# GoldStar

## VIDEO CASSETTE RECORDER OWNER'S MANUAL

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



MODEL : P23HW

**ENGLISH** 

### WELCOME TO GOLDSTAR

#### Thank you for buying this GoldStar video cassette recorder Model P23HW.

Before using your video recorder you need to be familiar with the names of some of the buttons on the remote control handset (see OPERATING THE VIDEO RECORDER, pages 5 to 7), and you need to set up the video recorder so that it can receive the TV stations in your area and so that your TV set can receive pictures from it (see pages 11 to 12).

#### Features

- HQ (High Quality) picture enhancement system that improves picture sharpness and detail
- Centre tape mechanism for high quality pictures
- Full function infra-red remote control handset
- Programmable 40 channel memory with voltage synthesised tuner
- ACMS (Automatic Channel Memory System) the channels will be preset and memorized automatically
- 8 event/1 month programmable timer
- Recording and playback for 16:9 Wide-screen format
- Double speed playback
- Auto Power on and Play
- Automatic Rewind

- Self diagnosis function
- Logic & Jet Search
- VISS VHS Index Search System
- Child Lock
- Auto Head Cleaner
- Still & Frame advance
- Real Time Counter & Remaining tape time display
- Quick Start function
- Digital Auto Tracking System
- NTSC playback function (only PAL TV)
- PAL B/G, SECAM D/K Dual System

### INSTALLATION

#### Power

This Video Recorder operates on a mains supply of 100-240V $^{\sim},$  50 Hz.

#### Service

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

#### Precautions

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

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

#### Moisture condensation

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

## CONDENSATION IS LIKELY TO OCCUR WHEN:

- The video recorder is moved from a cold room to a warm room or from outdoors to inside your home.
- A cold room is heated quickly.
- The humidity is very high.

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#### The Remote Control Handset

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

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

1 OPERATE

To switch the video recorder on and off.

- 2 CURSORS  $(\blacktriangle \lor \triangleleft \triangleright)$ 
  - ▲▼:● During OSD menu, for moving the cursor, selection bar up or down.
    - Switches one channel programme up or down.
    - During playback, tracking control.
    - During still playback, adjusting vertical tremble.
  - ♦ During OSD menu, for moving the cursor to the left or right.
    - Adjust the playback speed (see p 19).

The cursor " < " button can be used to clear a data.

#### 3 ок

- Confirms menu selection (see p 10).
- Calls the on screen display (see p 24).

#### 4 REWIND/REVIEW

To rewind the tape (see p 18).

To see reverse playback picture at high speed (see p 18).

#### 5 PLAY(X2)

To play the tape (see p 16). To play the tape at duble speed (see p 17).

#### 

To stop the tape.

#### 7 P/STILL

Switches to still picture (see p 19), during recording to pause (see p 20).

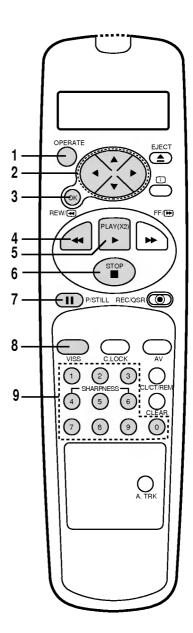
#### 8 VISS

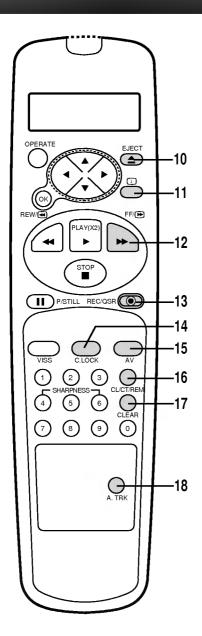
To activate the VISS (VHS INDEX SEARCH SYSTEM) (see p 26).

#### **9** NUMBER BUTTONS:

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

**NOTE:** The "4" and "6" buttons can be used to control the picture quality during playing back (see p 16).





#### **10** EJECT BUTTON

To eject a tape (see p 17).

**11** i

To display the on screen display (OSD) menu (see p 10). **12** FAST FORWARD/CUE

To wind the tape forward (see p 18).

To see forward playback picture at high speed (see p 18). **13** REC/QSR

Used to record and set the QSR (Quick Set Recording) time (see p 21).

#### 14 CHILD LOCK

To turn the CHILD LOCK function on/off (see p 27).

#### **15** AUDIO/VIDEO MODE

To select the input source of a recording (see  $\ensuremath{\mathsf{p}}$  7).

#### 16 CLOCK/TAPE COUNTER/TAPE REMAINING

To switch the display on the front panel of the video recorder between the current time, the tape counter and the amount of tape remaining (in hours and minutes) (see p 25).

This function will only operate when a tape is loaded.

#### 17 CLEAR

To reset the tape counter to zero (see p 25).

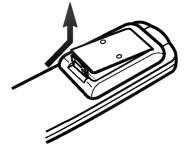
#### **18** AUTOMATIC TRACKING

To select automatic adjustment of the tracking (see p 25).

#### How to install batteries

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

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



### **OPERATING THE VIDEO RECORDER**

#### The front of the Video Recorder

#### **1** OPERATE BUTTON

To switch the video recorder on and off. **19** STOP/EJECT

To stop the tape, or eject it from the video recorder (see p 17).

20 VIDEO CASSETTE COMPARTMENT When a cassette is inserted loading is completed automatically. NOTE: Power is turned on automatically

when a video cassette is loaded. If the cassette has the record tab removed, the video will automatically begin to play the tape.

21 REMOTE CONTROL SENSOR

To receive the signals from the remote control handset.

#### 13 REC/QSR

- 5 PLAY (X2)
- 7 P/STILL
- 12 FAST FORWARD/CUE

#### 4 REWIND/REVIEW

22 CHANNEL PROGRAMME SELECTORS (+/-)

Allows you to scan through memorized channels.

**23** MULTI FUNCTION DISPLAY Display of time, tape counter, tape remaining or other information about the status of the video recorder.

#### The back of the Video Recorder

#### 24 MAINS LEAD

#### 25 AUDIO/VIDEO

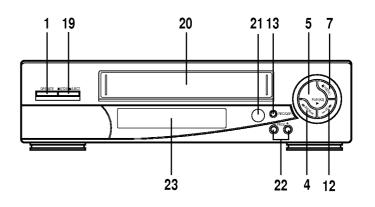
To connect the video recorder to your TV set or to another video recorder (see p 29). For recording from AUDIO/VIDEO select "AV" with the "AV" button (see p 20).

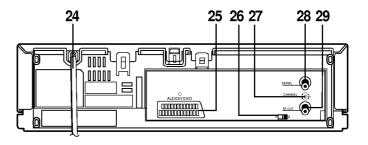
- 26 SYSTEM SELECT SWITCH (K & G) Set to the SECAM D/K(K) or PAL B/G(G) position, depending on the type of PAL colour system used for TV broadcasts in your area.
- **27 VIDEO CHANNEL CONTROL** To select the video channel between 30 and 40 (with a screw driver) (see p 9).
- **28** AERIAL INPUT

Connect the external aerial to this terminal.

29 RF. OUT

Connect this terminal to the AERIAL terminal on the back of the TV, using the coaxial RF cable (supplied).





### **INSTALLING YOUR VIDEO RECORDER**

#### Important !

#### BEFORE YOU USE YOUR VIDEO RECORDER <u>YOU</u> <u>MUST:</u>

- **1** Connect the video recorder to your TV aerial and TV set. (described later on this page).
- 2 Set the tuner channels so that the video recorder can receive TV signals (see p 11 to 12). When this has been done, the setting up of the video recorder is complete.

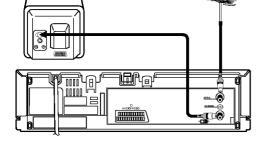
#### Connecting the video recorder to your TV

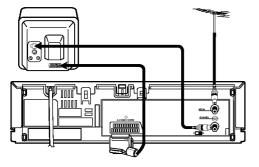
#### **AERIAL/RF CONNECTION**

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

#### **A/V CONNECTION**

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





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

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

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

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

## Setting the output channel of the video recorder

## SETTING THE VIDEO CHANNEL WITH PLAYBACK

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

## SETTING THE VIDEO CHANNEL WITH OSD (ON SCREEN DISPLAY)

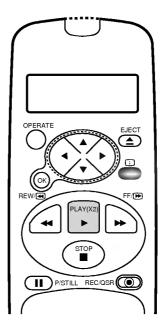
your TV set if you do not know how to do this.)

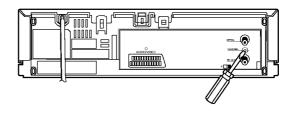
- **1** Turn on the TV set and the video recorder.
- 2 Press the "i" button on the remote control hand set.
- **3** Repeat above No. 4. And then you will see a blue background picture on the TV screen.
- 4 Store this channel in an unused programme number on your TV set.

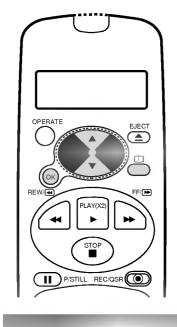
#### CHANGING THE TRANSMITTER CHANNEL

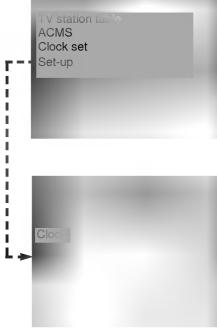
If channel 36 is already occupied at your TV set, or if the picture is distorted, you can change the transmitter channel of the video recorder.

Select an undistorted channel between 30 and 40 on your TV set and store it. Use a small screw driver to turn slowly the CHANNEL control on the rear of the video recorder, until you are satisfied with the picture quality.









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

#### The Main menu

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

**NOTE** - After using the menus press the "i" button to remove menus from the TV screen.

#### TIMER PROGRAMME

Used to record a programme with the timer (see p 22).

#### **TV STATION TABLE**

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

#### ACMS

Used for automatic setting of the TV stations (see p 11).

#### CLOCK SET

To set the clock manually (see p 15).

#### SET-UP

• SYSTEM (AUTO  $\rightarrow$  PAL  $\rightarrow$  MESECAM )

Select the colour system used for playback and recording (see p 19).

• 16:9

- To select the aspect ratio of your TV.
- "ON": for recording and playback with a 16:9 Widescreen format recording.
- "OFF": for recording and playback with a normal format, 4:3.
- "AUTO": for playing back wide-screen programmes as wide, normal programmes as normal (see p 28).

#### Important!

If you want to playback a 16:9 format with the NTSC tape, you should be set to "16:9 ON" mode.

OSD (On Screen Display)

Switches the on screen display OFF or ON (see p 24).

#### • TAPE SELECT

Used to select the tape length so that remaining tape time display is correct.

E180: Use for E-180, E-260 and E-300 tapes.

E240: Use for E-210 and E-240 tapes.

• LANGUAGE

Allows you to select the language of the on screen display. Select the language you prefer by pressing the"OK" button several times. You can select among English, German and Russian. Up to 40 TV stations (40 channels) can be stored in the memory of this video recorder. These can be set automatically or manually.

#### **Automatic tuning**

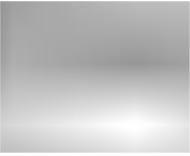
To carry out Automatic tuning:

- 1 Turn on the TV and the video recorder (with the "OPERATE" button).
- 2 Press the "i" button on the video recorder handset. The menu will appear on the TV screen.
- 3 Use the cursor  $\blacktriangle$  and  $\blacktriangledown$  buttons to select "ACMS ".
- 4 Press the "OK" button.
- 5 Press the "OK" button to start the automatic storing of the channels of the TV stations in your area.
- 6 Automatic channel tuning has been completed when the "TV station table" menu appears on the TV screen.
- 7 Press the "i" button to remove the menus from the TV screen.



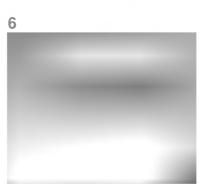


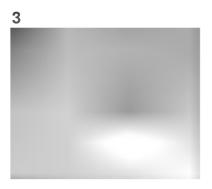
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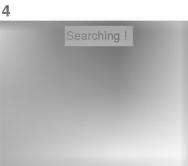
















#### Manual tuning

TV station Channel numbers and Station names can be stored manually.

To carry out manual tuning:

- 1 Press the "i" button on the video recorder handset. The menu will appear on the TV screen.
- 2 Use the cursor  $\mathbf{v}$  button to select "TV station table" and press the "OK" button.
- 3 Use the cursor  $\blacktriangle$  and  $\checkmark$  buttons to search the programme number that you want to tune and press the "OK" button.
- 4 Press the cursor **A** button to start manual station tuning.
  - Searching will stop when it locates a station.
  - To further stations, press the cursor  $\blacktriangle$  button.
  - If you want to stop the station search, press the "OK" • button.
- 5 Press the cursor ▶ button to input the station name manually.
  - 1) Enter the first letter of the station name by repeatedly pressing the cursor  $\blacktriangle$  and  $\checkmark$  buttons.
  - 2) Now move the cursor with the > to the next position and write in the next letter of the station name.
  - For corrections move back and forth with the 4 and ▶ buttons.
  - 3) When you have the station name as required press the "OK" button. The "TV station table" menu will be displayed.

Note: If you don't want to change the station name, press the "i" button instead of "OK" button.

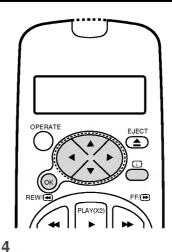
- 6 Store other stations, missing or incorrect station names using steps 3 to 5.
- 7 End the station storing by pressing the "i" button.
- 8 Press the "i" button to remove the menus from the TV screen.



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

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

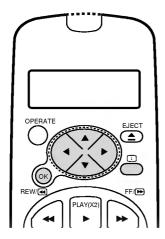
- **1** Press the "i" button on the video recorder handset. The menu will appear on the TV screen.
- 2 Select "TV station table" with the cursor  $\blacktriangle$  and  $\checkmark$  buttons and press the "OK" button.
- 3 Move the cursor down or up with the cursor ▲ and ▼ buttons to select the programme that you want to transfer to another position in the menu (for example "Pr No. 03").
- **4** Press the cursor **▶** button.
- **5** Use the number buttons to enter the programme number to which you wish to transfer the selected programme (for example Pr No. 04").
- 6 Press the "OK" button. The selected station will be moved to the new programme number.
- 7 Move other stations, if you wish, by repeating steps 3 to 6.
- 8 Press the "i" button to remove the menus from the TV screen.





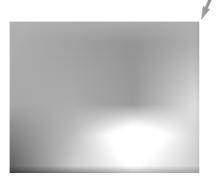












## Clearing stations from the "TV stations" menu

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

- **1** Press the "i" button on the video recorder handset. The Main menu will appear on the TV screen.
- 2 Select "TV station table" and press the "OK" button to select.
- 3 Move the cursor down or up with the cursor ▲ or ▼ button to select the programme that you want to clear. (for example station "Pr 03")
- 4 Press the " **◄**" button to delete. After a short while, the selected station will be cleared.
- **5** Clear other stations, if you wish, by repeating steps 3 and 4.
- 6 Press the "i" button to remove the menus from the TV screen.

#### **Fine tuning**

4

If the picture quality is poor, because TV reception is weak, it might be improved by manually tuning the video recorder as follows:

- 1 Press the "i" button on the video recorder handset. The Main menu will appear on the TV screen.
- 2 Select "TV station table" and press the "OK" button to select.
- 3 Move the cursor down or up with the cursor ▲ or ▼ button to select the programme that you want to fine tune.
  - Press the "OK" button.
- 5 Adjust for the best quality picture and sound with the cursor ◀ and ▶ buttons.
- 6 Press the "i" button twice to remove the menus from the TV screen.

#### Selecting stored TV stations

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

- 1 Use the  $\blacktriangle$  and  $\blacktriangledown$  buttons to move from one station to another.
- 2 Enter the programme number with the number buttons, to select a station directly. You can enter the stations 1 to 9 with the one digit only. The channel will be selected at once.

#### Setting the video recorder's clock

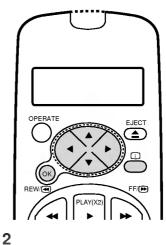
This video recorder is equipped with a built in clock which can be seen in the display at any time. After the first connection or after power failure you have to set in the following way:

- 1 Press the "i" button. The Main menu appears on the TV screen.
- 2 Select "Clock set" with the cursor  $\blacktriangle$  and  $\checkmark$  buttons.
- 3 Press the "OK" button.
- 4 Use the number buttons to enter or alter thHours, Minutes, Day, Month and Year (using the 24 hour clock). The day of the week will appear automatically when you have entered the date.

NOTE: Enter 1 as 01, 2 as 02 etc.

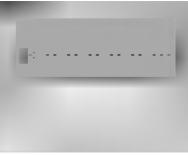
- $\bullet$  Correct errors during inputting with cursor  $\blacktriangleleft$  and  $\blacktriangleright$ buttons.
- 5 Press the "i" button to remove the menus from the TV screen.

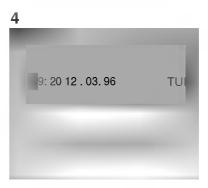
The set time will appear on the video recorder's Display.













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

#### Loading a video cassette

- **1** Turn on your TV set and video recorder.
- 2 Insert the cassette into the video recorder with the window side up and the arrow pointing away from you. Do not attempt to insert a cassette which is upside down or back to front.

#### GENTLY PRESS THE MIDDLE OF THE TAPE.

*Video cassette loaded indicator -* The  $\bigcirc \bigcirc$  symbol is shown on the video recorder's display when there is a video cassette loaded in the video recorder.

**Automatic switch - on -** The video recorder is automatically switched on when a video cassette is inserted.

It is not necessary to switch on the video recorder, by pressing the "OPERATE" button, before inserting a video cassette.

#### Normal playback

**1** Press the "PLAY ( $\times$ 2)" button to start playing a tape (called Normal playback). "PLAY" will appear for a few seconds on the TV screen.

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

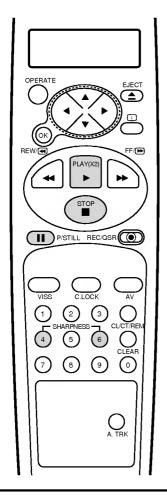
**Automatic playback** - If the video cassette has had its safety tab removed, so that it cannot be erased, then the video recorder will automatically start playing the tape.

- 2 Short interruptions of the playback up to 5 minutes can be made with the "P/STILL" button. Continue playback by pressing the "PLAY(X2)" button.
- **3** End the playback with STOP button.
  - If the end of the tape is reached, the video recorder stops automatically, rewinds, stops, ejects the tape and switched off.

#### Picture sharpness adjustment

During playback you can adjust the "sharpness" of the picture by pressing the number 4 and 6 buttons.





#### **Double speed playback**

- 1 Press the "PLAY  $(\times 2)$ " button during normal playback. The tape will play back at double speed and without sound.
- 2 Distortions in the picture can be eliminated by changing the tracking with the cursor "▲ and ▼" buttons.
- **3** Press the "PLAY (×2)" button to return to playback at normal speed
- 4 End the playback with "STOP" button.

#### Unloading a video cassette

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

The cassette compartment will open and the video cassette will be partially ejected.

"EJECT" will appear for a few seconds on the TV screen.

It is not necessary to switch on the video recorder, by pressing the "OPERATE" button before ejecting a video cassette.

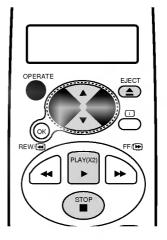
**NOTE** - It is advisable to remove a video cassette from the video recorder when not in use. Rewind and unload it.

#### Types of video cassette

Use VHS and tapes in this video recorder.

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

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





#### (PAL & MESECAM)

VIDEO CASSETTE LENGTH	MAXIMUM RECORD/ PLAYBACK TIME
	SP
E-240	240Min.
E-180	180Min.
E-120	120Min.
E-60	60Min.

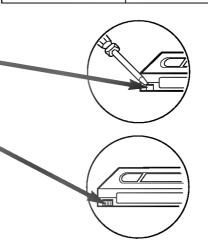
#### (NTSC)

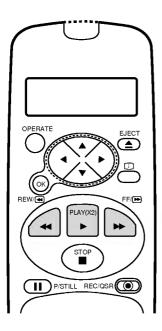
VIDEO CASSETTE LENGTH	MAXIMUM PLAYBACK TIME
T-160	160Min.
T-120	120Min.

**Accidental erasure prevention** - If you do not wish to record on a tape, and hence erase what is already recorded on it, then remove the safety tab on the back edge of the video cassette.

*Cover the hole with cellophane tape -* It is possible to record on a video cassette from which the safety tab has been removed by covering the hole with cellophane tape.

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





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

#### Fast forward (FF)

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

#### **Rewind (REW)**

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

#### **REMARK:**

Operating of the fast forward ("FF"), or rewind ("REW") for the first time after inserting the tape, the Video recorder takes about 20~30 seconds to check the remaining time of the tape, therefore it performs the fast forward ("FF"), or rewind ("REW") slowly for the first 20~30 seconds, then goes fast with full speed.

#### LOGIC search

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

#### Picture search - CUE & REVIEW

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

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

The tape will be played forward or backwards at about 7 times the normal playback speed. When the desired point on the tape has been reached press the "PLAY ( $\times$ 2)" button and the video recorder will continue to play back the tape at the normal speed.

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

#### **JET search**

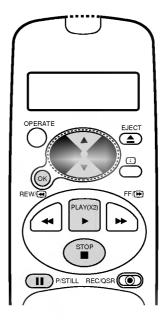
If during picture search you hold down either of the search buttons ("FF" or "REW") for more than 1 second the picture will be played at about 11 times the normal playback speed. When the desired point on the tape has been reached, release the search button and the video recorder will continue to playback the tape at the normal speed.

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

#### Still picture playback

You can playback and advance a still picture as follows:

- **1** Press the "P/STILL" button during playing back. You see a still picture on the TV screen.
- 2 You can remove the vertical tremble with the cursor "▲ and ▼" buttons.
- **3** You can advance the still picture by pressing the "P/STILL" button. By repeatedly pressing this button the picture advances one frame at a time.
- **4** To switch off the still picture, press the "PLAY (×2)", or the "STOP" buttons.



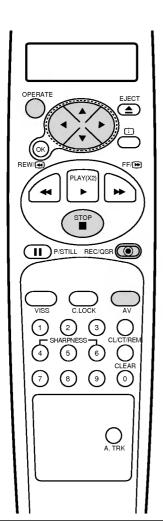
#### Selection of the colour system

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

You should select the colour system manually:

- **1** Press the "i" button.
- 2 Select the "Set-up" and press the "OK" button.
- **3** Select "System" with " $\blacktriangle$  and  $\checkmark$ " buttons.
- 4 Use the "OK" butten to switch between:
  - AUTO: automatic colour selection,
  - PAL: PAL recordings
  - MESECAM: Use for SECAM recordings
- **5** Press the "i" button to remove the menus from the TV screen.





#### Introduction to the recording features

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

- **1** You may record immediately, (a programme you may be watching), by turning the video recorder both on and off (see below).
- 2 You may record immediately for a set period of time of up to 9 hours. This is called Quick Set Recording (QSR). The video recorder will automatically turn itself off at the end of the QSR (see p 21).
- **3** You may record at a later time (up to 1 month from the present) using the built-in timer. Up to 8 of these automatic recordings may be set at the same time provided, of course, that there is sufficient time on the video cassette.
- **NOTE** Ensure that the safety tab has not been removed from the video cassette on which you wish to record.

#### To record

- **1** Switch on the TV set and video recorder.
- 2 Insert a video cassette with the window side up, and the arrow pointing away from you, or if a video cassette is already loaded switch on the video recorder by pressing the "OPERATE" button.
- 3 Select the programme channel with the number buttons or cursor "▲ and ▼" buttons.
- Press the "REC/QSR" button to start recording. "RECORD" will appear for a few seconds on the TV screen.

"MARK" will appear on the video recorder's display.

The recording is being marked by the VISS (VHS Index Search System) function. This will enable you to quickly find the recording at a later date.

- **5** If you want to avoid recording unwanted scenes press the "P/STILL" button. "RECP" will appear for a few seconds on the TV screen. To continue recording press the "P/STILL" button again.
- **6** Press the "STOP" button to stop recording. "STOP" will appear for a few seconds on the TV screen.

**NOTE** - If you want to record from the AUDIO/VIDEO socket on the back of the video recorder, press the "AV" button to the "AV" mode, as shown by the display on the video recorder's display.

## RECORDING ONE TV PROGRAMME WHILE WATCHING ANOTHER

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

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

#### Immediate timer (QSR)

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

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

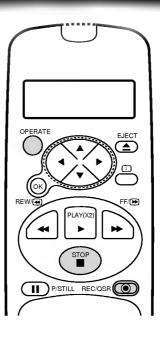
Each time you press this button the QSR time will be extended by 30 minutes. The maximum time that can be set is 9 hours.

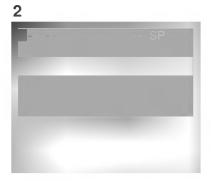
When the QSR recording have been completed, the video recorder will stop and switch itself off.

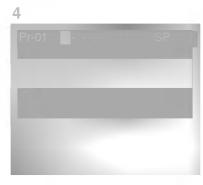
**3** To cancel a QSR recording, press the "STOP" or the "OPERATE" button.

#### Colour system

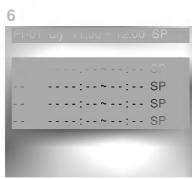
You can record in PAL and SECAM D/K system. As it was described before on page 19, in position "AUTO" the selection is done automatically in the video recorder.











## Recorder timer programming using the On Screen Displays

The timer allows you to recorder broadcasts automatically. Up to 8 recordings within one month can be programmed at the same time.

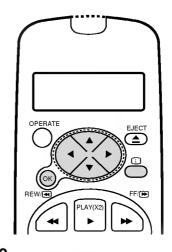
- 1 Press the "i" button, select "Timer programme" with the cursor "▲", "▼" buttons and press the "OK" button.
- **2** Press the "OK" button to enter the timer programming mode.
- 3 Select the programme number that you wish to record using the number buttons. Programme number and dates 1 must be entered as 01, 2 as 02 etc.
  - If you want to record from the AUDIO/VIDEO, press the "AV" button to "AV" .
- 4 Enter the day using the number buttons. If you want to change recording type:
  - 1) press the "OK" button.
  - Daily: for daily recordings from Monday to Friday.
  - Weekly (SUN to SAT): for a weekly repeated recording.
  - Select the recording type with the cursor "▲" and "▼" buttons and select it with the "OK" button.
- **5** Enter the start and end times using the number buttons.
  - For setting programme times you must use the 24 hour clock.
  - Errors can be corrected with the " ◄" and " ▶" buttons.
- 6 Finish your timer inputs with the "i" button. A menu of the timer programmes set into the video recorder will be displayed on the TV screen.
  - If "Please correct the data !" is displayed, you have entered a wrong data. Please correct the data.
- 7 Press the "i" button to remove the menus from the TV screen.
- 8 Make sure that there is a video cassette in the video recorder and turn the video recorder off with the "OPERATE" button.

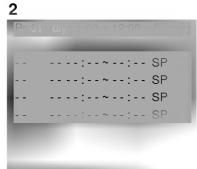
The timer set 🗾 symbol is shown on the video recorder.

## Checking and clearing stored timer programmes.

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

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

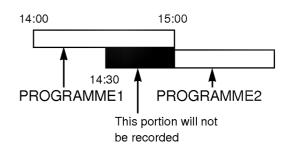




#### Overlapping timer programmes.

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

 ${\bf NOTE}$  - If you wish to stop a timer recording which has already been starting, press the "OPERATE" button on the front of the video.



### **OTHER FEATURES**

#### Introduction

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

The features described here are:

- **1** The On Screen Display of the time or tape remain or tape counter, date, programme channel and operation mode of the video recorder.
- **2** The Digital Tape Counter and Remaining Tape Time indicator.
- **3** The Memory Stop facility that can be used during rewind to stop the tape at a preset point.
- **4** The VISS (VHS Index Search System) to help you find the beginning of each recording on a video tape easily and quickly.
- 5 The tracking control that optimises the picture quality.
- **6** The Automatic Playback facility which plays back a tape, rewinds and ejects it and switches off the video recorder.
- 7 Automatic Memory Power Shut Off when a video cassette is rewound.
- **8** Automatic Switch Off when the TV station stops broadcasting.
- **9** A Child Lock facility so that the video recorder can be controlled only from the handset.

10

#### Video Programme System (VPS)

The Video Programme System (VPS) system ensures that the **VIDEO RECORDER** CHANNEL TV programmes that you have programmed for timer recording FUNCTION PROGRAMME will be recorded exactily from their beginning to end, eve if the actual broadcasting time differs from the scheduled time due to delayed start, or if the programme is extended beyond its STOP Pr-01 scheduled time. Also, if a programme is interrupted, for example, if a news flash is inserted, the recording will also be interrupted automatically and resumed when the prorgramme continues. The VPS signal is broadcast by the TV station and this controls the timer in the video recorder. VPS should be set ON for all timer recording from TV stations broadcasting these signals. It should be set OFF for all timer 19.03.95 SUN 11:00 recordings from TV stations that are not broadcadting these signals. The 16:9 wide-screen recording and playback. CLOCK/TAPE COUNTER/ DAY/MONTH/ 11 Self- diagnosis **REMAINING TAPE TIME** YEAR/DAY OF THE WEEK

## Digital Tape Counter/Remaining Tape Time

The Digital Tape Counter and Remaining Tape Time can be displayed on the video recorder's display instead of the time by repeatedly pressing the "CL/CT/REM" button.

The Digital Tape Counter gives you the relative positions of recordings on the tape. If you set the counter to 0:00:00 at the beginning of a tape, you can note the counter reading at the beginning of each separate recording.

To set the counter to 0:00:00 press the "CLEAR" button.

#### The memory stop facility

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

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

#### **Tracking Controls**

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

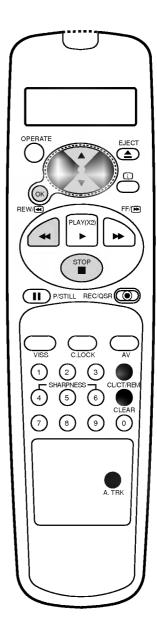
**Automatic tracking** - The automatic tracking adjusts the tracking to playback a tape with the optimum picture quality. As soon as you start to playback a tape the tracking will be adjusted if necessary.

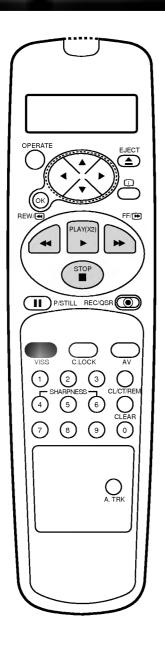
A.TRK is shown on the video recorder's display.

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

You can adjust the tracking during playback with the cursor " $\blacktriangle$ " and " $\blacktriangledown$ " buttons. Press them repeatedly until the distortions have been eliminated.

You can switch on the automatic tracking again after using the manual tracking feature by pressing the "A.TRK" button. When you change a video cassette, the automatic tracking will always be switched on again.





## The VHS Index Search System (VISS)

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

#### AUTOMATIC VISS MARKING

At the beginning of each recording, a VISS mark is recorded automatically on the tape. This is indicated by MARK appears on the video recorder's display.

#### **VISS SCANNING**

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

To carry out a VISS scan:

- 1 Insert the video cassette.
- **2** Whilst the video recorder is on stop press the "VISS" button.
- **3** Press the "FF" or "REW" button to fast forward or rewind the tape. "SCAN" is shown on the video recorder's display.
- 4 The tape winds on to the next VISS mark, switches to playback for a short time, so that you can view the tape at that point, and then winds on to the next VISS mark.
- **5** You can switch off the VISS scan at any time by pressing the "PLAY(X2)" button or "STOP" button.

#### **VISS SEARCHING**

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

To carry out a VISS search:

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

#### **Automatic Playback**

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

Automatic Playback carries out the following procedures: It automatically switches on the video recorder's power and starts to playback the tape.

At the end of the tape, it automatically rewinds.

The tape is ejected automatically.

The video recorder switches itself off.

#### **Automatic Memory Power Shut-Off**

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

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

Pressing any of the control buttons (e.g. "OPERATE" or "PLAY( $\times$ 2)") after setting Automatic Memory Power Shut Off will cancel it.

#### **Automatic Switch Off**

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

#### The Child Lock

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

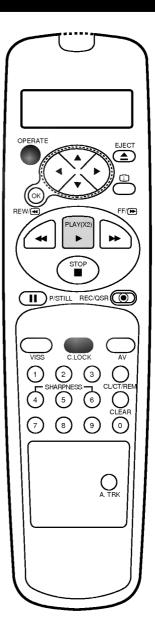
**1** Press the "C.LOCK" button. "LOCK ON" appears on the video recorder's Display.

The control buttons on the front of the video recorder are inoperative (except for STOP/EJECT"). The video recorder can be controlled only from the handset.

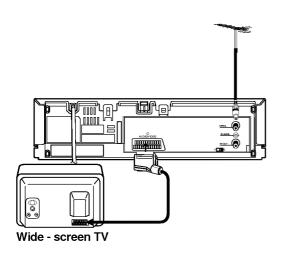
If any of the other controls on the video recorder are pressed "LOCK ON" appears on the video recorder's Display.

**2** To switch off the locking, press the "C.LOCK" button again.

"LOCK OFF" appears on the video recorder's Display.



### **OTHER FEATURES**



#### 16:9 Compatibility (Wide - screen TV)

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

Select the required position in the "Set-up" menu as descibed on page 10:

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

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



#### Self-Diagnosis

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

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

STATUS OF DISPLAY	SOLUTION
PROTECTED	Insert a cassette with it's safety intact.
SEE CABLE	Connect the video recorder to your TV aerial and TV set.
Dust on the Heads!	Try to clean the video head.

### **COPYING (RERECORDING)**

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

To do this you will need an EURO Scart cable.

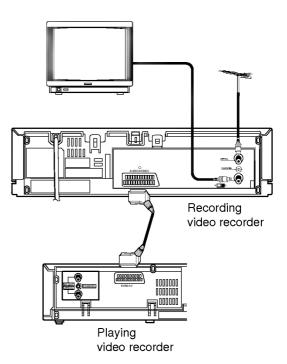
- **1** A second video recorder (for tape copying) should be connected to the AUDIO/VIDEO Scart socket on the back.
- **2** Insert an empty cassette into this video recorder and if you are copying another tape insert it into the second video recorder.
- **3** Set the "AV" mode for recording video recorder with the "AV" button on the remote control.

"AV" indicator will be displayed on the display.

- **4** Start the playback at the playing video recorder and then start the record with the REC/QSR button on the remote control or at the video recorder.
- 5 Short interruptions can be made with the P/STILL button on the video recorder, e.g. to cut scenes.To continue recording, press this button again.
- 6 End copying with the STOP button and turn all devices off.

#### COPYRIGHT LAW

Unauthorized recordings of copyrighted television programmes, films, video cassettes and other materials infringe the right of copyright owners and be contrary to copyright laws.



### SPECIFICATIONS

#### GENERAL

Power Power consumption Video recording system Tape speed Tape format Maximum recording time Rewind time Dimensions ( $W \times H \times D$ ) Weight Operating temperature Operating humidity Timer

#### VIDEO

Television system

Recording format RF reception RF OUT Input level

Output level

Signal to noise ratio RF modulator

#### AUDIO

Input level

Output level

Audio track Audio frequency response Audio signal to noise ratio 100-240V~, 50Hz.
Approx. 20 watts
2 Rotary heads, helical scanning system
23.39 mm/sec (SP mode)
Tape width 1/2" (12.7 mm high density VHS tape)
4 hours (with E-240 tape)
Less than 150 sec. (with E-180 tape)
14.2" × 3.5" × 11.7" (360 × 88 × 297 mm)
9.7lbs. (4.4 kg)
41°F-95°F (5°C-35°C)
Less than 80 %
24 hours display type

: CCIR standard (625 lines, 50 fields) PAL/SECAM colour signal : PAL/MESECAM : PAL/SECAM (B/G, D/K) : PAL G/SECAM K : VIDEO IN (Scart type) 1.0 Vp-p, 75 ohm, unbalanced : VIDEO OUT (Scart type) 1.0 Vp-p, 75 ohm, unbalanced : More than 43 dB : UHF channels 30-40 (adjustable) : AUDIO IN (Scart type) 0 dBm, more than 10 Kohm : AUDIO OUT (Scart type) 0dBm, less than 1 Kohm : Mono track : 100 Hz-10 kHz (-6/+3) : More than 43 dB

\* Design and specifications are subject to change without notice.

### **BEFORE CALLING FOR SERVICE** ...

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

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

#### **Video Head Cleaning**

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



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