

**Video Cassette Recorder** 

**OWNER'S MANUAL** 

MODEL: AC470Y/AC270Y



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

# & features **Precaution**

Information



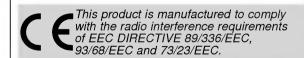
Position your VCR so that no bright light or sunlight falls directly onto it.

Care should be taken not to expose your VCR to any unnecessary vibration, moisture, dust or heat.

During electrical storms it is advisable to unplug both the aerial cable and mains plug to prevent accidental damage to your VCR and TV.

Do not operate your VCR if it is damaged. Your VCR should not be repaired by anyone except qualified service personnel.

Never remove the back cover of your VCR as this can expose you to very high voltage and other hazards. If your VCR does not operate properly, please check the Troubleshooting Check List (see p.30). If your VCR still does not operate properly, unplug it and call your dealer.



Just to name a few examples of the extraordinary features:

- HQ (High Quality)picture enhancement system
- Programmable 80 channel memory with Frequency synthesised tuner
- ACMS (Automatic **Channel Memory** System)
- •7 event/1 month programmable timer
- Recording and playback for 16:9 Wide-screen format
- •LP Long Play recording & playback
- Shuttle Controls (AC470Y)
- Energy Saving function

- •ICON OSD (On Screen Display)
- NTSC playback on PAL TV
- Logic & Picture Search
- Child Lock
- Auto Head Cleaner
- Auto Power on and Play
- Fine still, Frame advance & Fixed Slow functions (AC470Y)
- Real Time Counter
- Quick Start function
- Auto Tracking System



# Welcome to LG

Thank you for buying this LG video cassette recorder Model AC470Y/AC270Y.

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# Remote Control Location & functions

## To install batteries:

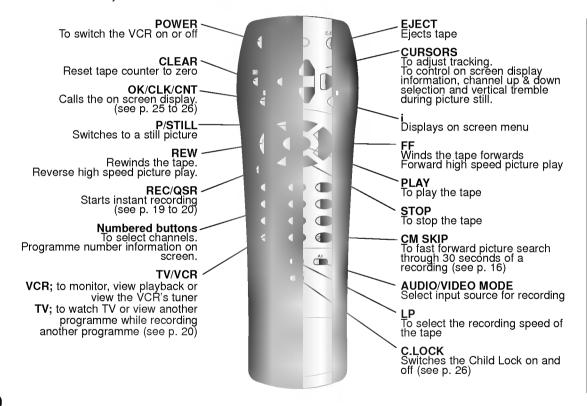
Your REMOTE CONTROL HANDSET is powered by two **AA** type batteries.

- To insert them, push the tab backwards and lift off the cover of the handset.
- 2. Put the two batteries into the compartment making sure the + and are correctly positioned.
- **3.** Replace the cover.

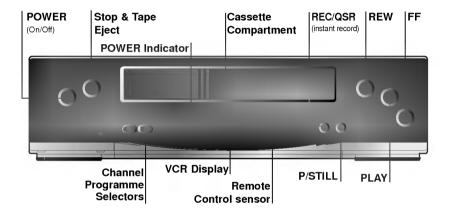


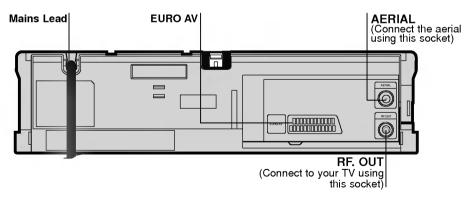
Your video recorder (VCR) is designed so that almost all of its features can be controlled from the REMOTE CONTROL HANDSET. Some features can also be controlled from the FRONT PANEL of the video recorder. The maximum operating distance that you may control your video recorder is about 7.5 metres (25 feet). It must also be within an angle of 30 degrees either side of the REMOTE SENSOR on the front of your video recorder.

To avoid damage from possible battery leakage, remove the batteries if you do not plan to use the remote control handset for an extended period of time. Do not use batteries of differing age or type. Always discard batteries safely.



Each button on your VCR has the same function as its corresponding button on the remote control handset.





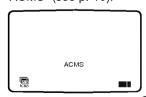
# Your VCR's Controls

# Connections To a TV

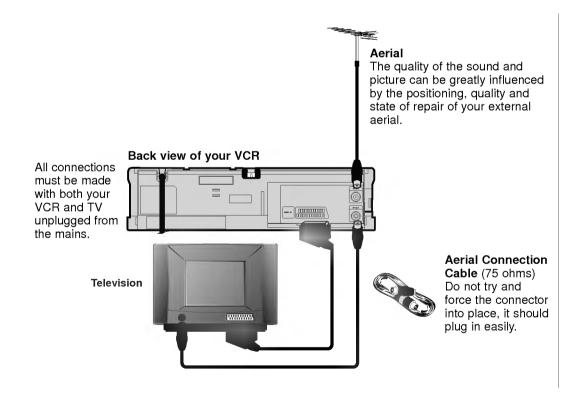
# Using your VCR very first time

Following picture will display on the TV screen when you have just connected your video recorder for the very first time.

To make tuning TV stations, please follow stages 3 to 4 as shown "ACMS" (see p. 10).



The guidance given on this page is the most common forms of connection. However please check with your manufacturers instruction books for specific information. Make sure all connections are made with both your VCR and additional appliance unplugged from the mains to avoid damaging your equipment. Connecting a VCR using a SCART lead is one of the best ways to achieve optimum sound and picture quality from video-tape playback.





Your TV receives signals from the video recorder (VCR) like another TV station.

You have to select a channel number on your TV and tune it in so that you may watch video tapes.

If you have used **SCART** cable then your TV should already have a dedicated video channel built into it, usually called **AV.** 



Make sure that you have correctly installed your VCR as described earlier in this book.

Press **POWER** to turn on your VCR.

Turn on your TV.





Insert a pre-recorded video tape into your VCR and press **PLAY** on the remote control.



Select a TV channel number on which you wish to watch video's.

Don't worry if you don't have a video-tape to play at this stage!
If you switch your VCR on and continue stages 3 ~ 4, instead of seeing video playback tune your TV until you see a bright blue screen.



Tune this channel until the video picture is sharp and the sound is clear.

If you have used a SCART cable you will not have to tune your TV, simply select the AV channel. The AV channel is already pre-tuned for optimum video playback on your TV.



Store this channel on your TV.

You will need to look at the TV instruction book if you do not know how to do this.

# Tuning in a Video channel On your TV

The output frequency of this video recorder (VCR) is set at UHF channel 60. If channel 60 is already used by another TV station, or if the picture is distorted, you can change the transmitter channel of your VCR. Stages 5 ~ 8 will show you how to change the output frequency of your VCR.

Only carry out stages 5 ~ 8 if you cannot obtain clear video playback as described in stages 1 ~ 4.

Select a TV channel number on which you wish to watch video's.

Make sure that your VCR is in STANDBY (only the clock will be displayed).



Hold down both PROG. ▲ and ▼ on the front of your VCR for more than 4 seconds.

CH60 will appear in the VCR display.





Press **PROG.** ▲ or ▼ to select another video channel.



You may select any channel number between 22 and 68, until the test pattern shown the below is appeared.





Select a TV channel number on which you wish to watch video's.

Tune this channel so that a bright blue screen appears.

Store this channel on your TV.

Press **o** on the front of your VCR when you have finished.



Make sure that you have correctly installed your VCR and successfully

tuned in a dedicated video channel on your TV. If you do not tune in a dedicated video channel on your TV you will be unable to view and record video tapes!

This VCR can easily be programmed by using the menus displayed on screen. The menus are controlled from the REMOTE CONTROL HANDSET.

Switch on your TV set and video recorder by pressing the POWER button.



appear on the TV screen.



Press ◀ and ▶ to select the desired menu.

Press **OK** and press ▲ or ▼ to select.

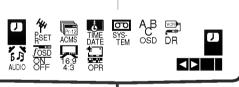


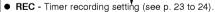
Press "i" to return to a TV picture.











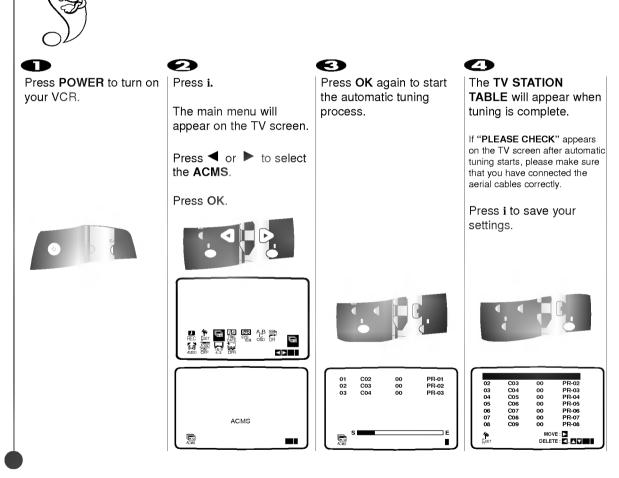
- PR SET Manual tuning setting (see p. 11 to 12).
- ACMS ACMS (Automatic Channel Memory System) (see p. 10).
- TIME DATE Date & clock setting (see p. 22).
- SYSTEM To set the Colour TV System (see p. 21).
- ABC OSD To change the language setting for OSD (see right).
- DR To check a problem with your VCR (see p. 28).
- AUDIO To select the channel for audio output. RF AUDIO - To 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).
- OSD ON/OFF To display the operational mode of your VCR (see p. 25).
- 16:9/4:3 To select the aspect ratio of your TV (see p. 27).
- OPR To improve the playback picture (see p. 16).

# LANGUAGE **SELECTION**

You can select the language among English, Russian, Deutsch, Français, and Polski.

# Iuning in FV Stations Automatically

If the TV broadcast signal is weak your VCR may not detect the necessary information and will be and to store them correctly. To overcome this problem please turn to the **MANUAL TUN-ING** section on page 11 to 12.



In certain areas of the country broadcast signals may be too weak for your VCR's automatic tuning process to find or assign TV stations correctly.

You must tune in these weaker broadcast stations manually in order for your VCR to store them.



Press i.

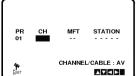
The main menu will appear on the TV screen.

Press ◀ or ▶ to select the **PR SET**.

Press OK.







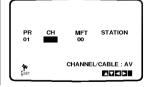


Press **AV** to select **C** (Standard stations) or **S** (Cable stations):
C02 - C71, S01 - S41.



Repeatedly press ▲ or ▼ to tune in the TV station.

If you know the broadcast station number of your particular TV station you may enter its number directly by using the number buttons on the remote control.





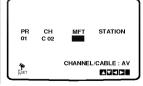
Press ► to select MFT.
Press ▲ or ▼ to adjust.

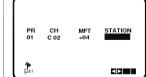




Press ► to select STATION so that you may name your TV station.







# Tuning in TV Stations Manually



Press OK.



Press ▲ or ▼ to select **letters** and **numbers** for the new station name.

Press ◀ or ▶ to move back and forth between characters.

Press **OK**.



Press i, confirm the station placement.

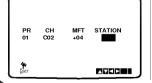
If you wish to manually tune other stations repeat stages 1 - 7.



Press i again.

Your new TV station has now been tuned into your VCR.















After tuning TV stations into your VCR you may wish to **change** the order in which they are stored without having to retune them against! The instructions given on this page will show you how you can simply move them into your desired order.



# Press i.

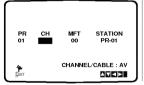
The main menu will appear on the TV screen.

Press ◀ or ▶ to select the PR SET.

Press OK.









## Press i.

Press ▲ or ▼ to select the **programme number** you want to move (for example, PR 03).

Press ▶.



04 ( 05 (	003 005 006	00 00 00	TV2 PR-04 PR-05
05	206		
05	206		
		00	PR-05
06 (			
	207	00	PR-06
07 (	208	00	PR-07
08 (	209	00	PR-08
<b>%</b> Eset	MOVE : ► DELETE : ◄, ▲ ▼		

	_		
01	C02	00	PR-01
02	C03	00	TV2
03			
04	C05	00	PR-04
05	C06	00	PR-05
06	C07	00	PR-06
07	C08	00	PR-07
80	C09	00	PR-08
Au.			
Set .			
Here.			



Press ▲ or ▼ to select the **programme number** you want to move to (for example, PR 05).

# 4

# Press OK.

The selected **programme** will be moved to the **new programme number**.

If you wish to move other TV stations repeat stages 1 - 4.

Press i to remove the menus from the TV screen.



	_		
01	C02	00	PR-01
02	C03	00	TV2
03	C05	00	PR-04
04	C06	00	PR-05
05			
06	C07	00	PR-06
07	C08	00	PR-07
08	C09	00	PR-08
<b>₩</b> Şset			



<b>₩</b> Bset			/E : 🔼 /E : 🛂 , 🔼 🗸 🛗 📑
08	C09	00	PR-08
07	C08	00	PR-07
06	C07	00	PR-06
04	000	00	111-04
04	C06	00	PR-04
03	C05	00	PR-03
02	C03	00	TV2
01	C02	00	PR-01

# **Changing**the order of TV Stations

# Stations **Deleting**

How to selecting Stored TV stations:

Stored TV stations can be selected in either of two ways. Press ▲ or ▼ to select different stations that are tuned into your VCR.



You may also directly select stations using the numbered buttons on the remote control.



After tuning TV stations into your VCR you may wish to **delete** a station.

The instructions given on this page will show you how easily delete any unwanted TV stations.



Press i.

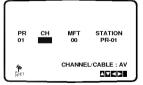
The main menu will appear on the TV screen.

Press ◀ or ▶ to select the PR SET.

Press OK.









Press i.

Press ▲ or ▼ to select the programme number you want to delete.



Press ◀.

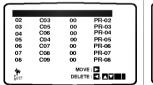
After a short while, the selected station will be deleted.



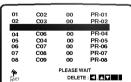
Press i to remove the menus from the TV screen.

If you wish to delete other TV stations repeat stages 1 - 3.











01	C02	00	PR-01
02	C03	00	PR-02
04	C04	00	PR-04
05	C07	00	PR-05
06	C08	00	PR-06
07	C09	00	PR-07
80			
<b>4</b> 6 Eset	MOVE: ► DELETE : ◄. ◘ ▼		

You will only be able to load and eject video cassettes when your VCR is plugged into the

Your VCR may also playback recordings from NTSC tapes (on PAL TV).



Make sure that you have correctly connected your VCR as described earlier in this book.

Turn on your TV.

Press **POWER** to turn on your VCR.





Insert the video cassette into your VCR.

The video cassette should have the window side facing up and the arrow facing away from you.





Press **PLAY** to start playing your tape.



If you load a video cassette which has had its record protection tab removed (playback of the cassette will start automatically).

# **AUTO TRACKING**

Your VCR will automatically adjust the tracking to give the best picture quality. A.TR will appear in your video recorder's display while it is doing this.



Press P/STILL to still a picture.

Press P/STILL repeatedly to advance the tape frame by frame.



Tapes can be paused for up to 5 minutes. After 5 minutes your VCR will stop the tape to prevent damaging the tape or your VCR .

Still picture quality can be improved slightly by pressing ▲ or ▼.



# Playback a tape



Press **PLAY** to continue playing your tape.

# Picture search:

During playing back press either FF or REW to this will enable you to rapidly wind the tape (7 times normal playback) see where you are on the tape.

## Logic search:

During fast forwarding or rewinding press and hold FF or REW the picture will be played back at 7 times normal playback speed.





Press **STOP** to end playback.



Press **EJECT**.



If the end of the tape is reached, your VCR will stop playback automatically, rewind, stop, eject the tape and place itself into power off mode.

# CM (Commercial Message) Skip:

This feature enables you during playback of a tape to skip a commercial break in a few seconds, then resume normal playback.

While tape is playing press **CM SKIP** on the remote control to skip commercial (or another programme material).



# Repeatedly press **CM SKIP** to skip:

1 Press	30 seconds
2 Press	60 seconds
3 Press	90 seconds
4 Press	120 seconds
5 Press	150 seconds
6 Press	180 seconds

# OPR (Optimum Picture Response):

This feature automatically improves playback picture quality by adjusting your VCR to the condition of the tape.

Press i.

Press ◀ or ▶ to select **OPR**.

Press OK.



Press ▲ or ▼ repeatedly to select: OFF, SOFT or SHARP.

Please note you may only set OPR when playing a tape.

Press i return to screen.

Your VCR incorporates a number of tape search features that enable you to quickly search a tape for your particular recording.

(AC470Y)

During playing back or still picture press ◀ or ▶ repeatedly to obtain different playback speeds.



(AC470Y)

Press ▲ or ▼ to improve picture quality.



(AC470Y)

Press **PLAY** to play your tape back at normal speed.



**4** 

Press STOP.

STOP will appear for a few seconds on the TV screen.



# **Other**Playback features

# Fast Forward (FF):

Press FF.

The tape will rapidly wind forwards.

FF will appear for a few seconds on the TV screen.



# Rewind (REW):

Press **REW**.

The tape will rapidly wind backwards.

REW will appear for a few seconds on the TV screen.



# Your VCR allows you to make recordings using a variety of simple methods: Quick Set Recording (QSR) start recording immediately for a set period of time or until the video cassette runs out.



Make sure that you have correctly connected your VCR as described earlier in this book.

Press **POWER** to turn on your VCR.





Insert a video cassette with protection tab into your VCR.

The video cassette should have the window side facing up and the arrow facing away from you.





Press ▲ or ▼ to select the **programme number** you wish to record.



You may also directly select programme number using the numbered buttons on the remote control.





If you wish to record directly from the SCART socket press **AV**, as shown by the display (AV) on the TV screen.





If you do not wish to record on a tape (this can happen quite easily by accident!) remove the protection tab on the back edge of the video cassette.

It is possible to record on a video cassette with the record protection tab removed by covering the hole with self adhesive tape.





Your VCR incorporates Long Play (LP) which enables you to record up to twice the amount of time on a video cassette. For example an E-180 will record up to 180 minutes using Standard Play (SP); using LP you will be able to record up to 360 minutes. **Please note** there will be a slight loss in picture and sound quality when using LP.

Remember you can record one programme while watching another by starting your instant recording, press TV/VCR to select TV mode and then selecting a different channel on your TV.





Press **LP** if you wish to record in Long Play or Standard Play.

SP will produce improved picture and sound quality, however LP will provide twice as much recording time as SP. SP or LP will be displayed in your VCR display to let you know which you have selected.



Press **REC/QSR** to start recording.

RECORD will appear on the TV screen.

Press **REC/QSR** several times. Each successive press will increase the record time by 30 minutes until you reach a maximum of 9 hours.



Press **P/STILL** to avoid recording unwanted scenes.

Press **P/STILL** to continue recording.

Tapes can be paused for up to 5 minutes; RECP will be displayed when a tape is paused. After 5 minutes your VCR will stop recording to prevent damaging the tape or your VCR.



Press **STOP** to end recording.

Press **EJECT**.

EJECT will appear on the TV screen and on the video recorder's display for a few seconds.











Your VCR is equipped with triple colour standard, you can play back a tape in PAL B/G and SECAM D/K.

During playback your VCR detects the colour system automatically. It there are colour problem please select the colour system manually.



# Press i.

The main menu will appear on the TV screen.

Press ◀ or ▶ to select the SYSTEM.





# Press OK.





Press ▲ or ▼ to select according to the COLOUR system used.

**AUTO**: automatic colour selection.

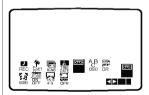
**PAL**: PAL recordings **MESECAM**: SECAM B/G recordings.





Press i to remove the menus from the TV screen.







# set the colour system

# Setting the Clock Manually

The clock in your VCR controls time and date settings for your VCR.





Press i.

Press ◀ or ► to select **TIME DATE.** 

Press OK.

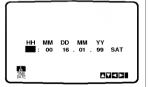


Use the numbered buttons on the remote control to alter the HOURS, MINUTES, DAY, MONTH and YEAR.

Please note your VCR uses a 24 hour clock. e.g. 1pm will be displayed as 13:00.

The day of the week will appear automatically when you enter the year.







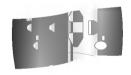
If you make a mistake press ◀ or ▶ and enter the correct details.



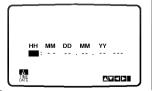


Press i.

Your new clock settings are stored and will appear on your video recorder's display.







You NO yo

You may set up to seven timer record events within one month of the current date PLEASE NOTE! before setting the timer make sure that you have set the VCR clock correctly and you know which stations you have tuned TV stations on your VCR.



Insert a video cassette with protection tab into your VCR.

The video cassette should have the window side facing up and the arrow facing away from you.





Press i.

Press ◀ or ▶ to select **REC**.

Press OK.

团



-- --:------ SP -- --:------ SP -- --:----- SP

DELETE: ☑, ☑☑■■

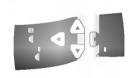


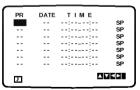
Press **OK** to start setting the timer record event.



If all timer record events are full press  $\blacktriangle$  or  $\blacktriangledown$  to select the event that you wish to remove and replace.

Press ◀ to delete the event.







Press the **numbered buttons** to enter the station that you wish to record.



When selecting stations 1 - 9, press 0 first, then the channel number; for example Stations 3 - 03. You may also select Channels by pressing ▲ or ▼. Once selected press ▶.

If you wish to record from the EURO SCART socket on the back of VCR, press AV.



# Timer recording Using Unisplay

If Timer record events Overlap...

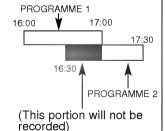
Make sure that the preset times of the timer recording events do not overlap. If they do, the earlier programme will always be given priority.

## Example:

Programme 1 is programmed to start at 16:00 and end at 17:00.

Programme 2 is programmed to start at 16:30 and end at 17:30.

(In this case, Programme 1 will be recorded in its entirety, but only the last 30 minutes of Programme 2 will be recorded.)



If at a later date you wish to **delete** or **change** any of the settings in timer event memory you may do so without having to enter all the timer event information again. Simply display the timer event screen. Press ▲ or ▼ to select the event that you wish to **delete** or **change**.

Press ◀ to delete the event...or

Press OK to change; then press 

or 

to select; Station, Date, Start and End times and LP. Press 

or 

to enter the correct information.



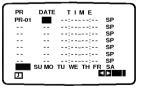
Press the **numbered buttons** to enter the date of the programme.



If you press **OK** before entering the date you may select one of the following automated recording features. Press ◀ or ▶ to select, then press **OK** to confirm.

**DLY** To record every day (except Saturday and Sunday) at the same time.

**Weekly** To record at the same time every week.

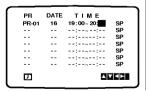




Press the **numbered buttons** to enter the recording start and end times of the programme that you wish to record.



Please note your VCR uses a 24 hour clock. e.g. 1pm will be displayed as 13:00. You may also select the the start and end times by pressing ▲ or ▼.





Press ◀ or ▶ and press ▲ or ▼ if you wish to record in Long Play.



Check that the timer event details are correct.

Press i twice.

If PLEASE CHECK is displayed, you have entered incorrect and will need to re-enter the data.

Press **POWER** to switch your VCR Standby.







will appear in the video recorder's display while your VCR waits to make the recording.

Your VCR has an Energy Save feature which if set will place your VCR into an economic power save where the clock display will disappear. If you have programmed a recording, this feature will not work.



Press **o** on the VCR.

The VCR and clock will appear on the video recorder's display.



Press on the VCR again and your VCR will go into Energy Save.

The VCR and clock display will disappear.

Press o to switch off Energy Save.



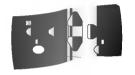


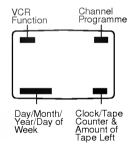
You may easily display the current time or tape counter, amount of tape left, day, month, year, day of week, programme channel, and operational mode of your VCR will appear on the TV screen.

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



Press OK/CLK/CNT to display.





After 3 seconds the display will clear only



Press OK/CLK/CNT repeatedly to display the TAPE COUNTER.

Press OK/CLK/CNT again to remove all displays from the TV screen.



The **Digital Tape Counter** can be displayed on your VCR's display instead of the time by pressing **OK/CLK/CNT** on the remote control. The Digital Tape Counter indicates the relative positions of recordings on the tape.



Press **OK/CLK/CNT.**Press **CLEAR** to set the counter to 0:00:00.

Press **PLAY** or start recording.

The tape counter will display the actual play time in hours, minutes and seconds.





Press **STOP** when playback or recording is complete.

Press **REW**.

The tape will rewind and automatically stop when the counter returns to 0:00:00.





The control buttons on the front of the VCR can be switched off so that your VCR can only be operated using the remote control.



Press C.LOCK.

will appear from your video recorder's display.

None of the buttons on the front of your VCR will work (except STOP/ EJECT)

If any buttons on the front of your VCR are pressed will flicker in your video recorder's display.





Press **C.LOCK** again to switch off the child lock.

will disappear from your video recorder's display.



Your VCR can record and play back wide screen aspect ratio programmes (16:9). To record a wide screen format programme successfully the correct type of wide screen signal must be broadcast by the TV station.



Switch on your VCR.

Press i.

Press ◀ or ▶ to select 16:9/4:3.

Press OK.





16:9:





Press ▲ or ▼ repeatedly to select: AUTO, 4:3 or 16:9.



## AUTO:

Automatically plays back Wide-Screen programmes as Wide-Screen and Normal programmes as normal.

4:3:

Only for playing back and recording Normal format recordings (4:3).

Only for playing back and recording Wide-Screen format recordings (16:9).





Press i to remove the menus from the TV screen.



To enjoy Wide-Screen playback you must connect your VCR to the TV using a SCART cable.



# **Automatic Memory Shut-Off**

This feature of your VCR enables you to switch off your VCR automatically after tape rewind has been completed.



Press **POWER** during tape rewind.



The tape will rewind to the beginning and your VCR will automatically switch itself off.



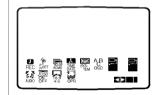
Self-Diagnosis (VIDEO DOCTOR)

**1** Press i.

Press ◀ or ▶ to select DR.

Press OK.









● NOT RECORDABLE: Insert a tape with its protection tab in place NO. OF TIMER PRO-GRAMME

Shows the number of timer recording.

● ARD 26 10:00~11:00



This usually occurs at the end of the evening when TV stations stop broadcasting.



This feature informs you that there is a

, problem with your VCR. These error messages will appear on the TV screen

and in your video recorder's display.

Press ▲ or ▼ to check a problem.

# HEAD STATUS ● PLEASE CLEAN:

Clean your video

# heads. AERIAL CONNECTION

PLEASE CHECK:
 Connect your VCR to a

TV aerial and TV.

• AV MODE/ PLAY MODE:

Shows the current mode of VCR.

## • EMPTY PR: Appears when a station

# has not memorized.

# **TAPE STATUS**

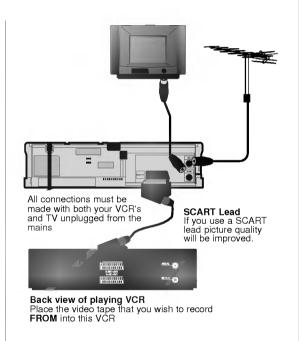
• 2

# NEXT TIMER PROGRAMME

Shows the current status of timer recording.

Press i.

A second VCR (for tape copying) should be connected to the AV sockets on the front of your VCR or one of the SCART sockets on the back of your VCR. Remember to select the audio/video mode by pressing the AV button on the remote control.



## General

Power consumption 100-240V~, 50Hz.

Approx. 18 Watts (Energy saving mode: 3 Watts)

Video Head System Double azimuth 4 heads, helical

scanning(AC470Y).

Rotary 2 heads, helical scanning (AC270Y).
e speed 23.39 mm/sec (SP mode)/

Tape speed 23.39 mm/sec (SP mode)/ 11.69 mm/sec (LP mode). Tape format Tape width 12.7 mm (0.5 inch).

Maximum recording time 4 hours (SP mode, E-240 tape)/8 hours (LP mode, E-240 tape).

Approx. 180 sec.(E-180 tape).

Dimensions 360 x 94 x 270 mm (W x H x D)

Weight 3.4 Kg.
Operating temperature 5°C - 35°C
Operating humidity Less than 80%.
Timer 24 hours display type.

Video

Television system CCIR standard (625 lines, 50 fields) PAL/SECAM colour signal

Recording format
RF Reception
RF Output
RF OUT

1.0 Vp-p, 75 Ohm, unbalanced
Output level VIDEO OUT (SCART type)
1.0 Vp-p, 75 Ohm, unbalanced
Signal to noise ratio More than 43 dBm.

Signal to noise ratio More than 43 dBm.

RF Modulator UHF 22-68 (Adjustable)

Audio

Input level

Output level

Track Frequency response Signal to noise ratio AUDIO IN (SCART type)
-5.0 dBm, more than 10 kohms
AUDIO OUT (SCART type)
-5.0 dBm, less than 1 kohm

Mono track

Normal: 100 Hz-10 kHz (-5/+3 dBm)

More than 43 dB

# Specifications



The design and specifications are subject to change without notice.

# **Troubleshooting**Check List

Video Head Cleaning
Whenever a video cassette is inserted into or ejected from your VCR the video head is automatically cleaned. This should mean that additional head cleaning should not be necessary. However dirt accumulating on the head after a long period of time 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.

Symptom	Check points	Symptom	Check points
No picture & no sound	Is the mains plug plugged in and switched on? Is the TV switched on? Try another channel, maybe a weak signal. Check aerial is it plugged in? Check aerial, is the lead broken or damaged?	Video cassette cannot be inserted	Is the cassette compartment empty? Are you trying to insert the cassette the right way round?
	Have you tuned in a dedicated channel on your TV to watch video on?  If you have used a SCART lead to connect your VCR and TV have you selected the AV channel on your TV?  Check tuning, carry out Automatic Tuning again	Remote control does not work The top of the playback	Is the mains plug plugged in and switched on? Is the VCR switched on Check the batteries in remote control.  Is the video cassette damaged, have you tried using another one?
No playback or poor picture	Are the TV channels tuned in properly? Have you tried using another cassette? Can you minimise the noise bars to an acceptable level with the 0 or ▲ or ▼ buttons?  Can you get a picture on the TV?	picture is unstable	Adjust the horizontal control on your TV. Check aerial is it plugged into VCR? Check aerial, is the lead broken or damaged? Check for local interference Make sure that you are using a dedicated TV channel on your TV.
programmes cannot be recorded	Are the aerial leads and special RF connector lead between your VCR and TV connected? Are the TV channels tuned in properly; are they tuned in order? Has the safety tab on the video cassette been removed to prevent recording? Try another station, maybe a weak signal Check aerial is it plugged into TV?	Auto Play does not work	Has the safety tab been removed from the video cassette?



P/N:3834RP0038V