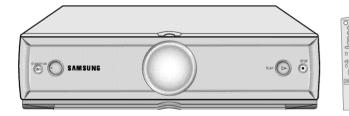


VIDEO CASSETTE RECORDER Hi-Fi NICAM & A2 STEREO SV-646I

Instruction Manual





Contents



▶ FORE	WORD	
•	Safety Instructions	
▶ VCR	Overviews	
:	Front View of the VCR	:
CONN	IECTING YOUR VIDEO CASSETTE RECORDER	
	Deciding How to Connect Your VCR	1 1 1
_	NG UP YOUR VIDEO CASSETTE RECORDER	
SEIII	Inserting Batteries in the Remote Control	1; 1; 1; 1; 1; 1; 1; 1; 1;
RECO	ORDING TELEVISION BROADCASTS	
	Selecting the Cassette Type Selecting the Recording Speed	2 2 2 2 2 2

Contents (cont.)



◆ PLAYING BACK	
■ Playing a Cassette	2
Adjusting Picture Alignment Manually	2
■ Intelligent Picture Control	2
Selecting the Colour Mode	2
Selecting the Audio Output Mode	
♦ SEARCHINGFORA SEQUENCE	
■ Playing a Cassette in Slow Motion	2
■ Playing a Sequence Frame by Frame	2
■ Picture Search, Fast Forward/Rewind	3
Searching for a Specific Sequence	
 Auto Repeat Play 	3
■ Interval Repeat Play	
Using the Tape Counter	3
◆ Advanced Recording Features	
■ Connecting RCA Audio/Video Input Cable	3
■ Using the Assemble Edit Function	
■ Recording from Another VCR or Camcorder	
 Audio Dubbing a Pre-recorded Cassette 	3
◆ OTHER FUNCTIONS AND USEFUL RECOMMENDATIONS	
■ Using the TV Buttons on the Remote Control	3
■ Auto Power Off	3
■ ECO Mode-Reducing Standby power consumption	3
■ Technical Specifications	3
◆ Solving Problems	
Problems and Solutions	3
■ TV Frequency Table	4

Symbols



Press/push



Hold down





Important

Note

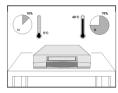
1 = Step number

Safety Instructions

The following illustrations represent precautions.



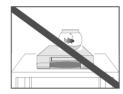
The lightning bolt is a warning sign alerting you to dangerous voltage inside the product. DO NOT OPEN THE VCR. Refer to service personnel.



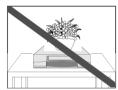
Do NOT expose the VCR to extreme temperature conditions (below 5°C and above 40°C) or to extreme humidity conditions (less than 10% and more than 75%).



Do NOT expose the VCR to direct sunlight.



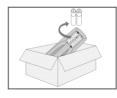
Do NOT expose the VCR to any liquids.



Do NOT place any objects on the VCR or remote control.



During a storm and/or lightning, unplug the VCR from the mains socket and aerial.

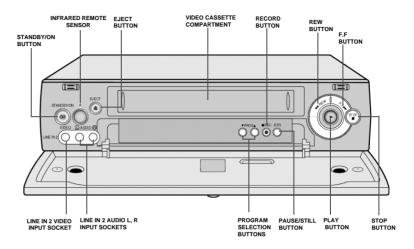


If the remote control is not used for a long period of time, remove the batteries and store it in a cool, dry place.

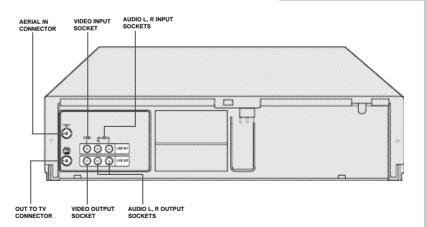
THIS DEVICE IS NOT FOR USE IN INDUSTRIAL ENVIRONMENTS

Front View of the VCR



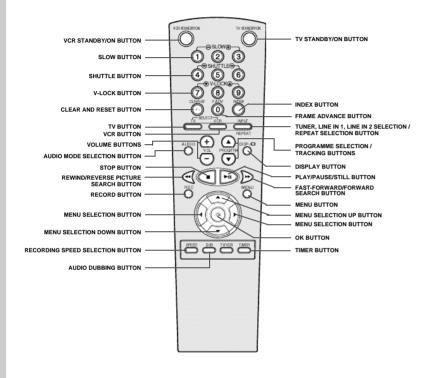


Rear View of the VCR



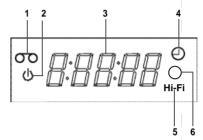
Infrared Remote Control





Display Indicator





- 1 Cassette loaded indicator
- 2 ECO Mode display
- 3 Multi-function display
- 4 Timer indicator
- 5 Hi-Fi indicator
- 6 Rec indicator

Accessories

You have just purchased a SAMSUNG Video Cassette Recorder (VCR). Together with your VCR, you will find the following accessories in the box.









COAXIAL CABLE



Deciding How to Connect Your VCR

You must take into account various factors when connecting audio or video systems:

- ◆ Types of connectors available on your systems
- Systems connected permanently to the VCR (satellite receiver for example) or temporarily (camcorder for example)

Your VCR is equipped with the following connectors.

Connector	Location	Туре	Direction	Recommended Use
LINE IN 1	Rear	Audio/Video RCA	In ⊕	Camcorder Satellite receiver Other VCR
Audio/Video output	Rear	Audio/Video RCA	Out ⊡+	◆ Television◆ Other VCR◆ Audio Hi-Fi system
LINE IN 2	Front	Audio/Video RCA	In ⊕	Audio Hi-Fi systemCamcorderOther VCR
OUT TO TV	Rear	75 coaxial	Out □+	◆ Television
IN FROM ANT	⊼. Rear ŏ	75 coaxial	In ⊕	◆ Aerial◆ Cable television network◆ Satellite receiver



Whenever you connect an audio or video system to your VCR, ensure that $\underline{\it all}$ elements are switched $\underline{\it off}.$

Refer to the documentation supplied with your equipment for detailed connection instructions and associated safety precautions.

Connecting Your VCR to the TV using the Coaxial Cable

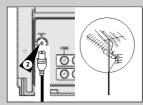
To receive television programmes a signal must be received from one of the following sources:

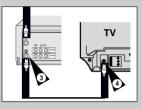
- ◆ An outdoor aerial
- ♦ An indoor aerial
- ◆ A cable television network
- ◆ A satellite receiver



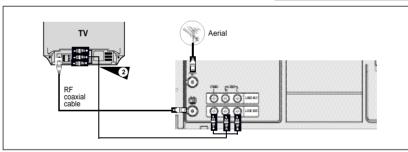
Make sure that both the television and the VCR are switched off before connecting the cables.

- 1 Remove the aerial or network input cable from the television.
- 2 Connect this cable to the 75 coaxial socket marked ☐☐ on the rear of your VCR
- 3 Plug the coaxial cable supplied into the socket on your VCR.
- 4 Plug the other end of the coaxial cable into the connector previously used for the aerial on the television.
- 5 To obtain better quality pictures and sound on your television, you can also connect your VCR to the television via the RCA cable (see section below) if your television is equipped with this type of connection.





Connecting Your VCR to the TV using the RCA Cable



You can connect your VCR to the television using the RCA cable if the appropriate input is available on the television. You thus:

- ♦ Obtain better quality sound and pictures
- ◆ Simplify the setting up procedure of your VCR



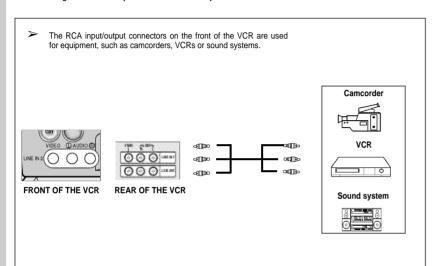
- Regardless of the type of connection chosen, you must always connect the coaxial cable supplied. Otherwise, no picture will be visible on the screen when the VCR is switched off.
- Make sure that both the television and the VCR are switched off before connecting the cables.
- Connect the coaxial cable as indicated in the above section.
- ! Connect one end of the RCA Audio/Video cable to the Video output and Audio L, R output socket on the rear of the VCR
- 3 Plug the other end into the appropriate connector on the television.







You can connect other audio and/or video equipment to your VCR in different ways. The following illustrations give a few examples of the connection possibilities.



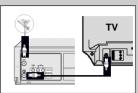
Plug & Auto Set Up

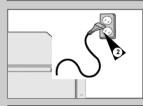
Your VCR will automatically set itself up when it is plugged into the mains for the first time. TV stations will be stored in memory. The process takes a few minutes. Your VCR will then be ready for use.

- 1 Connect the coaxial cable as indicated on page 9. (Connecting Your VCR to the TV Using the Coaxial Cable)
- 2 Plug the VCR into the mains.
 Result: The LANGUAGE SET menu is displayed.
- Select the required language by pressing the ▲ or ▼ buttons.
- Press OK to store the language selected.

 Result: A message appears.
- 5 Press OK to start the auto scanning.
 - The number of stations automatically stored by the VCR depends on the number of stations that it has found.
- 6 On completion, press MENU twice to exit the menu.











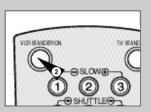


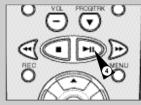


01371A SV-646I/XFA-GB1 8/27/56 1:29 PM Page 12

Tuning Your Television for the VCR







You must tune your television for the VCR only if you are not using



To view pictures from your VCR when a RCA cable is used, the television must be set to the audio/video mode

- Switch on the television.
- Switch on the VCR by pressing STANDBY/ON on the front of the VCR or VCR STANDBY/ON on the remote control.
- Select a programme position on the television to be reserved for use with your VCR.
- Insert the video cassette in the VCR. Check that the VCR starts reading the cassette; if not, press ►II button.
- Start a scan on your television or set the television to UHF
- 6 Fine tune the television until the pictures and sound are obtained
- If you cannot find the pictures and sound, or there is interference from nearby channels, it may be necessary to change the setting of the VCR output channel (see Solving Problems section of this manual).
- When the picture and sound are perfectly clear, store this channel at the desired programme position on the television.

Result: That programme is now reserved for use with your VCR.

12			

01371A SV-646I/XFA-GB2 8/27/56 1:30 PM Page 13 _

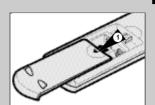
Inserting Batteries in the Remote Control

You must insert or replace the batteries in the remote control when you:

- ◆ Purchase the video cassette recorder
- Find that the remote control is no longer working correctly
- Push the tab in the direction of the arrow to release the battery compartment cover on the rear of the remote control.
- Insert two AA, R6 or equivalent batteries, taking care to respect the polarities:
 - + on the battery with + on the remote control
 - → on the battery with on the remote control
- 3 Replace the cover by aligning it with the base of the remote control and pushing it back into place.



Do not mix different battery types (manganese and alkaline for example).





Setting the Date and Time

Your VCR contains a 24-hour clock and calendar used to:

- ◆ Automatically stop programme recording
- ◆ Preset your VCR to record a programme automatically

You must set the date and time when:

- ◆ You purchase the video cassette recorder
- ♦ The power supply remains off for more than 1 hour



- Do not forget to reset the time when you change clocks from winter to summer time and vice versa.
- Press MENU on the remote control.
 Result: The programming menu is displayed.
- Press the corresponding ▲, ▼ or ◄, ▶ buttons to select the CLOCK SET option.
- Press the OK button to select this option.

 Result: The CLOCK SET menu is displayed.
- 4 Press

 or

 to select the hour, minutes, day, month and year.

 Result: The option selected flashes.
- Fress the ▲ or ▼ buttons to increase or decrease the value. Result: The day of the week is displayed automatically.
 - You can hold the ▲ or ▼ buttons down to scroll more quickly through the values.
- 6 On completion, press MENU twice to exit the menu.







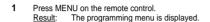




Displaying/Hiding On-Screen Information

Your VCR displays most information both on the VCR and the

You can choose to display or hide this information on the television screen (except for the Index, Programming MENU which cannot be



- 2 Press the corresponding ▲, ▼ or ◀, ▶ buttons to select the USER SET option.
- Press the OK button to select this option. Result: The USER SET menu is displayed.
- Press the corresponding ▲ or ▼ buttons, until the OSD option is selected.

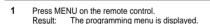
5	То	Press ◀ or ▶, until
	Display on-screen information	ON is displayed.
	Hide on-screen information	OFF is displayed.

On completion, press MENU twice to exit the menu.

PROG OPTION INSTAL AV 4> 0 END: MONO



Choosing Your Language



Press the corresponding ▲, ▼ or ◄, ▶ buttons to select the LANGUAGE SET option.

Press the OK button to select this option. Result: The LANGUAGE SET menu is displayed.

Select the required language by pressing the ▲ or ▼ buttons

5 Press OK to store the language selected.

Press MENU to exit the menu.

From now on, all the on-screen information will be displayed in the language selected.

You can change the language in which information is displayed on

frequency in which information is displayed on the screen. Press MENU on the remote control. Result: The programming menu is displayed.

- Press the corresponding ▲, ▼ or ◀, ▶ buttons to select the INSTALLATION option.
- Press the OK button to select this option. The INSTALLATION menu is displayed.
- Press the corresponding ▲ or ▼ buttons, until the VCR OUTPUT CH option is selected.
- Select the required output channel by pressing the ◀ or ▶ buttons.
- On completion, press MENU twice to exit the menu. Then tune your television again (see page 12).

Setting the VCR Output Channel

Your VCR output channel may need to be changed if the pictures suffer from interference or if your TV cannot find the pictures. Also, you can change the VCR output channel to adjust the





Selecting the RF OUT Sound Mode

You must choose the sound mode (I, K or G) according to the TV set connected to your VCR.

- Press MENU on the remote control Result: The programming menu is displayed.
- Press the corresponding ▲, ▼ or ◀, ▶ buttons to select the INSTALLATION option.
- Press the OK button to select this option. The INSTALLATION menu is displayed.
- Press the corresponding ▲ or ▼ buttons, until the TV SYSTEM
- Press the ▶ button to select I. K or G.
- On completion, press MENU twice to exit the menu.







LANGUAGE SET

DUTCH

SVENSKA

MAGYAR

POLSKI

END: MONU



PROG OPTIONS INSTAL

LANGUAGE SET

A▼ **♦ 0**

ENGLISH

FRANCATS

TTALTANO

Presetting the Stations Automatically













You do not need to preset the stations if you have already set them automatically (see Plug & Auto Set Up on

Your VCR contains a built-in tuner used to receive television

You must preset the stations received through the tuner. This can

- ◆ Plug & Auto Set up (see page 11)
- ◆ Automatically
- ♦ Manually (see page 17)

You can store up to 50 stations.

- Press the MENU button on the remote control. Result: The programming menu is displayed.
- Press the corresponding ▲, ▼ or ◄, ▶ buttons to select the INSTALLATION option.
- Press the OK button to select this option. Result: The INSTALLATION menu is displayed.
- Press the corresponding ▲ or ▼ buttons, until the AUTO SET UP option is selected. Press the button to select this option.
- Press OK to start the auto scanning.
 - Result:

 The PLEASE WAITindication flashes on the television screen.
 - · The first frequency band is scanned and the first station found is displayed and stored.
 - The VCR then searches for the second station and
 - When the automatic scanning procedure has finished, the VCR switches automatically to programme 1.
 - The number of stations automatically stored by the VCR depends on the number of stations that it has found.
- If you wish to cancel the auto scanning before the end, press the MENU button three times to exit the menu.



 Once the auto scanning procedure has finished, some stations may have been stored more than once; select the stations with the best reception and delete the ones no longer required (see page 18)

Presetting the Stations Manually

Your VCR contains a built-in tuner used to receive television

You must preset the stations received through the tuner. This can be done:

- ◆ Plug & Auto Set up (see page 11)
- ◆ Automatically (see page 16)
- ◆ Manually

You can store up to 50 stations.



You do not need to preset the stations manually if you have already set them automatically

- Press the MENU button on the remote control. Result: The programming menu is displayed.
- Press the corresponding ▲, ▼ or ◀, ▶ buttons to select the INSTALLATION option.
- Press the OK button to select this option. The INSTALLATION menu is displayed.
- Press the corresponding ▲ or ▼ buttons, until the MANUAL SET UP option is selected.
- Press the ▶ button to select MANUAL SET UP option. Result: The TV STATION TABLE menu is displayed.
- Press the ▲ or ▼ buttons to select a programme number as
- Press the button to preset the station. Result: The MANUAL TUNING menu is displayed.
- Press the ◀ or ▶ buttons to start scanning. Result: The frequency band is scanned and the first station

found is displayed. If you know the number of the channel you want, press the numeric buttons on the remote control for example, for channel 04, first press "0" and then press "0", "4" (see page 40).

If you...

Wish to store the station displayed

- Press the corresponding ▲ or ▼ buttons, until the MFT is selected.
- Press the ◀ or ▶ buttons to adjust the picture, if necessary,
- Press OK to store the station

Do notwish to store the station displayed

- Press the corresponding ▲ or ▼ buttons, until the CH is selected.
- ◆ Press the ◀ or ▶ buttons to go on scanning the frequency band and display the next station
- Go back to the beginning of Step 9
- 10 Repeat this procedure from Step 6 onwards, until all the required stations have been stored.
- On completion, press the MENU button three times to exit the menu.























If you have stored a TV station:

- ◆ That you do not require
- ◆ At the wrong programme position

you can cancel it.

- Press the MENU button on the remote control. Result: The programming menu is displayed.
- Press the corresponding ▲, ▼ or ◄, ▶ buttons to select the INSTALLATION option.
- Press the OK button to select this option. Result: The INSTALLATION menu is displayed.
- Press the corresponding ▲ or ▼ buttons, until the MANUAL SET **UP** option is selected.
- Press the button to select this option. Result: The TV STATION TABLE menu is displayed.
- Press the corresponding ▲ or ▼ buttons, until the required preset TV station (PR) is selected.
- Press the CLR/RST button.
- Repeat the same procedure from Step 6 onwards until all the required stations have been cleared.
- On completion, press the MENU button three times to exit the

Changing the Preset Station Table

You can rearrange the preset TV stations according to your own preferences programme number assigned to the station.

- Press the MENU button on the remote control. Result: The programming menu is displayed.
- Press the corresponding ▲, ▼ or ◄, ▶ buttons to select the INSTALLATION option.
- Press the OK button to select this option. Result: The INSTALLATION menu is displayed.
- Press the corresponding ▲ or ▼ buttons, until the MANUAL SET UP option is selected.

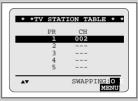
And then press the ▶ button to select this option. Result: The TV STATION TABLE menu is displayed.

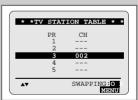
- Press the corresponding ▲ or ▼ buttons, until the required preset TV programme is selected.
 - Result: The selected station is displayed at the same time on the television screen.
- To change the programme number assigned to a station press the OK button on the remote control. (For example, To move a TV station in programme 1 to programme 3)
- Press the ▲ or ▼ buttons to select required position. And then press OK again to swap the position.
- You can modify this station by repeating the same procedure from
- On completion, press the MENU button three times to exit the



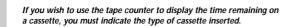


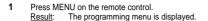




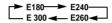








- 2 Press the corresponding ▲, ▼ or ◄, ▶ buttons to select the USER SET option.
- 3 Press the OK button to select this option.
- 4 Press the corresponding ▲ or ▼ buttons, until the TAPE SELECT option is selected.
- 5 Press the ◀ or ➤ buttons as many times as required, until the correct cassette length is displayed.



6 Press MENU twice to exit the menu.



:ON

:OFF

END: MONU

PROG PROS INSTAL

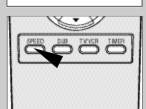
NTCAM

AV >

ECO. MODE

Selecting the Recording Speed

Туре	Recording Time (in SP)
E-180	180 mins. or 3 hours
E-240	240 mins. or 4 hours
E-260	260 mins. or 4 hours and 20 mins.
E-300	300 mins. or 5 hours



You can record a cassette at two different speeds:

- ♦ SP (Standard Play)
- ◆ LP (Long Play)

In Long Play modes:

◆ Each cassette lasts twice as long

To record a cassette	Press the SPEED button on the remote control, until
In standard play mode	SP is displayed.
In long play mode	LP is displayed.

NICAM

NICAM programmes are divided into 3 types. NICAM Stereo, NICAM Mono and Bilingual (transmission in another language). NICAM programmes are always accompanied by a standard mono sound broadcast and you can select the desired sound. Please refer to page 28.

- 1 Press MENU on the remote control.

 Result: The programming menu is displayed.
- 2 Press the corresponding ▲, ▼ or ◄, ▶ buttons to select the USER SET option.
- Press the OK button to select this option.
 Result: The USER SET menu is displayed.
- 4 Press the corresponding ▲ or ▼ buttons, until the NICAM option is selected.

5	То	Press ◀ or ▶, until
	Mono mode	OFF is displayed. OFF: Only set at this position to record the standard mono sound during a NICAM broadcast if the stereo sound is distorted due to inferior reception conditions.
	NICAM mode	ON is displayed.

6 On completion, press MENU twice to exit the menu.







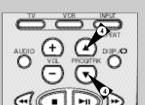


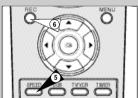
If you wish to protect a cassette, break off the tab using a small screwdriver.

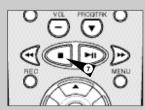
When this tab has been removed, you cannot record on the tape.

 To re-record over a protected cassette (safety tab broken), cover the hole with adhesive tape.

Recording a Programme Immediately







Before recording a programme, you must have preset the corresponding station (unless you are recording via an external video source). If you have not done so, refer to pages 16 and 17.

- 1 Switch on the television.
- To monitor the programme being recorded, select the television channel reserved for use with your VCR (or the AV input if used).
- 3 Insert the cassette on which the programme is to be recorded, with the window visible and the safety tab intact or the opening covered with adhesive tape.

Result: The VCR is switched on automatically.

- 4 Selec
 - The station to be recorded using the PROG/TRK (▲ or ▼) buttons
 - The LINE IN 1 or LINE IN 2 source using the INPUT button for a satellite tuner or external video source

Result: The station number is displayed and the programme can be seen on the television.

- 5 Select the recording speed (SP/LP) by pressing the SPEED button as many times as required (see page 20).
- 6 Hold REC down for a while to start recording.

 Result: The record indicator appears on the television and VCR display. An index is recorded on the tape (see page 30).
- 7 To stop recording, press once.



- If the cassette is ejected when you start recording, check that the safety tab is intact or the opening is covered with adhesive tape.
- If you reach the end of the tape while recording, the cassette rewinds automatically.

Recording a Programme with Automatic Stop

This function enables you to record up to nine hours of programmes. (LP)

Your VCR stops automatically after the requested length of time.

- Switch on the television.
- 2 To monitor the programme being recorded, select the television channel reserved for use with your VCR (or the AV input if used)
- 3 Insert the cassette on which the programme is to be recorded, with the window visible and the safety tab intact or the opening covered with adhesive tape.

Result: The VCR is switched on automatically.

- 4 Select
 - The station to be recorded using the PROG/TRK (▲ or ▼) buttons
 - The LINE IN 1 or LINE IN 2 source using the INPUT button for a satellite tuner or external video source

Result: The channel number is displayed and the programme can be seen on the television.

- 5 Select the recording speed (SP/LP) by pressing the SPEED button as many times as required (see page 20).
- Hold the REC button down for a while to start recording.

t: The record indicator appears on the television screen and VCR display. An index is recorded on the tape (see page 30).

- Press the REC button several times to increase the recording time
 - ♦ 30-minute intervals up to four hours
 - ◆ 1-hour intervals up to nine hours (LP)

Result: The length is displayed on the television displays. The selected programme is recorded for the length of time requested. At the end of that time, the VCR stops recording automatically.

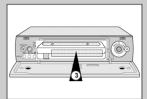
If you wish to cancel the recording before the end, press VCR STANDBY/ON.

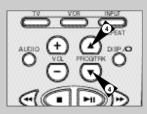


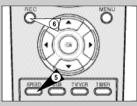
If the end of the tape is reached while recording:

- ◆ The recording stops
- ◆ The VCR automatically turns off

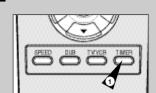






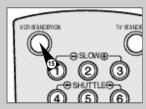












The Timer Programming feature allows you to preset the VCR to record a programme up to one month before that programme is to be broadcast. Up to six programmes can be preset.



Before presetting a recording, check that the date and time are correct.

- Insert the cassette. Press the TIMER button or.
 - Press MENU on the remote control.
 - Result: The programming menu is displayed.
- ◆ Press the OK button to select TIMER PROGRAMMING option.

 Result: The TIMER PROGRAMMING menu is displayed.
- 2 Press ▶ to select the input source.
- Select the required station by pressing the ▲, ▼ buttons or INPUT to select the LINE IN 1 or LINE IN 2 input sources.
- 4 Press ▶ to select the recording day.
- 5 Select the required day by pressing the ▲ or ▼ buttons.
- 6 Press ▶ to select the recording start time.
- 7 Select the required hour value by pressing the ▲ or ▼ buttons.
- 8 Press ▶ to select the minutes.
- 9 Select the required minute value by pressing the ▲ or ▼ buttons.
- 10 Press ▶ to select the recording end time.
- 11 Select the required recording end time by pressing the ▲ or ▼ buttons, following the same procedure as when selecting the recording start time.
- 12 Press ▶ to select the the recording speed (AUTO/SP/LP).
- Press the ▲ or ▼ buttons to switch between the AUTO, SP (Standard Play) or LP (Long Play).
- 14 When you have finished, press the MENU button.
- 15 Press the VCR STANDBY/ON button to activate the timer.

 Result: Before starting recording, the VCR compares the timer duration with the remaining time on the cassette.



Auto Tape Speed Select

The VCR's "Auto Tape Speed Select" function compares the duration of the timer recording to the actual recording time remaining on the tape loaded. If there is insufficient tape to complete a timer recording in AUTO mode, the VCR automatically switches to LP mode to record the whole programme.

E.g. If there is a one hour AUTO mode timer recording to be started, but only 40 minutes of tape remaining, the VCR will record in SP for 20 minutes and switch to LP mode for the remaining 40 minutes.

Checking a Preset Recording

You can check your preset recordings:

- ♦ When you have finished presetting the VCR
- If you have forgotten which programmes will be recorded
- 1 Insert the cassette. Press the TIMER button or.
 - ◆ Press MENU on the remote control.
 - Result: The programming menu is displayed.
 - ◆ Press the OK button to select TIMER PROGRAMMING option.
 Result: The TIMER PROGRAMMING menu is displayed.
- 2 Press the ▲ or ▼ buttons to select the required programme.
- Press the ◀ or ▶ buttons to select and change any values as required. For more details, refer to the previous page.
- 4 On completion, press MENU twice.





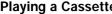
Cancelling a Preset Recording

You can cancel any programmes that are:

- ♦ Incorrect
- ◆ No longer required
- 1 Insert the cassette. Press the TIMER button or.
 - ◆ Press MENU on the remote control.
 - Result: The programming menu is displayed.
 - ◆ Press the OK button to select TIMER PROGRAMMING option.
 Result: The TIMER PROGRAMMING menu is displayed.
- Select the programme to be cancelled by pressing the ▲ or ▼ buttons.
- Press the CLR/RST button to cancel the selected programme.
 Result: All the recording information is deleted and the broadcast will not be recorded.
- 4 On completion, press MENU twice.







This function allows you to play back any pre-recorded cassette.

- Switch on both the television and your VCR.
- Insert the video cassette to be played. If the safety tab on the cassette is intact, press ►II.

Otherwise, the cassette is played automatically.

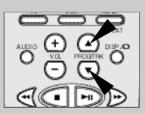
When a cassette is loaded, the tape position is optimized automatically to reduce disturbance (Digital Auto Tracking). When playing a cassette, if the end of the tape is reached, the cassette is rewound automatically.

NTSC tapes can be played back but cannot be recorded



3	То	Then press	
	Stop the playback	■ (STOP).	
	Eject the cassette	▲ (EJECT).	

Adjusting Picture Alignment Manually



The Picture Alignment feature allows you to adjust the alignment manually to obtain the best possible picture.

When noise bars or streaks appear during playback, adjust alignment manually by pressing the PROG/TRK (▲ or ▼) buttons until the picture is clear and stable.

- Result:

 The tracking bar appears.
 - ◆ The image is adjusted.
 - The tracking bar disappears when you release the button.

Intelligent Picture Control

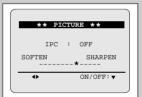
The Intelligent Picture Control Feature allows you to adjust the sharpness of the image automatically, according to your own preferences.

- During playback, press the MENU button on the remote control. Result: The programming menu is displayed.
- Press the corresponding ▲, ▼ or ◀, ▶ buttons to select the USER SET option.
- Press the OK button to select this option. Result: The USER SET menu is displayed.
- Press the corresponding ▲ or ▼ buttons, until the IPC option is
- 5 Press the ▶ button to select the IPC (intelligent picture control)
 - When intelligent picture control mode is ON, the sharpness of the image is adjusted automatically.
- To adjust the sharpness manually, press the ▼ button to turn the
- Press the ◀ or ▶ buttons until the picture is displayed according to your preferences.
 - If you do not press a button within ten seconds, the PICTURE menu disappears automatically.
- On completion, press the MENU button again.









26

PROG PROG INSTAL

OPTIONS

IPC

TAPE SELECT

ECO. MODE

AV |

COLOUR SYSTEM

END: WONG

:E180

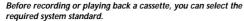
:OFF

END: MINNO

:ON

: AUTO

Selecting the Colour Mode



- ➤ When you playback an NTSC-recorded tape on this VCR make a setting on the colour system according to your TV. If your TV is a PAL system only TV, set NTPB. If your TV is Multi System TV (NTSC 4.43 compatible), set NT4.43 and you can record NT4.43.
- 1 Press MENU on the remote control.

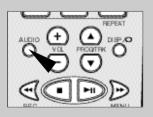
 Result: The programming menu is displayed.
- 2 Press the corresponding ▲, ▼ or ◄, ▶ buttons to select the USER SET option.
- 3 Press the OK button to select this option. Result: The USER SET menu is displayed.
- 4 Press the corresponding ▲ or ▼ buttons, until the COLOUR SYSTEM option is selected.
- Fress the ▶ button to select AUTO → PAL → MESECAM → B/W.

 AUTO When playing back a cassette, the system standard is automatically selected by the VCR.

 B/W Black and White
- 6 On completion, press MENU twice to exit the menu.

Selecting the Audio Output Mode

When monitoring a TV programme or playing back a Hi-Fi recorded video tape, press the AUDIO button to select a desired sound output. As the AUDIO button is pressed, the sound output and the indicator change as below:



	9		
Sound type OSD display	Stereo sound	Bilingual sound	Standard sound broadcast
- L R - /	Heard in stereo. (left channel and right channel)	Channel I (MAIN) heard from the left speaker, channel II (SUB) heard from the right speaker.	Heard in monaural.
	Left channel heard from both the left and right speakers.	Channel I (MAIN) heard from both the left and the right speakers.	Heard in monaural.
- R-	Right channel heard from both the left and right speakers.	Channel II-(SUB) heard from both the left and the right speakers.	Heard in monaural.
MIX	Sound mixed the left and right channels, and the normal audio track.		
L MONO	Heard in monaural.	Channel I (MAIN) heard from both the left and the right speakers.	Heard in monaural.

Playing a Cassette in Slow Motion

You can play a cassette in slow motion.

No sound is heard when playing back a cassette in slow motion

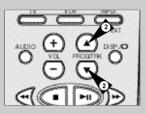
- 1 Pres
 - ♦ ►|| to start playing the cassette
 - SLOW (as many times as required to decrease or increase the speed respectively
- To return to the normal speed, press the ►II button twice.
- When playing back in slow motion, picture interference may occur. Press the PROG/TRK (▲ or ▼) buttons to minimize this effect.



When you have been using the Slow Motion function for more than about five minutes, the VCR will automatically play to protect the:

- ◆ Cassette
- ◆ Video heads





Playing a Sequence Frame by Frame

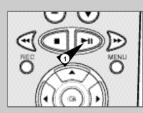
You can:

- ♦ Stop the cassette at a given frame (image)
- ◆ Advance one frame at a time
- No sound is heard when playing back frame by frame.
- Prace
 - ◆ ►II to start playing the cassette
 - ◆ ►II to stop the tape at a given frame
 - ◆ F.ADV ((a)) to advance frame by frame
- 2 To return to normal playback, press ►II.



When you have been using the Frame-by-Frame function for more than about five minutes, the VCR will automatically play to protect the cassette and video heads.

Vertice interference





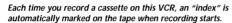
Picture Search, Fast Forward/Rewind

Picture Search enables you to Fast Forward or Rewind and look for a particular part of a tape.

- 2 To return to normal playback mode, press the ▶II button.
- 3 If you press and HOLD down the ➤ (or ◄) button the VCR will search at 9 times the normal speed. Releasing the ➤ button will return the VCR to search at 5 times the normal speed. To return to normal playback mode, press the ➤ || button.
- 4 Whilst in Picture Search mode, if you press the

 button again, the VCR will enter normal Fast Forward mode.
- 6 If, when Redwing (◄) or Fast Forwarding (►), you press the ◄ (or ►) button, the VCR will enter the Picture Search mode.

Searching for a Specific Sequence



The Search function allows you to fast-forward or rewind to a specific index and start playback from that point. Depending on the direction selected, the indexes are numbered as follows:



This VCR uses a standard indexing system (VISS). As a result, it will recognize any indexes marked by other VCRs using the <u>same</u> system and vice versa.

INTRO SCAN

- 1 To search for a specific index, press INDEX.
- Press the ✓ or ➤ buttons depending on the direction where your desired programme is located.
- When an Index mark is found the VCR will playback the tape for 5 seconds, after which it will continue searching for the next Index mark.
- 4 If you want to watch the tape from a particular Index, simply press ►II.

Index Skip Search:

This feature will enable you to fast forward/rewind to a specific point on a tape: E.g. if you have recorded 3 different programmes on a tape and you have rewound the tape to the beginning, by using this feature you can go directly to the start of programme 2 simply by pressing the INDEX button.

- 1 Press the INDEX to start the Index search.
- Press the or ➤ buttons twice more. This will take you directly to the start of the desired programme is located.
- 3 These Index searches can be made forwards: (press →) or backwards: (press ◄).
- 4 To cancel an Index search simply press the ▶II or button.

Auto Repeat Play

You can set repeat play to repeat the tape continuously from beginning to end.

- Press MENU on the remote control.
 Result: The programming menu is displayed.
- 2 Press the corresponding ▲, ▼ or ◄, ▶ buttons to select the EASY OPERATION option.
- 3 Press the OK button to select this option.
 Result: The EASY OPERATION menu is displayed.
- Press the corresponding ▲ or ▼ buttons, until the REPEAT PLAY option is selected.

5	То	Press ◀ or ▶, until
	Repeat play	ON is displayed.
	Do not wish to repeat play	OFF is displayed.

6 On completion, press MENU twice to exit the menu.





Interval Repeat Play

You can set interval repeat play to repeat the cassette several times for special interval.

- Press MENU on the remote control.
 Result: The programming menu is displayed.
- Press the corresponding ▲, ▼ or ◄, ▶ buttons to select the EASY OPERATION option.
- 3 Press the OK button to select this option.
 <u>Result</u>: The EASY OPERATION menu is displayed.
- Press the corresponding ▲ or ▼ buttons, until the NO. OF INTERVAL REPEAT option is selected.

5	То	Press ▶, until
	Interval repeat play	5, 10, 15 is displayed. (choose repeat time 5 times, 10 times, 15 times)
	Cancel interval repeat play	OFF is displayed.

- On completion, press MENU twice to exit the menu.
- 7 To select interval during playback, press the INPUT/REPEAT button at the desired start point.

Result: "INTERVAL REPEAT SETTING" is displayed.
Press the INPUT/REPEAT button one more time at the desired end point.

<u>result:</u>
The tape is automatically rewound to the start point.

"INTERVAL REPEAT" is displayed.





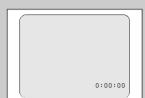


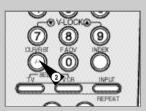
INDEX SEARCH: ▶ +01

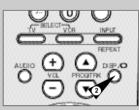
INDEX: 44 N

Using the Tape Counter









The tape counter:

- Indicates the elapsed time in the play and record modes (hours, minutes and seconds)
- ♦ Is reset when a cassette is inserted in the VCR
- ♦ Allows you to find the beginning of a sequence easily



If the remaining time is to be calculated correctly, you must indicate the type of cassette being used.

- 1 Insert a cassette in your VCR.
- 2 To set the tape counter to zero at the beginning of a sequence:
 - ◆ Press DISP./□ twice to display the counter
 - Press CLR/RST when you want to set the tape counter to zero
- 3 When you are ready,
 - Start playback or Recording.
 - Press the button.



Some VCR information, such as the counter, can be displayed on the television screen (unless you have deactivated the OSD mode; refer to page 14).

Press DISP./ ::

- Once to display the current function, programme number, recording speed, date, time and counter
- Twice to display the counter only
- ◆ Three times to display the time remaining on the cassette
- ◆ Four times to clear the display

Connecting an RCA Audio/Video Input Cable

You can connect other audio/video equipment to your VCR using audio/video cables if the appropriate outputs are available on the equipment chosen.

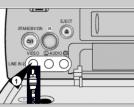
<u>Examples</u>: ◆ You wish to copy a video cassette with the help of a second VCR (see page 34).

- ♦ You wish to play back and/or copy pictures taken with a camcorder (see page 34).
- You wish to dub a prerecorded video cassette with sound from a stereo system (see page 35).



- Regardless of the type of connection chosen, you must always connect the coaxial cable supplied.
 Otherwise, no picture will be visible on the screen when the VCR is switched off.
- Make sure that both the television and the VCR are switched off before connecting the cables.
- 1 Connect one end of the RCA audio/video cable into the VIDEO INPUT socket on the front of the VCR.
- Plug the other end of the audio/video cable into the appropriate output connector on the other system (VCR or camcorder).
- Connect one end of the RCA audio cable supplied into the AUDIO INPUT sockets on the front of the VCR.
 - Take care to respect the colour coding of the left and right channels.
- Plug the other end of the audio cable into the appropriate output connectors on the other system (VCR, camcorder or Hi-Fi sound system).





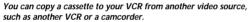




This function allows you to start a new recording at a specific position on the cassette while maintaining a very smooth scene change.

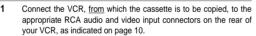
- 1 Insert the cassette to be edited in your VCR.
- 2 Press the ►II button to start playback.
- When you reach the position from which you wish to start the new recording, press the ►II button.
- 4 Press the F.ADV (button again as often as necessary to advance frame by frame, until the exact recording position is located.
- While the VCR is in still mode, hold the REC button down for a while to activate the Assemble Edit function.
- Result: Record symbol flashes in the display
- 6 Select the source from which you wish to record by pressing:
 - The PROG/TRK (▲ or ▼) buttons for television channels
 - The INPUT button for the LINE IN 1 or LINE IN 2 input sources
- 7 Press the ►II button to start recording.
- 8 When you have finished recording, press ■

Recording from Another VCR or Camcorder





It is an infringement of copyright laws to copy prerecorded cassettes or to re-record them in any form without the permission of the owners of the corresponding copyright.



You can also use an RCA audio and video cable to connect the LINE IN 2 input on the front of your VCR.

- 2 Insert a blank cassette in your VCR.
- 3 Insert the pre-recorded cassette in the other video source (VCR or camcorder).
- 4 Press the INPUT button to select the appropriate input on your VCR.
 - ◆ LINE IN 1 for the rear input
 - ◆ LINE IN 2 for the front input
- 5 Start playing back the cassette to be copied.
- 6 Hold REC down for a while to start recording on your VCR.
- 7 When you have finished recording, press on both VCRs.



If you wish to view the cassette being copied:

 Your VCR must be connected as usual to the television (see page 9 for further details)

Audio Dubbing a Pre-recorded Cassette

With the Audio Dubbing function, you erase the previously recorded sound and replace it with a new soundtrack from:

- ♦ A CD player
- ♦ A microphone connected to a sound system
- ♦ A cassette player

Restriction:

Audio dubbing is applicable only to the longitudinal audio track (normal audio).

- 1 Connect an RCA audio cable to the appropriate output on your sound system (CD/cassette player for example).
- 2 Connect the other end of the RCA audio cable to the audio input connectors (L, R) on the front of your VCR.
- 3 Insert the pre-recorded cassette on which the audio track is to be replaced, and press the ►II to start playback.
- 4 Find the scene that you want to over-dub and press ►II on the remote control
- Press DUB.

Result: Your VCR is now in the Audio dubbing Pause mode.

6 On the sound system, locate the point on the CD or cassette at which you wish to start playback.

Example: The track that you wish to record on the cassette

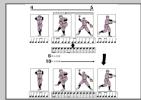
- 7 When you are ready:
 - Start playback on the sound system
 - Press REC on the remote control.

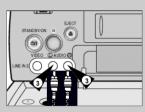
Result: The soundtrack is replaced on the pre-recorded cassette



The new sound will be recorded on the normal sound track of the tape, and the original sound will remain on the Hi-Fi sound track.

To hear the new sound and original sound mixed together, press the Audio button on the remote control until the MIX option is displayed (see page 28).









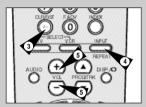


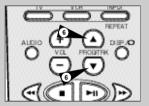


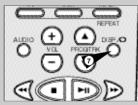












Your VCR remote control will work with Samsung televisions and compatible brands.

To determine whether your television is compatible, follow the instructions below.

- Switch your television on.
- 2 Point the remote control towards the television.
- 3 Hold down the TV button and enter the two-figure code corresponding to the brand of your television, by pressing the appropriate numeric buttons.

Brand	Codes	Brand	Codes			
SAMSUNG	01 to 06	PHILIPS	02, 20, 22			
AKAI	09, 23	SABA	13, 14, 22 to 24			
GRUNDIG	09, 17, 21	SONY	15, 16			
LOEWE	02	THOMSON	13, 14, 24			
PANASONIC	08, 23 to 27	TOSHIBA	07, 16 to 19, 21			

esult: If your television is compatible with the remote control, it will switch off. It is now programmed to operate with the remote control.

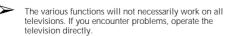
If several codes are indicated for your television brand, try each one in turn until you find one that works.



When you change the batteries in the remote control, you must reprogramme the code, following the same procedure.

You can then control the television using the following buttons.

Button	Function						
TV STANDBY/ON ①	Used to switch the television on and off.						
TV or VCR ②	Used to switch between the TV and VCR modes. Only the VOL $(+\ {\rm or}\ -)$ and TV STANDBY/ON buttons are operational in VCRmode.						
-/ ③	Used to enter a two-figure programme number. <u>Example</u> : For programme 12, press -/ followed by numeric buttons 1 and 2.						
INPUT ④	Used to select an external source.						
VOL + or - ⑤	Used to adjust the volume of the television.						
PROG/TRK (♠ or ▼)	Used to select the required programme.						
DISP./ ©	Used to switch between an external source and the television tuner.						

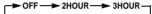


Auto Power Off

The Auto Power Off feature automatically turns off your VCR if no signal is received and you do not press any button for the selected time.

- 1 Press MENU on the remote control.

 Result: The programming menu is displayed.
- Press the corresponding ▲ , ▼ or ◄, ▶ buttons to select the EASY OPERATION option.
- Press the OK button to select this option.
 Result: The EASY OPERATION menu is displayed.
- 4 Press the corresponding ▲ or ▼ buttons, until the AUTO POWER OFF option is selected.
- 5 Press the ▶ button, until you select the time of Auto Power off interval.



6 On completion, press MENU twice to exit the menu.





ECO Mode-Reducing Standby power consumption

Low Power Mode reduces the Standby power consumption of the VCR when in Standby mode.

Useful, for example, when you are away from the house on holiday. It saves actually turning the VCR off.

- 1 Press MENU on the remote control.

 Result: The programming menu is displayed.
- Press the corresponding ▲, ▼ or ◄, ▶ buttons to select the USER SET option.
- 3 Press the OK button to select this option.
 Result: The USER SET menu is displayed.
- Press the corresponding ▲ or ▼ buttons, until the ECO. MODE is selected.
- 5 Press the ▶ button to turn LOW(3Watts) mode on. Now, when the VCR is standby mode the front display panel will shut off. Even the clock disappears. By pressing the VCR STANDBY/ON button again the display panel will reappear.
- 6 On completion, press MENU twice to exit the menu.







Design and specifications are subject to change without notice.

VHS PAL standard Video: 4 rotary heads Hi-Fi audio: 2 rotary heads Audio/Control: 1 stationary head							
Erase: 1 full track erase nead VHF-I, VHF-III, UHF, Interband/Hyperband STANDARD I/I-B/G-D/K, A2 NICAM FM azimuth recording PAL/MESECAM/NTSC: Down converted subcarrier phase shifted direct recording							
NTSC PB on PAL TV <pal mesecam=""> SP 23.39 mm/sec LP 11.69 mm/sec</pal>	<ntsc> SP 33.35 mm/sec SLP 11.12 mm/sec</ntsc>						
SP 3 hours (E-180 Tape) LP 6 hours (E-180 Tape) About 60 sec in REW with E-180							
0.5 to 2.0 Vp-p; 75 ohm unbalanced 1.0 ± 0.2 Vp-p; 75 ohm unbalanced Better than 43 dB (SP) More than 240 lines (SP)							
-8 dBm, 47 Kohm unbalanced -8 ± 3 dBm, 1 Kohm unbalanced 0.4% max (SP) 68 dB min (IHF A filter) 20Hz - 20kHz							
AC 100-240V 50/60 Hz Approx. 17 watts 41°F-104°F (5°C-40°C) 10%-75% 2.8 Kg (net) 360 x 94 x 240 mm							
	Video: 4 rotary heads Hi-Fi audio: 2 rotary heads Audio/Control: 1 stationary head Erase: 1 full track erase head VHF-I, VHF-III, UHF, Interband/Hypei STANDARD I/I-B/G-D/K, A2 NICAM FM azimuth recording PAL/MESECAM/NTSC: Down converting tree trecord NTSC PB on PAL TV «PAL/MESECAM/NTSC: Down converting tree tree tree tree tree tree tree tre						

Problems and Solutions



Before contacting the Samsung after-sales service, perform the following simple checks.

Problem	Explanation/Solution						
No power	 Check that the power plug is connected to a wall outlet. Have you pressed the VCR STANDBY/ON button? 						
You cannot insert a video cassette	 A video cassette can only be inserted with the window side up and the safety tab facing you. 						
The television programme was not recorded	 Check the VCR aerial connections. Is the VCR tuner properly set? Check if the safety tab is intact on the cassette. 						
Timer recording was unsuccessful	Was the VCR STANDBY/ON button pressed to activate the timer? Re-check the recording start/stop time settings. If there was a power failure or interruption during timer recording, the recording will have been cancelled.						
No playback picture or the picture is distorted	Check to see if you are using a prerecorded tape.						
You cannot see normal broadcasts	◆ Check the TUNER/EXTERNAL setting. It should be on TUNER. ◆ Check the TV/VCR aerial connections.						
Noise bars or streaks on playback	 ◆ Press the PROG/TRK (▲ or ▼) buttons to minimize this effect. 						
When the ►II button is pressed during playback, the still picture has severe "noise bars" streaks	 A still picture may have "noise bars", depending on the condition of the tape. Press the PROG/TRK (▲ or ▼) buttons during SLOW motion to minimize this effect. 						
Video Head Cleaning	◆ If poor pictures appear on a variety of cassettes, the video heads may need cleaning. This is not a common problem and unless it appears, the heads should not be cleaned. When cleaning the video heads, read all instructions provided with the head cleaning cassette. Incorrect head cleaning can permanently damage the video heads.						
If when tuning in your TV to the VCR test pattern your TV does not find the test pattern or the pattern when found suffers from interference, it may be due to the VCR output channel clashing with the normal TV transmissions in your area. To prevent this you will need to change the VCR output channel in the following way	1. Remove the aerial input plug from the socket marked (aerial symbol) on the rear of the VCR. 2. Carry out the instructions "Tuning Your Television for the VCR" (see page 12). 3. Carry out the instructions "Setting the VCR output Channel" (see page 15), move the channel number several channels down from the original setting. (example:from 36 to 33). 4. Replace the aerial plug into the socket marked (aerial symbol) on the rear of the VCR. 5. Re-tune your TV to the VCR again by following instructions "Tuning Your Television for the VCR" (page 12). 6. If the problem still exists repeat steps 1 to 5 moving several more channels away from the original setting.						

If you are unable to solve the problem after reading the above instructions, note:

- ◆ The model and serial number on the rear of your VCR
- ♦ The warranty information
- ◆ A clear description of the problem

Then contact your nearest SAMSUNG after-sales service.

TV Frequency Table (System B/G-D/K-I)

002~012 :CCIR STD VHF 013~020 :ITALY 021~069 :CCIR STD UHF 071~075 :CCIR CABLE 201~241 :CCIR STD CABLE

244~250 :MOROCCO 251~255 :BELGUIM

DOZ E02	201~241 :CCIR STD CABLE														
003 E03 V-L 55.25 CCIR 061 E61 UHF 791.25 CCIR 152 02 V-L 60.25 Ango 005 E05 V-H 175.25 CCIR 063 E63 UHF 799.25 CCIR 153 03 V-L 60.25 Ango 005 E05 V-H 175.25 CCIR 064 E64 UHF 807.25 CCIR 154 04 V-H 175.25 SCIR 065 E65 UHF 807.25 CCIR 155 05 V-H 183.25 S/AII 007 E07 V-H 189.25 CCIR 065 E65 UHF 807.25 CCIR 156 06 V-H 183.25 S/AII 009 E09 U-H 203.25 CCIR 065 E65 UHF 832.25 CCIR 156 06 V-H 191.25 S/AII 010 U-H 210.25 CCIR 066 E66 UHF 831.25 CCIR 156 06 V-H 191.25 S/AII 010 U-H 210.25 CCIR 066 E66 UHF 839.25 CCIR 156 06 V-H 191.25 S/AII 010 U-H 217.25 CCIR 068 E68 UHF 839.25 CCIR 159 09 V-H 215.25 S/AII 011 U-H 217.25 CCIR 069 E69 UHF 885.25 CCIR 161 U-H 217.25 S/AII 013 A V-L 69.25 CCIR 161 U-H 217.25 S/AII 013 A V-L 69.25 CCIR 161 U-H 217.25 S/AII 015 U-H 217.25 Italy 073 Z V-L 83.25 CCIR 161 U-H 217.25 S/AII 015 U-H 217.25 Italy 073 Z V-L 83.25 CCIR 161 U-H 217.25 U-	DISP	СН	Band	Fp	STD	DISP	СН	Band	Fp	STD	DISP	СН	Band	Fp	STD
DOB E04 V-L 62.25 CCIR DOS E63 LHF 799.25 CCIR 153 DOS V-L 175.25 SAM DOS E06 V-H 182.25 CCIR DOS E65 U-HF 872.25 CCIR 155 DOS V-H 183.25 SAM DOS E06 V-H 182.25 CCIR DOS E65 U-HF 832.25 CCIR 156 DOS V-H 191.25 SAM DOS E06 V-H 192.25 CCIR DOS E65 U-HF 832.25 CCIR 156 DOS V-H 191.25 SAM DOS E06 V-H 192.25 CCIR DOS E65 U-HF 832.25 CCIR 157 O7 V-H 199.25 SAM DOS V-H 203.25 CCIR DOS E65 U-HF 839.25 CCIR 157 O7 V-H 199.25 SAM DOS V-H 203.25 CCIR DOS DOS	002	E02	V-L	48.25	CCIR	060	E60	UHF	783.25	CCIR	151	01	V-L	43.25	Angola
DOB E05 V-H 175.25 CCIR D064 E64 U-H 815.25 CCIR D065 E65 U-H E05.25 CCIR D065 U-H E05.25 E05.	003	E03				061	E61	UHF	791.25	CCIR	152	02	V-L	52.25	Angola
DOB E06 V-H 182.25 CCIR DOS E65 U-HF 831.25 CCIR 155 DOS V-H 183.25 SVAN DOS E08 U-H PR 203.25 CCIR 156 DOS V-H 191.25 SVAN DOS E09 V-H 192.25 CCIR DOS E05 U-HF 831.25 CCIR 156 DOS V-H 191.25 SVAN DOS E09 V-H 203.25 CCIR DOS E05 U-HF 831.25 CCIR 157 O7 V-H 199.25 SVAN DOS U-H 207.25 CCIR DOS DOS U-H 207.25 SVAN DOS U-H 207.25 CCIR DOS E05 U-HF 839.25 CCIR 158 DOS V-H 207.25 SVAN DOS U-H 207.25 CCIR DOS E05 U-HF 839.25 CCIR 158 DOS V-H 207.25 SVAN DOS U-H 207.25 DOS U-H 20															Angola
DOT EOT V-H 189.25 CCIR OSS ESS U-HF 83.25 CCIR CCIR 156 OS V-H 191.25 S/Ah															S/Afri
DOB E08 V-H 196.25 CCIR O66 E66 U-HF 831.25 CCIR 157 O7 V-H 199.25 S/AH O10 E10 V-H 210.25 CCIR O67 E67 U-HF 839.25 CCIR 158 O8 V-H 207.25 S/AH O11 E11 V-H 217.25 CCIR O68 E68 U-HF 837.25 CCIR 158 O8 V-H 227.25 S/AH O11 E11 V-H 217.25 CCIR O68 E68 U-HF 837.25 CCIR 169 O9 V-H 215.25 S/AH O12 E12 V-H 224.25 CCIR O71 X V-L O92.25 CCIR 160 10 V-H 223.25 S/AH O13 A V-L S3.75 Italy O72 Y V-L O92.25 CCIR 160 10 V-H 223.25 S/AH O14 A V-L S3.75 Italy O73 Z V-L S3.25 CCIR CCIR 162 13 V-H 247.45 S/AH O14 B-V S/AH O15 CCIR O16 C-V-L 82.25 Italy O74 Z+1 V-L O92.25 CCIR CCIR O16 C-V-L S2.25 Italy O75 Z+2 V-L O72.25 CCIR CCIR O20 R3 V-L O75.25 OIR O16 C-V-L S2.25 Italy O17 S-V-L O72.25 CCIR CCIR CCIR O16 C-V-L O72.25 CCIR O16 C-V-L O72.25 CCIR O75 CCI															
DOB E09 V-H 203.25															
101 121 V-H 217.25															
D11 E11 V-H 217.25															
014 B															
D15 C	_														
1016 C															
D16															
D17 E															OIRT
D18															OIRT
019 G												R5			OIRT
D20															OIRT
D21 E21											207	R7	V-H	183.25	OIRT
D23 E23	021	E21	UHF			105	S05	V-L	133.25	CCIR	208	R8	V-H	191.25	OIRT
D24 E24	022	E22	UHF	479.25	CCIR	106	S06	V-L	140.25	CCIR	209	R9	V-H	199.25	OIRT
D25 E25	023	E23	UHF	487.25	CCIR	107	S07	V-H	147.25	CCIR	210	R10	V-H	207.25	OIRT
D26 E26	024	E24	UHF	495.25	CCIR	108	S08	V-H	154.25	CCIR	211	R11	V-H	215.25	OIRT
D27 E27	025	E25	UHF	503.25	CCIR	109	S09	V-H	161.25	CCIR	212	R12	V-H	223.25	OIRT
1028 E28	026	E26	UHF	511.25	CCIR	110	S10	V-H	168.25	CCIR	244	M4	V-H	163.25	Morocco
13	027			519.25							245	M5		171.25	Morocco
030 E30 UHF 543.25 CCIR 114 S14 V-H 252.25 CCIR 248 M8 V-H 195.25 Moroco Moroco															Morocco
031 031 031 031 032 032 032 033 033 033 045 0567.25 0CIR 116 036 074															Morocco
032 E32 UHF 559.25 CCIR 116 S16 V-H 266.25 CCIR 250 M10 V-H 211.25 Moroco M10 M17 M1															Morocco
033 E33 UHF 567.25 CCIR 117 S17 V-H 273.25 CCIR 251 U1 V-H 226.25 Belgu 036 E35 UHF 583.25 CCIR 119 S19 V-H 280.25 CCIR 252 U2 V-H 234.25 Belgu 036 E36 UHF 591.25 CCIR 120 S20 V-H 294.25 CCIR 253 U3 V-H 242.25 Belgu 037 E37 UHF 599.25 CCIR 120 S20 V-H 294.25 CCIR 254 U4 V-H 250.25 Belgu 038 E38 UHF 607.25 CCIR 121 S21 V-H 303.25 CCIR 255 U5 V-H 250.25 Belgu 039 E39 UHF 615.25 CCIR 122 S22 V-H 311.25 CCIR 255 U5 V-H 258.25 Belgu 040 E40 UHF 631.25 CCIR 124 S24 V-H 319.25 CCIR 042 E42 UHF 639.25 CCIR 126 S26 V-H 335.25 CCIR 042 E42 UHF 639.25 CCIR 126 S26 V-H 335.25 CCIR 045 E44 UHF 647.25 CCIR 128 S28 V-H 351.25 CCIR 045 E45 UHF 663.25 CCIR 128 S28 V-H 351.25 CCIR 045 E45 UHF 663.25 CCIR 128 S28 V-H 351.25 CCIR 046 E46 UHF 665.25 CCIR 129 S29 V-H 367.25 CCIR 046 E46 UHF 667.25 CCIR 130 S30 V-H 375.25 CCIR 049 E49 UHF 669.25 CCIR 131 S31 V-H 383.25 CCIR 049 E49 UHF 669.25 CCIR 131 S31 V-H 383.25 CCIR 049 E49 UHF 669.25 CCIR 131 S31 V-H 383.25 CCIR 049 E49 UHF 669.25 CCIR 131 S31 V-H 383.25 CCIR 051 E51 UHF 703.25 CCIR 134 S34 V-H 407.25 CCIR 051 E51 UHF 711.25 CCIR 136 S36 V-H 407.25 CCIR 052 E55 UHF 719.25 CCIR 136 S36 V-H 429.25 CCIR 052 E55 UHF 719.25 CCIR 138 S38 UHF 439.25 CCIR 053 E53 UHF 735.25 CCIR 138 S38 UHF 439.25 CCIR 054 E55 UHF 743.25 CCIR 139 S39 UHF 447.25 CCIR 054 E55 UHF 743.25 CCIR 139 S39 UHF 447.25 CCIR 054 E55 UHF 743.25 CCIR 139 S39 UHF 447.25 CCIR 147.25 CCIR 147.25 CCIR 147.25 CCIR 147.25 CCIR 147.25															Morocco
035 E34 UHF 575.25 CCIR 118 S18 V-H 280.25 CCIR 252 U2 V-H 234.25 Belgu 036 E36 UHF 591.25 CCIR 120 S20 V-H 287.25 CCIR 253 U3 V-H 242.25 Belgu 037 E37 UHF 599.25 CCIR 121 S21 V-H 303.25 CCIR 255 U4 V-H 250.25 Belgu 038 E38 UHF 607.25 CCIR 122 S22 V-H 311.25 CCIR 255 U5 V-H 258.25 Belgu 039 E39 UHF 615.25 CCIR 122 S22 V-H 311.25 CCIR 255 U5 V-H 258.25 Belgu 040 E40 UHF 623.25 CCIR 124 S24 V-H 319.25 CCIR 041 E41 UHF 631.25 CCIR 125 S25 V-H 319.25 CCIR 042 E42 UHF 639.25 CCIR 126 S26 V-H 343.25 CCIR 043 E43 UHF 647.25 CCIR 126 S26 V-H 343.25 CCIR 045 E45 UHF 663.25 CCIR 128 S28 V-H 351.25 CCIR 046 E46 UHF 663.25 CCIR 129 S29 V-H 367.25 CCIR 047 E47 UHF 6679.25 CCIR 130 S30 V-H 375.25 CCIR 048 E48 UHF 667.25 CCIR 131 S31 V-H 383.25 CCIR 049 E49 UHF 669.25 CCIR 131 S31 V-H 383.25 CCIR 049 E49 UHF 669.25 CCIR 131 S31 V-H 383.25 CCIR 049 E49 UHF 669.25 CCIR 131 S31 V-H 389.25 CCIR 049 E49 UHF 669.25 CCIR 131 S31 V-H 389.25 CCIR 049 E49 UHF 669.25 CCIR 134 S34 V-H 407.25 CCIR 050 E50 UHF 703.25 CCIR 134 S34 V-H 407.25 CCIR 051 E51 UHF 719.25 CCIR 136 S30 V-H 415.25 CCIR 052 E52 UHF 719.25 CCIR 136 S30 V-H 415.25 CCIR 052 E52 UHF 719.25 CCIR 137 S37 UHF 431.25 CCIR 054 E54 UHF 735.25 CCIR 138 S38 UHF 439.25 CCIR 054 E54 UHF 735.25 CCIR 138 S38 UHF 439.25 CCIR 054 UHF 743.25 CCIR 138 S38 UHF 439.25 CCIR 054 UHF 743.25 CCIR 138 S38 UHF 439.25 CCIR 147.25 CCIR 147.2															Morocco
035 E35															Belguim
036 E36 UHF 591.25 CCIR 120 S20 V-H 294.25 CCIR 254 U4 V-H 250.25 Belgu 037 E37 UHF 599.25 CCIR 121 S21 V-H 303.25 CCIR 255 U5 V-H 258.25 Belgu 038 E38 UHF 607.25 CCIR 122 S22 V-H 303.25 CCIR 255 U5 V-H 258.25 Belgu 039 E39 UHF 615.25 CCIR 122 S23 V-H 319.25 CCIR 040 E40 UHF 633.25 CCIR 124 S24 V-H 339.25 CCIR 041 E41 UHF 631.25 CCIR 125 S25 V-H 335.25 CCIR 042 E42 UHF 639.25 CCIR 126 S26 V-H 334.25 CCIR 043 E43 UHF 647.25 CCIR 128 S28 V-H 359.25 CCIR 045 E45 UHF 665.25 CCIR 128 S28 V-H 359.25 CCIR 045 E45 UHF 665.25 CCIR 128 S28 V-H 359.25 CCIR 046 E46 UHF 671.25 CCIR 130 S30 V-H 375.25 CCIR 046 E46 UHF 679.25 CCIR 130 S30 V-H 375.25 CCIR 049 E49 UHF 687.25 CCIR 131 S31 V-H 383.25 CCIR 049 E49 UHF 687.25 CCIR 131 S31 V-H 383.25 CCIR 049 E49 UHF 695.25 CCIR 131 S31 V-H 383.25 CCIR 050 E50 UHF 703.25 CCIR 134 S34 V-H 407.25 CCIR 051 E51 UHF 771.25 CCIR 136 S36 V-H 415.25 CCIR 051 E51 UHF 773.25 CCIR 138 S38 V-H 413.25 CCIR 054 E54 UHF 773.25 CCIR 138 S38 UHF 439.25 CCIR 054 E54 UHF 773.25 CCIR 138 S38 UHF 439.25 CCIR 054 E54 UHF 773.25 CCIR 138 S38 UHF 447.25 CCIR 056 E55 UHF 773.25 CCIR 139 S39 UHF 447.25 CCIR 056 E55 UHF 773.25 CCIR 139 S39 UHF 447.25 CCIR 056 E55 UHF 773.25 CCIR 139 S39 UHF 447.25 CCIR 056 E55 UHF 773.25 CCIR 139 S39 UHF 447.25 CCIR 057 CCIR 057 CCIR 057 CCIR 057 CCIR 058 CC															
121 S21 V-H 303.25 CCIR 255 U-F V-H 258.25 Belgu															
038 E38 UHF 607.25 CCIR 122 S22 V-H 311.25 CCIR															
039 E39 UHF 615.25 CCIR 123 S23 V-H 319.25 CCIR											255	U5	V-H	258.25	Beiguim
040 E40 UHF 623.25 CCIR 124 S24 V-H 327.25 CCIR											-				
D41															-
042 E42 UHF 639.25 CCIR 126 S26 V-H 343.25 CCIR															-
043 E43 UHF 647.25 CCIR 127 S27 V-H 351.25 CCIR															+
D44															1
046 E45 UHF 663.25 CCIR 129 S29 V-H 367.25 CCIR															1
046 E46 UHF 671.25 CCIR 130 S30 V-H 375.25 CCIR															
048															
048 E48 UHF 687.25 CCIR 132 S32 V-H 391.25 CCIR 1049 E49 UHF 695.25 CCIR 133 S33 V-H 399.25 CCIR 1050 E50 UHF 703.25 CCIR 134 S34 V-H 407.25 CCIR 1051 E51 UHF 711.25 CCIR 135 S35 V-H 415.25 CCIR 1052 E52 UHF 719.25 CCIR 136 S36 V-H 443.25 CCIR 1054 E41 UHF 735.25 CCIR 137 S37 UHF 439.25 CCIR 1054 E44 439.25 CCIR 1054 E55 UHF 743.25 CCIR 138 S38 UHF 447.25 CCIR 1054 E44 E47.25 CCIR 1054 E47.25															1
049 E49 UHF 695.25 CCIR 133 S33 V-H 399.25 CCIR															1
D50 E50 UHF 703.25 CCIR 134 S34 V-H 407.25 CCIR CCIR D51 E51 UHF 711.25 CCIR 135 S35 V-H 415.25 CCIR D52 E52 UHF 719.25 CCIR 136 S36 V-H 423.25 CCIR D53 E53 UHF 727.25 CCIR 137 S37 UHF 431.25 CCIR D54 E54 UHF 735.25 CCIR 138 S38 UHF 439.25 CCIR D55 E55 UHF 743.25 CCIR 139 S39 UHF 447.25 CCIR D55 E55 UHF 743.25 CCIR 139 S39 UHF 447.25 CCIR D55 CCIR D56 CCIR															
052 E52 UHF 719.25 CCIR 136 S36 V-H 423.25 CCIR CCIR 137 S37 UHF 431.25 CCIR CCIR CCIR 138 S38 UHF 439.25 CCIR CCIR CCIR UHF 439.25 CCIR CC	050	E50	UHF	703.25	CCIR			V-H	407.25	CCIR					
053 E53 UHF 727.25 CCIR 137 S37 UHF 431.25 CCIR CCIR 054 E54 UHF 735.25 CCIR 138 S38 UHF 439.25 CCIR 055 E55 UHF 743.25 CCIR 139 S39 UHF 447.25 CCIR	051	E51	UHF	711.25	CCIR	135	S35	V-H	415.25	CCIR					
054 E54 UHF 735.25 CCIR 138 S38 UHF 439.25 CCIR 055 E55 UHF 743.25 CCIR 139 S39 UHF 447.25 CCIR	052	E52	UHF	719.25	CCIR	136	S36	V-H	423.25	CCIR					
055 E55 UHF 743.25 CCIR 139 S39 UHF 447.25 CCIR	053	E53	UHF	727.25	CCIR	137	S37	UHF	431.25	CCIR					
	054	E54	UHF	735.25	CCIR	138	S38	UHF	439.25	CCIR					
056 E56 UHF 751.25 CCIR 140 S40 UHF 455.25 CCIR															
057 E57 UHF 759.25 CCIR 141 S41 UHF 463.25 CCIR	057	E57		759.25					463.25	CCIR					
058 E58 UHF 767.25 CCIR 142 1A V-L 42.25 Indoesia															
059 E59 UHF 775.25 CCIR 143 01 V-L 45.25 Nez	059	E59	UHF	775.25	CCIR	143	01	V-L	45.25	Nez					

THIS APPLIANCE IS DISTRIBUTED BY



www.samsungvcr.com

AC68-01371A