. You can also set the tracking manually if you need to do so.

AUTOMATIC TRACKING - The automatic tracking adjusts the tracking to playback a tape with the optimum picture quality. As soon as you start to playback a tape the tracking will be adjusted if necessary.

A.TR is shown on the video recorder's display.

MANUAL TRACKING - If the quality of the recording is poor, or if the tapes are damaged, the automatic tracking will not be able to work correctly. In these cases you will have to remove tracking distortions manually.

You can adjust the tracking during playback with the cursor " \blacktriangle " and " \blacktriangledown " buttons. Press them repeatedly until the distortions have been eliminated. When you change a video cassette, the automatic tracking will always be switched on again.

Automatic Playback

Automatic Playback is a very convenient automatic action of this video recorder. It occurs whenever you insert into the video recorder a video cassette from which the safety tab has been removed (e.g. a video cassette which you have hired).

Automatic Playback carries out the following procedures:

It automatically switches on the video recorder's power and starts to playback the tape.

At the end of the tape, it automatically rewinds.

The tape is ejected automatically.

The video recorder switches itself off.

Automatic Memory Power Shut-Off

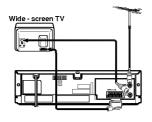
This feature of the video recorder enables you to initiate switching off the video recorder during tape rewind. Hence you do not have to wait until a tape has rewound before you can switch the video recorder off.

To activate Automatic Memory Power Shut Off press the "POWER" button during tape rewind. The tape will rewind to the beginning and the video recorder with switch itself off.

Pressing any of the control buttons (e.g. "POWER" or "PLAY") after setting Automatic Memory Power Shut Off will cancel it.

Automatic Switch Off

The video recorder will turn itself off after 8 minutes when not receiving a TV signal. This will occur when TV broadcasts have finished.



16:9 Compatibility (Wide - screen TV)

This video recorder can be recorded and played back the 16:9 wide aspect ratio programmes.

Select the required position in the "SET-UP" menu as described on page 10:

To record in a wide-screen format, you have to set to "16:9 ON", or if you set to "16:9 OFF" the video recorder will be recorded in normal format.

When you set to "16:9 AUTO", the video recorder will be automatically played back the wide-screen programmes as wide, the normal programmes as normal.

NOTE:

When the picture disappears on the TV screen while playing back a 16:9 programme or recording in 16:9 format, set the TV to "AV" mode.

Self-Diagnosis

This function informs you of an error messages for solving the problems more easily.

These error messages will be shown on the video recorder's display or on the TV screen.

STATUS OF DISPLAY	SOLUTION
Please check antenna connection!	Connect the video recorder to your TV aerial and TV set.
Dust on the heads!	Try to clean the video head.

The Child Lock

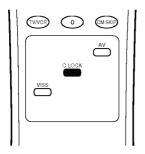
The control buttons on the front of the video recorder are inoperative. The video recorder can be controlled only from the handset.

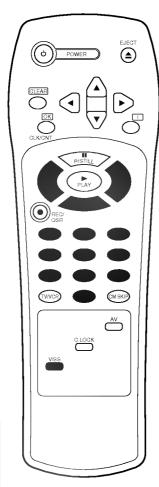
1 Press the "C.LOCK" button. " 🔄 " appears on the video recorder's Display.

The control buttons on the front of the video recorder are inoperative (except for "STOP/EJECT"). The video recorder can be controlled only from the handset. If any of the other controls on the video recorder are pressed " I lickers on the video recorder's Display.

2 To switch off the locking, press the "C.LOCK" button again. " I disappears on the video recorder's Display.







The VHS Index Search System (VISS)

VISS allows you to find the beginning of each recording on a tape easily and quickly. The video recorder automatically puts an index mark on the tape whenever you start a recording, and the VISS searches for these index marks.

AUTOMATIC VISS MARKING

At the beginning of each recording, a VISS mark is recorded automatically on the tape. This is indicated by VISS MARK appears on the TV screen.

VISS SCANNING

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A VISS scan gives you a quick overview of the recordings on the video cassette.

To carry out a VISS scan:

- Insert the video cassette.
- **2** Whilst the video recorder is on stop or playback press the "VISS" button.
- **3** Press the "FF" or "REW" button to fast forward or rewind the tape. "VISS" is shown on the video recorder's display.
- **4** The tape winds on to the next VISS mark, switches to playback for a short time, so that you can view the tape at that point, and then winds on to the next VISS mark.
- **5** You can switch off the VISS scan at any time by pressing the "VISS" button or "STOP" button.

VISS SEARCHING

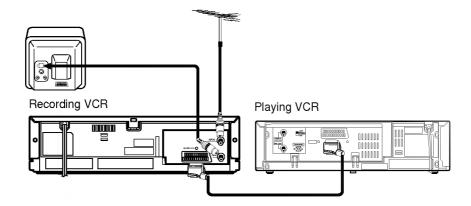
A VISS search is very similar to a VISS scan. Here you enter the desired mark with the number buttons. For example, if you want to find the fifth mark after (on fast forward) or before (on rewind) the present tape position, you enter 05. The VISS marks are not numbered, but the video recorder counts the marks during the winding and will switch to playback as soon as the entered number is reached.

To carry out a VISS search:

- 1 Insert the video cassette.
- **2** Whilst the video recorder is on stop or playback press the "VISS" button.
- **3** Use the number buttons to enter the number at which mark the playback is to start.
- **4** Press the "FF" or "REW" button to fast forward or rewind the tape.
- **5** The tape winds on to the requested VISS mark, and the video recorder switches to playback.

ADDITIONAL INFORMATION





With this video recorder you can make recordings from an external source, such as copying from another video recorder or camcorder.

To do this you will need a EURO SCART cable (AV cable).

- **1** A second video recorder (for tape copying) should be connected to the EURO scart socket on the back.
- **2** Insert an empty cassette into this video recorder and if you are copying another tape insert it into the second videorecorder.
- **3** Set the "AV" mode for recording video recorder with the "AV" button on the remote control.
- 4 Start the playback at the playing video recorder and then start the record with the "REC/QSR" button on the remote control or at the video recorder.
- **5** Short interruptions can be made with the "P/STILL" button on the video recorder, e.g. to cut scenes. To continue recording, press this button again.
- 6 End copying with the "STOP" button and turn all devices off.



Specifications

General

Power Power consumption Video Head system Tape speed Tape format

Maximum recording time

Rewind time

Dimensions (W X H X D)

Weight Operating temperature Operating humidity Timer

Video

Television system

Recording format RF reception RF OUT Input level

Output level

Signal to noise ratio RF modulator

Audio

Input level

Output level

Audio track Audio frequency response Audio signal to noise ratio

9.0 lbs. (4.1 kg) 41°F-95°F (5°C-35°C) : Less than 80 % : 24 hours display type : CCIR standard (625 lines, 50 fields) PAL/SECAM colour signal PĂL/MESECAM PAL B/G, SECAM D/K PAL G VIDEO IN (SCART type) 1.0 Vp-p, 75 ohm, unbalanced

: 100-240V~, 50Hz.

ning system

:

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Approx. 16 watts Rotary 2 heads helical scan-

23.39 mm/sec (SP mode) Tape width 1/2" (12.7 mm

: Approx. 150 sec. (with E-180

high density VHS tape)

4 hours in SP mode

(with E-240 tape)

tape) : 14.2" X 3.5" X 10.6"

(360 X 90 X 270 mm)

- : VIDEO OUT (SCART type) 1.0 Vp-p, 75 ohm, unbalunbalanced
- : More than 43 dBm
- : UHF channels 22-68 (Adjustable)
- : AUDIO IN (SCART type) 0 dBm, more than 10 kΩ : AUDIO OUT (SCART type) 0 dBm, less than 1 k Ω

 - Mono track
 - : 100 Hz-10 kHz (-6/+3 dBm)
 - : More than 43 dBm
- Design and specifications are subject to change without notice.

ADDITIONAL INFORMATION

Before calling for service...

Please check to see if any problem which you may have with your video recorder is described here before taking it for service or calling a service engineer.

Problem	Possible solution?
No mains power to the VCR	☑ Is the video recorder plugged into the mains? ☑ Is the mains supply on and switched on?
TV programmes cannot be	
recorded	☑ Can you get a picture on the TV screen?
	If are not the aerial and RF lead connected?
	☐ Are the TV channels properly tuned in?
	☑ Has the safety tab been removed from the video cassette to prevent recording?
A timer recording does not take place	☑ Is POWER off? (Is the Timer
	☑ Were the recording start and end times set cor- rectly?
	☑ Are the timer settings in the timer menu?
	Was the power interrupted after setting the timer?
	If so the time setting will be erased and timer
	recordings will not take place.
AUTO PLAY does not work	☑ Has the safety tab been removed from the video cassette?
There is no picture on playback, or it is	☐ Are the TV channels properly tuned in?
noisy and streaky	☑ Try another video cassette.
	☑ Can you minimise the noise bars to an accept- able level with the "▲" and "▼" buttons?
The top of the playback picture is	☑ Is the video cassette damaged?
unstable	Try another one.
	Adjust the horizontal hold control on you TV set.
Video cassettes cannot be inserted	☑ Is the cassette compartment empty?
	Are you trying to insert the cassette the right way round?

Video Head Cleaning

- Whenever a video cassette is inserted into or ejected from this video recorder the video head is automatically cleaned.
- Therefore additional head cleaning should not be necessary. However dirt accumulating on the head after a long period can cause the playback picture to become blurred or broken up.
- High quality video cassette tapes will not normally deposit dirt onto the video head, but old or damaged tapes might.



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