Table of contents

1	Introduction :	Important notes for operation The most important functions of your new video recorder	Pag	e 5
		Important information for customers in Great Britain Preparing the remote control for operation		
		Connecting to a TV set with a scart socket	_	
2	Connecting the video recorder	Connecting to a TV set without a scart socket	. Pag	e 8
			_	
	video recorder	Setting TV channels, date and time for the first time Searching for TV channels manually	Page Page	
		· · · · · · · · · · · · · · · · · · ·	.Page	
40)	Initial installation		Page	
		Searching for TV channels automatically	Page	14
		Sorting and clearing of TV channels manually		
		Sorting of TV channels automatically (Follow TV)		
		Changing the time and date	_	
	Settings : 1	Navigation in the main menu	_	
		Playing cassettes		
		Playing back NTSC cassettes	.Page	19
	Operating	Selecting tape position display type		
-	instructions		.Page	
		Searching for tape position with picture (picture search)	Page Page	
	• • •		Page	
	•		Page	
	Playback	Still picture / slow motion	_	
	1 lay back		.Page	
	Removing picture interference	Optimizing tracking		
		Optimizing still picture		
		Starting and stopping of recording manually Starting recording manually and stopping automatically	_	
		Lining up manual recordings		
	Manual recording	Selecting the recording speed	_	
		Recording automatically from a satellite receiver		
		Activate / deactivate direct recording	_	
		Making a direct recording Programming timer with VIDEO Plus+	_	
	Programmed	Problem solving (VIDEO Plus-Programming)		
		Programming timer without VIDEO Plus+	_	
	recordings :"	Problem solving (Timer programming)	Page	37
		"Turbo Timer"-Recording	_	
		Problem solving (Turbo Timer programming)	_	
	Other	Delete / check / change programmed recordings	_	
		Adjusting the child lock		
	functions	Replaying cassette continuously	_	
	Suppressing interference	Changing the TV system	Page	43
		Adjusting the OSD information	_	
		Selecting the sound channel		
		Energy-saving mode		
		Using the TV remote control		
	Before you call :	Optimizing the modulator		
114	an engineer	Switching the modulator on / off	Page	49
	an chighleen	Problem solving	_	
		Technical data	Page	50



Remote control

You will find explanations for the controls and the displays on your video recorder on the second to last page of these operating instructions.

TURBO TIMER



SMART ☐ STANDBY/ON ७

CLEAR / CL

MONITOR

CHILD LOCK •••

SELECT

➤ Select picture adjustment

➤ Switch set on / off

➤ Interrupt function

Interrupt programmed recording

➤ Delete entry

➤ Delete programmed recording

➤ Select function

➤ Activate / deactivate child lock

➤ Change between TV reception and video recorder reception



0-9

TURBO TIMER

MENU OK

↑ P+ / ↓ P-

← /→

➤ Enter data

➤ Select programme number

➤ Programme Turbo Timer recordings

➤ Programme recordings

➤ Check / change recordings

➤ Delete recordings

➤ Switch main menu on / off

➤ Store

➤ Confirm

➤ Select next / previous menu point

➤ Select next / previous programme number

> Select entry field



TV functions

➤ Increase / reduce TV volume

➤ Switch sound on / off

➤ Switch TV on / off

➤ Select next / previous programme number



Accessories

- ✓ Operating instructions
- ✓ Quick Start Guide
- ✓ Remote control✓ Batteries
- ✔ Aerial cable

✓ Mains cable

⋖

TV / ひ

PLAY ►

 $\blacktriangleright \triangleright$

STOP ■
RECORD/OTR ●
INDEX ▶

STILL 🛏

➤ In STOP or STANDBY mode: Rewind

➤ In playback mode: Fast reverse

➤ Play back recorded cassette

➤ In STOP or STANDBY mode: Wind forward

➤ In playback mode: Fast forward

➤ Stop tape

> Starting recording manually

➤ With ◀ or ▶▷: Searching for index marking

➤ Stop tape and show still picture





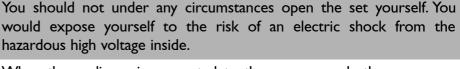
Welcome to the family of owners of Philips VHS video recorders.

Thank you for choosing to buy our product. Please wait at least three hours after transporting the appliance before starting installation. The set needs this time in order to become acclimatised to its new environment (temperature, air humidity, etc.).

Your Philips Team hopes that you will enjoy using your new video recorder.

This product complies with the requirements of Directive 73/23/EEC + 89/336/EEC + 93/68 EEC.

Important notes for operation



When the appliance is connected to the power supply, there are some components which are constantly operational. To switch off the video recorder completely, you must disconnect it from the power supply.

The video recorder does not contain any components that can be repaired by the customer.

Make sure that air can circulate freely through the ventilation slots on the video recorder.

Make sure that no objects or liquids enter the video recorder. If liquid is spilt into it, disconnect the video recorder immediately from the power supply and call the After Sales Service for advice.

The video recorder should not be used immediately after transportation from a cold to a hot area or vice versa, or in conditions of extreme humidity.

These operating instructions have been printed on non-polluting paper.

Please deposit old batteries at the relevant collection points.

Please make use of the facilities available in your country for disposing of the video recorder packaging in a way that helps to protect the environment.

This electronic device contains many materials which can be recycled. Please enquire about the possibilities for recycling your old set.







The most important functions of your new video recorder



Your Philips video recorder can be used, not only for recording and playing back VHS cassettes, but it also has a whole range of special functions which will make day-to-day use of your new video recorder easier for you.



Plug in and off you go - getting started with your new video recorder just couldn't be simpler. Once you have connected the cables, you will immediately see text on the screen which will assist you at all stages of operation.



Philips has developed a system which makes it possible for you to get the best possible playback quality from video cassettes. Interference on old, often-played tapes is minimised, and in new or high quality cassettes, details are even clearer.



The precision mechanism developed by Philips guarantees short rewind times and, by automatically detecting the length of the tape, makes operation as easy as possible for the user.



The simple programming system VIDEO Plus+ revolutionized the video world when it was introduced. Instead of having to enter many different details (date, starting time, finish time, programme), which was often tiresome and liable to errors, all you have to do is enter a number, up to nine digits long, which can be found in any TV programme listing.

VIDEO Plus+ and PlusCode are registered trademarks of Gemstar Development Corporation. The VIDEO Plus+ system is manufactured under licence from Gemstar Development Corporation.

So that you can identify your machine in the event of theft, enter the serial number (PROD. NO) here. You will find it on the type plate on the back of the set.

MODEL NO.	VR 608/07	PHILIPS
PROD. NO.	••••••	PHILIPS

If you have any problems using the video recorder, please read the corresponding chapters in this instruction manual. If you have any questions, there is also a customer support service available in your country. You can find the telephone number in the guarantee information enclosed in the packaging. Please have your model number (MODEL NO.) and production number (PROD. NO.) ready.

English The most important functions

Important information for customers in Great Britain

This set is fitted with an approved moulded 13 amp plug. To change the fuse in this plug or to attach a different plug, please proceed as follows:

- Take off the fuse cover and remove the old fuse
- Insert a new fuse. Suitable fuses are those of the type BS 1362 3A, A.S.T.A. standard or BSI standard
- 3 Close the fuse cover

If the attached plug does not meet your requirements, you can cut it off and replace it with a suitable plug. Please observe the following conditions:

If your new plug uses a built-in fuse, this should be a 3A fuse.

If your new plug does not contain a built-in fuse, please do not use any fuses in your fusebox with a rating of more than 5A.

Please destroy the old cut-off plug so that it cannot be used elsewhere.

- 4 Connect the blue cable (neutral "N") to the terminal in the plug which is marked with the letter "N" or coloured black
- 5 Connect the brown cable (live, "L") to the terminal in the plug which is marked with the letter "L" or coloured red
- Do not in any circumstances connect either of the two cables to the terminal in the plug which is marked with the letter "E", the symbol "\(\frac{1}{2}\)" or coloured green or green / yellow

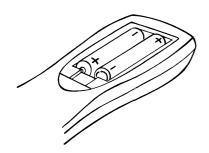


Before you refit the plug cover, make sure, that the grip at the bottom of the plug is clamped over the plastic cover of the lead, not just over the two wires.



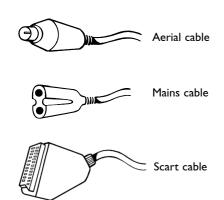
Connecting the video recorder

Preparing the remote control for operation



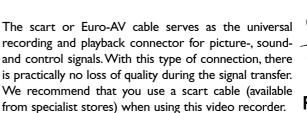
- Take the remote control of the video recorder and the enclosed batteries (2 batteries)
- Open the battery compartment, insert the batteries as shown and then close the battery compartment. The remote control is now ready to use

Connecting to a TV set with a scart socket



Have the following cables ready: An aerial cable (enclosed), a mains cable (enclosed) and a scart cable

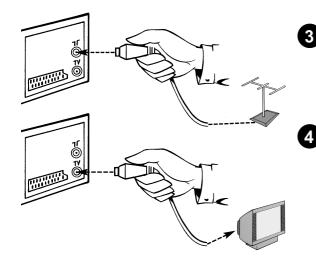
What is a scart cable?





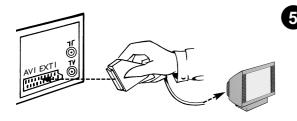
PARDON?

2 Switch off your TV set

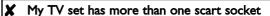


ENGLISH

- Remove the aerial cable plug from the back of your TV set and insert it into the aerial socket **Tr** on the back of the video recorder
- Take the enclosed aerial cable and connect the appropriate end to the aerial socket of your TV set and to the TV socket on the back of the video recorder



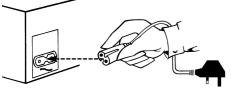
Take a scart cable and connect one end to the scart socket on the back of your TV set and the other to the scart socket AVI EXTI on the back of the video recorder



Then you have a more modern TV set. Please check first (with the aid of the operating instructions for the TV set), which of the available scart sockets is intended for use with the video recorder.



PROBLEM



CONGRATULATIONS

CONTINUE→ OK

YOU NOW OWN A NEW

VIDEO RECORDER

PHTI TPS

Take the enclosed mains cable and connect the appropriate end to the mains socket on the back of the video recorder and the other to the nearest free socket

Your set should automatically switch over to the programme number allocated to video recorder operation (usually: EXT, 0 or AV). You will see the welcome screen.



If a TV set receives a signal via the scart socket, it usually switches automatically to the corresponding programme number. This automatic function might be adversely affected. Please switch manually to the corresponding programme number (usually: EXT, 0 or AV)



PROBLEM

✔ Check the cable connections

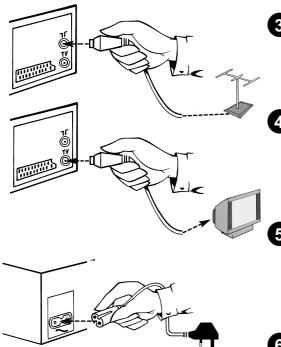
You can find more details in the chapter "Initial Installation"

Connecting to a TV set without a scart socket





- Have the following cables (provided with your new video recorder) ready: An aerial cable and a mains cable
- 2 Switch off your TV set



Remove the aerial cable plug from the back of your TV set and insert it into the aerial socket **Tr** on the back of the video recorder

Take the enclosed aerial cable and connect the appropriate end to the aerial socket of your TV set and to the TV socket on the back of the video recorder

Take the enclosed mains cable and connect the appropriate end to the mains socket \sim on the back of the video recorder and the other to the nearest free socket

Switch on your TV set and select on your TV set the programme number which will in future be used for operation with the video recorder

Change the settings of this programme number on your TV set until you see the adjacent welcome screen clearly and in colour on the screen





Your video recorder "broadcasts" on the frequency 583MHz (CH35) in the UHF range (ultra high frequency). Repeat the matching of the selected programme numbers on the TV set

Check the cable connections



Switch off the video recorder with the Standby button ${}^{\circlearrowright}$



Connecting additional devices

Additional devices, such as a decoder, camcorder, satellite receiver, etc., can be connected to the scart socket **AV2 EXT2** on the back of the video recorder. You will need a scart cable for this (available from specialist stores).

There are two audio output sockets on the back of the video recorder - AUDIO OUT L R. You can connect a stereo system to these.



Initial installation

Setting TV channels, date and time for the first time



AUTO INSTALL

SEARCHING
OO TU CHANNELS FOUND

PLEASE WAIT...

Using the OK button activate the automatic initial installation

"Aim" correctly

Always point the remote control at the video recorder and not at the TV set.



The set seeks out and stores all available TV channels as well as time and date. This procedure may take several minutes. As soon as all the data has been stored, the screen will show the message "STORED".

The Teletext clock resets automatically

If a TV channel which has Teletext is stored as programme number P01, the video recorder automatically takes in the date and time from the text function. The change from summer to winter time and vice versa should also occur automatically.



- ★ Despite a continued search the video recorder finds no TV channels ("00 TU CHANNELS FOUND")
- ✔ Please be patient! The video recorder will search through the entire frequency range in order to identify the maximum possible number of available TV channels. TV channels transmitted in your country may use a higher frequency band. As soon as this range is reached, the video reorder will find all available channels.



- The initial setting of channel, date and time is completed
 - ★ The time is not shown in the display of the video recorder ("--:--") or is shown incorrectly
 - ✓ While initial installation was going on, the set was unable to recognise the time. Please read the paragraph in Section 4 "Changing the time and date" to correct this problem



PROBLEM

Searching for TV channels manually

In exceptional cases, it may happen that on initial installation the set does not find all the available TV channels. In this case, the missing TV channels must be searched for and stored manually.

- Switch on the TV set and if necessary select the programme number set for video recorder operation
- Press the MENU button on the remote control. The on-screen menu appears



The on-screen menu takes the mystery out of using your new video recorder. All settings and recording steps can be done easily via the on-screen menu by following the corresponding instructions on the screen



Pardon?

- 3 Use **♦P-** or **↑P+** to select the option "MANUAL SEARCH"
- 4 Confirm with **OK**
- Use → or ← (or 0-9) to select the programme number (e.g.: "☐ ☐ f"), which you want to manually allocate to a TV channel

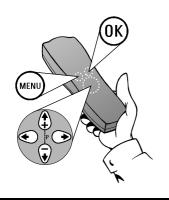
What is a channel, or a special channel?

TV channels are transmitted on precisely-defined frequency ranges. These ranges are also referred to as "channels". Each channel has its own TV station allocated to it. Most cable and satellite TV providers supply tables of channel allocations. Special channels (hyperband channels) are transmitted on special frequencies.



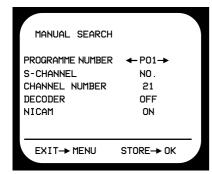
PARDON?

Use ↓P- or ↑P+ to select the option "CHANNEL NUMBER" and use → or ← (or 0-9) to enter the number of the TV channel required

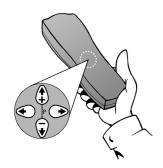


MAIN MENU
CLOCK
AUTO INSTALL
MANUAL SEARCH
FOLLOW TV
TV CHANNEL ALLOC.
RECORD SPEED
AUTO STANDBY
TV SYSTEM
SPECIAL SETTINGS

EXIT—MENU



nκ



✗ I don't know the channels for my TV stations

✓ No problem. Hold down the button → to start the automatic channel search. A changing channel number will appear on screen. Continue the automatic channel search until you have found the desired TV station

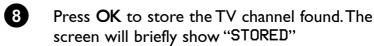


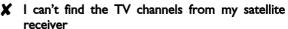
PROBLEM

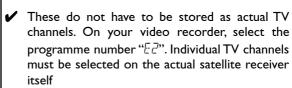
HiFi reception in Nicam

This video recorder can receive HiFi sound transmissions in Nicam standard. To switch this function on or off use \P P- or \P P+ to select the option "NICAM" and use → or ← to activate the "ON" or "OFF" setting. Nicam digital stereo is a TV broadcasting system capable of delivering CD quality digital stereo sound.







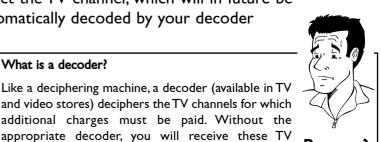




Finish manual searching of TV channels by pressing the MENU button or return to step 3 to allocate additional TV channels

Allocating decoder

Use **P-** and **P+** or the number keys **0-9** to select the TV channel, which will in future be automatically decoded by your decoder

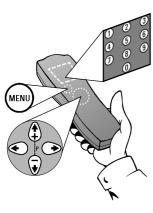


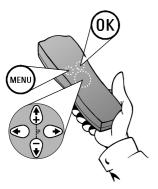
PARDON?

Press the **MENU** button

What is a decoder?

channels distorted.





MAIN MENU CL OCK AUTO INSTALL MANUAL SEARCH FOLLOW TV TV CHANNEL ALLOC. RECORD SPEED AUTO STANDBY TU SYSTEM SPECIAL SETTINGS EXIT→ MENU OK



The on-screen menu appears. Use the buttons **P-** and **P+** to select the menu point "MANUAL SEARCH" and confirm with OK

What is an on-screen menu?

The on-screen menu takes the mystery out of using your new video recorder. All settings and recording steps can be done easily via the on-screen menu by following the corresponding instructions on the



PARDON?

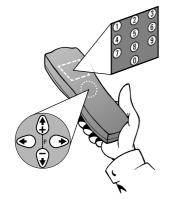
- Use $\sqrt[4]{P}$ or $\sqrt[4]{P}$ + to select the option "DECODER"
- Using \rightarrow or \leftarrow , activate the setting "ON". The display will show "DEC". When selecting "OFF" the decoder will not be allocated
- 6 Confirm with OK and leave the on-screen menu with the **MENU** button The screen will briefly show "STORED"

Check decoder allocation at a glance

There is no need to call up the on-screen menu to check to which TV channel on the video recorder a decoder is allocated. Simply use $\sqrt[4]{P}$ - and $\sqrt[4]{P}$ + to select a TV channel. If "DEC" appears in the display, a decoder is allocated to this channel.



TIP



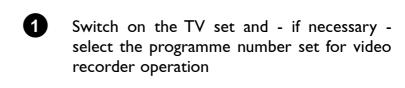
Using a satellite receiver

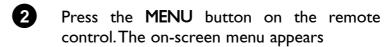
Those TV channels which are received via a satellite receiver connected (to the scart socket AV2 EXT2) can be viewed on the video recorder on programme number "Ed". Press the number button $\mathbf{0}$ on the remote control and then the button \mathbf{P} - to select this programme number. The TV channels of the satellite receiver are selected not on the video recorder itself, but directly on the satellite receiver.

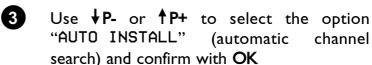


Searching for TV channels automatically

On initial installation, the video recorder performs an automatic channel search. If the channel assignments of your cable or satellite TV provider change or if you are reinstalling the video recorder, e.g. after moving house, you can start this procedure again. The video recorder finds all the available TV channels and stores the new settings.







TIP

Sequence of TV channels

TV channels are stored in the following sequence: BBC1, BBC2, ITC, CH 4, CH 5, others.

The set seeks out and stores all available TV channels. This procedure may take several minutes. As soon as all the TV channels have been stored, the screen will show the message "STORED".

- ✗ The video recorder is not finding all the TV channels
- ✓ In exceptional cases, it may happen that the set does not find all the available TV channels. In this case, the missing TV channels must be searched for and stored manually. You can look up how to do this in the chapter "Initial installation" ("Searching for a TV channel manually").



5 Finish with the **MENU** button



MAIN MENU

CLOCK
AUTO INSTALL
MANUAL SEARCH
FOLLOW TU
TV CHANNEL ALLOC.
RECORD SPEED
AUTO STANDBY
TV SYSTEM
SPECIAL SETTINGS

EXIT→ MENU

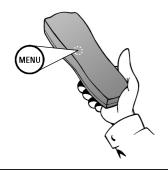
OK



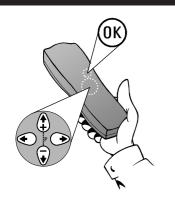
AUTO INSTALL

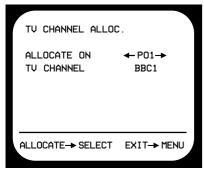
SEARCHING
OD TV CHANNELS FOUND

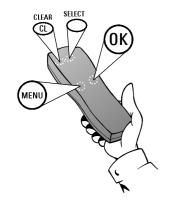
PLEASE WAIT...



MAIN MENU CLOCK AUTO INSTALL MANUAL SEARCH FOLLOW TU TV CHANNEL ALLOC. RECORD SPEED AUTO STANDBY TV SYSTEM SPECIAL SETTINGS EXIT→ MENU OK







Sorting and clearing of TV channels manually

After you have performed the automatic channel search you may not agree with the sequence in which the individual TV channels have been allocated to the programme positions of the video recorder. You can use this function to individually sort the TV channels found or to delete unwanted TV channels or those with poor reception.

- Switch on the TV set and if necessary select the programme number set for video recorder operation
- Press the MENU button on the remote control. The on-screen menu appears
- Use **P-** or **P+** to select the option "TV CHANNEL ALLOC." and confirm with **OK**
- Use → or ← to select the TV channel, to be allocated a programme position
- **Sorting:** Press **SELECT**, to allocate the TV

channel to the programme

position set P 11

Delete: Delete the TV channel which

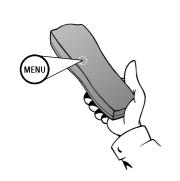
has been set with CLEAR (CL)

- 6 Continue repeating the steps 4 and 5, to allocate additional TV channels (\$\Pi \subseteq \Pi \sub
- Finish the manual sorting / clearing of TV channels with the MENU button

Sorting of TV channels automatically (Follow TV)

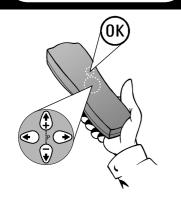
After you have performed the automatic channel search you may not agree with the sequence in which the individual TV channels have been allocated to the programme positions of the video recorder. You can use this function to sort the TV channels found exactly in the same order they are stored on your TV set.

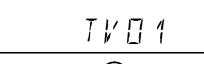
- Switch on the TV set and if necessary select the programme number set for video recorder operation
- Press the MENU button on the remote control. The on-screen menu appears
- Use **P-** or **P+** to select the option "FOLLOW TU" and confirm with **OK**
- Press **OK** to start the automatic TV channel sorting. The display of the video recorder shows "TV [] 1"
- On your TV set select the programme number "☐ 1"
- Press OK on the remote control of the video recorder. The video recorder compares the channels stored with the one currently chosen on the TV set. When the matching TV channel has been found, the video recorder stores it on " " "."



MAIN MENU
CLOCK
AUTO INSTALL
MANUAL SEARCH
FOLLOW TU
TV CHANNEL ALLOC.
RECORD SPEED
AUTO STANDBY
TV SYSTEM
SPECIAL SETTINGS

EXIT—MENU
OK



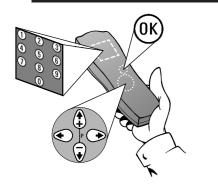


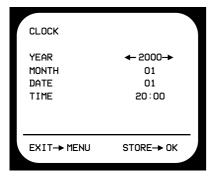


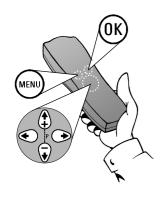
- ★ The display of the video recorder shows "N□TV"
- Unfortunately your TV set and the video recorder are not able to exchange data. If you still want to change the order of the stored TV channels, please read the section "Sorting and clearing of TV channels manually" in this chapter.



MAIN MENU CLOCK AUTO INSTALL MANUAL SEARCH FOLLOW TV TV CHANNEL ALLOC. RECORD SPEED AUTO STANDBY TV SYSTEM SPECIAL SETTINGS EXIT—MENU OK







Changing the time and date

If the display shows an incorrect time or "--:--", the time and date must be set manually.

- Press the MENU button on the remote control. The on-screen menu appears
- Use ↓P- or ↑P+ to select the option "CLOCK" and confirm with OK
- In the "YEAR" option if the setting displayed is incorrect enter the current year with the number buttons 0-9 (or with → and ←)



Enter the values correctly

Numbers less than 10 must be entered with an additional "0". Therefore for "9" you must enter "09".

- Use **P-** or **P+** to select the option "MONTH" and if the setting displayed is incorrect enter the current month with the number buttons **0-9** (or with → and ←)
- Use **P-** or **P+** to select the option "DATE" and if the setting displayed is incorrect enter the current calendar date with the number buttons **0-9** (or with → and ←)
- Use ↓P- or ↑P+ to select the option "TIME" and if the setting displayed is incorrect enter the current time with the number buttons 0-9 (or with → and ←)
- Check the settings displayed for year, month, date and time and store them by pressing OK. The screen will briefly show "STORED"
- 8 Leave the on-screen menu with the MENU button

The Teletext clock resets automatically

If you store a TV channel which has Teletext as programme number P01, the video recorder automatically takes in the date and time from the text function. The change from summer to winter time and vice versa should also occur automatically.





Operating instructions

General information

Switching on	If the video recorder is in standby mode, it can be switched on either by pressing the Standby button \circlearrowleft , by pressing one of the number buttons \circlearrowleft or by inserting a cassette.
Automatic switch-off	If the video recorder is not used for several minutes, it switches itself off automatically. This function can be deactivated (e.g. if you want to use the video recorder as a TV receiver). You can find out more about this in the chapter "Other functions" ("Adjusting automatic switch off").
Energy consumption	The video recorder should always be connected to the mains so as not to affect programmed recordings and use of the TV set. Power consumption (in energy saving mode) is less than 4W.
Saving energy	In standby mode, the display of the video recorder shows the current time. This display can be deactivated manually, in order to reduce power consumption to a minimum in standby mode. You can find the necessary steps in the section "Other functions" ("Energy-saving mode").
Emergency exit	The video recorder and the remote control have the option of an "Emergency exit". You can use the Standby button \circ to interrupt any step during use. But even without an "emergency brake" your new video recorder is safe: there is no risk whatsoever of damaging the set by performing user steps incorrectly.
In the event of a power cut	Channel data are stored for around I year, time and timer data remain in the memory of the video recorder for around 3 hours.

Navigation in the main menu

You can check and / or change many functions and settings of your video recorder via the main menu. The individual functions are selected as follows via the on-screen menu of the video recorder

MENU
CLOCK
AUTO INSTALL
MANUAL SEARCH
TV CHANNEL ALLOC.
RECORD SPEED
AUTO STANDBY
TV SYSTEM
SPECIAL SETTINGS

Call up: **MENU**

Select: $\uparrow P+ \text{ or } \downarrow P-$

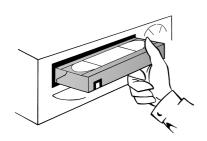
Confirm: OK

Enter: $0-9 \text{ or } \rightarrow \text{ and } \leftarrow$

Interrupt: STANDBY/ON む

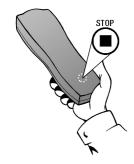
Abandon: **MENU**













Playing cassettes

Insert a VHS cassette in the cassette opening on the front of the video recorder. The tape will be caught and automatically placed in the correct position. The display will show "
""

What does VHS mean?

The "Video Home System" (VHS) has become the world-wide standard for recording and playback of amateur video cassettes. The popular standard has since been refined. Super-VHS (S-VHS) offers greater sharpness and less noise, Digital-VHS (D-VHS) now only works with digital picture and sound signals. Your video recorder can only record and play standard VHS cassettes.



PARDON?

- Press the Playback button ▶ to play the tape
 - Picture / sound quality is poor
 - ✔ Please read the section "Removing picture interference" in this chapter.
 - When playing many rental videos or older, poorer quality cassettes, it may not be possible to completely filter out picture and sound interference. There is nothing wrong with the video recorder.



TIP

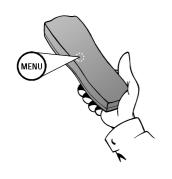
- Press the Stop button on the remote control (or the Stop/Eject button ■/▲ on the front of the video recorder) to stop playback
- Press the Stop/Eject button ■/▲ on the front of the video recorder to remove the tape

to protect the cassette and to save energy.

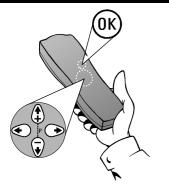
Automatic switch-off Many functions (pause, still picture, search, ...) switch themselves off automatically after a short time in order

Playing back NTSC cassettes

If you are using a PAL TV set which is capable of showing a frame frequency of 60 Hz, you can play cassettes which have been recorded on the NTSC standard (USA, Japan, etc.). During an NTSC playback, some special functions (e.g. still picture) are not possible. The display will show "50HZ"



MAIN MENU CLOCK AUTO INSTALL MANUAL SEARCH FOLLOW TV TV CHANNEL ALLOC. RECORD SPEED AUTO STANDBY TV SYSTEM SPECIAL SETTINGS EXIT→ MENU ΩK



SPECIAL SETTINGS	
OSD CLOCK DISPLAY COUNTER SAT RECORDING REPEAT PLAY DIRECT RECORD	ON OFF ← T.LEFT→ OFF OFF
EXIT→ MENU	ОК



Selecting tape position display type

If the OK button is pressed during playback and recording the current tape position (hours : minutes : seconds) is shown in the display. There are two different types of display available.

- Press the **MENU** button on the remote control. The on-screen menu appears
- Use $\forall P$ or $\uparrow P$ + to select the option "SPECIAL SETTINGS" and confirm with **OK**
- Use $\forall P$ or $\uparrow P$ + to select the option "COUNTER"

What types of display are available to me?

The display shows the number of

minutes of tape already played

(00:00:00 - hours/minutes/seconds)

"TIME LEFT": The display shows the playing time

remaining until the end of the cassette (00:00 - hours/minutes)



- Use → or ← to select the desired display type and confirm with OK The screen will briefly show "STORED"
 - The counter stops running when unrecorded places are found ("LINEAR" display type)
 - This is normal, and is necessary for technical
 - The display shows a negative playing time
 - This may happen, for example, when you insert an incompletely-rewound cassette into the video recorder and rewind it to the start of the tape. Since the display is automatically reset to "00:00:00" when you insert a cassette, the actual start of the cassette for the set is less than zero - thus in the negative range. The tape position is displayed with a minus sign "-".
 - $m{x}$ After inserting a cassette the video recorder shows no remaining playing time
 - The set needs a little time to calculate the remaining playing time. After a few seconds, the display should change from --:-- to the PROBLEM corresponding value



Display / reset tape position



CLEAR (CL) (only in the Reset:

"LINEAR" display mode)

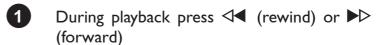
Automatic reset

Whenever a cassette is inserted the display is automatically reset to "00:00:00".





Searching for tape position with picture (picture search)





Reduced quality

During picture search the picture quality is affected. The sound is switched off.

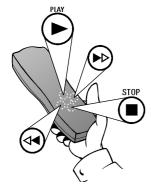
If you press ◀ or Press ▶ twice, the search speed





Different search speeds

will increase.



OK)

Searching for tape position without picture (forward wind and rewind

- Stop the tape with the Stop button
- Interrupt the search wherever you like with the Playback button ►

Switching between rewind / forward wind and picture search (instant view)

When winding the tape backwards or forwards if you hold down < (rewind) or ▶ (forward wind), the set will immediately switch without a break to picture search (with picture). When you release the rewind or forward wind button the rewind or forward wind process (without picture) will continue

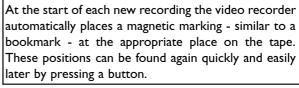


Searching automatically for tape position (index search)



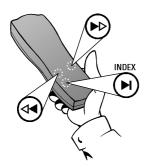
Insert a tape recorded on this video recorder or on another set with index marking

What is an index marking?





PARDON?



- Press the Index button ► and then ► (next index marking) or < (previous index marking)
- The video recorder searches for the desired index marking and automatically switches to playback

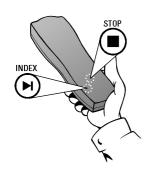


PROBLEM

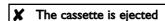
The tape has been stopped

✓ The video recorder was unable to find an index marking on the tape inserted.

Finding a blank position on tape automatically



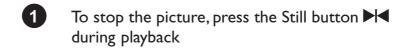
- Press the Index button ► and then the Stop button ■
- The video recorder searches for the next blank part longer than one minute of the tape and automatically switches to pause

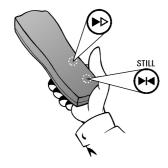


The video recorder was unable to find any blank space on the tape inserted



Still picture / slow motion





- Keep ►I pressed down to play back the picture in slow motion or press ►I several times in succession in order to move the picture forward frame by frame
- Press ▶ once to start automatic slow motion playback

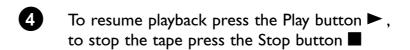
Increase playback speed

In automatic slow motion mode press $\blacktriangleright \triangleright$ several times to increase the playback speed.



No sound during slow motion

During slow motion there will be no sound



Selecting picture setting (Smart Picture)



Using the button **SMART** the picture settings can be displayed and altered during playback. There are four different settings available.

- 1 Press once on the button SMART □. The current picture setting will be displayed
- Press several times on the button SMART to change the picture setting. Each time the button is pressed, the next picture setting will be displayed.

What types of picture setting are available to me?

"NATURAL": Standard setting

(for all types of films)

"DISTINCT": Emphasises details

(e.g. for sports programmes)

"SOFT": Suppression of interference

(when using rented cassettes)

"SHARP": Increase in sharpness

(e.g. for animated films)



As soon as the SMART button □ has not been pressed for a few seconds, the last selected picture setting will be accepted.

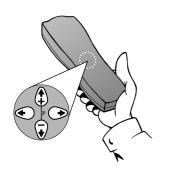
Play compact VHS cassettes

You can, of course, also use this video recorder to play back compact VHS cassettes. To do this, you will need the appropriate cassette adapter. Its dimensions match those of a normal VHS cassette. The adapter is recognised and treated by the set as a VHS cassette.



Removing picture interference

Optimizing tracking

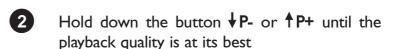


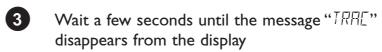
During playback, hold down the button **†P+** until the display shows "TRAE"

PARDON?

What is tracking?

Tracking is the name given to the process of optimizing picture and sound playback. During this process the speed of the tape is adjusted in such a way that all kinds of interference are removed or (in the case of old VHS cassettes) minimised.







Tracking adjustment is retained

The adjustments made are stored until the cassette is removed. After that, the standard tracking adjustment is restored.



 TIP

Optimizing still picture

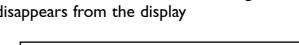
When still picture is activated hold down the button **P-** or **P+** until the optimal picture quality is obtained. The display will show ", | | TT"

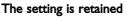


When using rental cassettes or older tapes, it may not be possible to get rid of all interference completely



Wait a few seconds until the message "LIII" disappears from the display





The adjustments made are stored until the cassette is removed. Then the still picture standard setting is restored.



 TIP

OPTIMIZING TRACKING / STILL PICTURE

TRAC

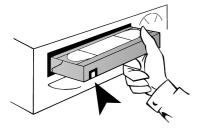
ENGLISH



Manual recording

Starting and stopping of recording manually

- Switch on the TV set and if necessary select the programme number set for video recorder operation
- Insert a cassette without erase protection



What is erase protection?

VHS cassettes can be protected from over-recording by breaking off a thin strip of plastic (arrow). This erase protection can be overridden by sticking one or more strips of adhesive tape tightly over the gap which has been created.



PARDON?

- Use the buttons egthinspace P- or egthinspace P+ to select the programme number, under which your video recorder has stored the desired TV channel
 - X I can't find the TV channels from my satellite
 - X I want to record from an additional device
 - ✓ Signals from additional devices such as a camcorder, other video recorder, PCs, etc. - are received via the scart socket of the video recorder. The programme numbers "E" and "E" are allocated for these sources.



PROBLEM

Selecting the recording speed

You have the option of two playback and recording speeds: Standard Play (SP) offers the usual first-class picture quality. By using Long Play (LP), you can (with somewhat reduced picture quality) for example record about 360 minutes of programmes on a 180 minute cassette. This chapter explains how to set the desired recording speed ("Selecting the recording speed").



EXPERTS

Start recording by pressing the Record button • (remote control or on front of set). The display will show "\circ\".



Displaying tape position

With the **OK** button you can display the current tape position (see chapter "Playback")



End the recording by pressing the Stop button **I**

Starting recording manually / stopping automatically

1 Insert a cassette without erase protection

What is erase protection?

VHS cassettes can be protected from over-recording by breaking off a thin strip of plastic (arrow). This erase protection can be overridden by sticking one or more strips of adhesive tape tightly over the gap which has been created.



Pardon?

Use the buttons **♦P-** or **↑P+** to select the programme number, under which your video recorder has stored the desired TV channel

- ✗ I can't find the TV channels from my satellite receiver
- X I want to record from an additional device
- ✓ Signals from additional devices such as a camcorder, other video recorder, PCs, etc. are received via the scart socket of the video recorder. The programme numbers "E 4" and "E 2" are allocated for these sources.



Selecting the recording speed

You have the option of two playback and recording speeds: Standard Play (SP) offers the usual first-class picture quality. By using Long Play (LP), you can (with somewhat reduced picture quality) for example record about 360 minutes of programmes on a 180 minute cassette. This chapter explains how to set the desired recording speed ("Selecting the recording speed").



Press the Record button several times. The time faded in corresponds to the duration of recording to be selected. Each time the Record button is pressed again this is increased in regular steps (30 minutes). Stop the adjustment when you have reached the desired duration. Recording will start.

Delete entry

The recording period displayed can be reset to 00:00:00 with the **CLEAR (CL)** button.





Lining up manual recordings

When you add a further recording to a cassette, which already has a recording on it, a short blank (flicker) usually appears between the old and the new recording. This is how to avoid such an effect.

- 1 Look at the last minute of the old recording (playback)
- Press the Stop button at the point where you want the new recording to start (the display will show ■)
- Press the Record button in the usual way to start the new recording

Selecting the recording speed

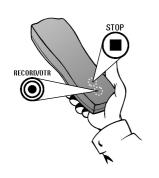
- 1 Press the MENU button on the remote control. The on-screen menu appears
- Use **P-** or **P+** to select the option "RECORD SPEED" and confirm with **OK**
- Use → or ← to select the desired recording speed ("SP" - Standard Play or "LP" - Long Play or "AUTO" - Auto Long Play)

Standard Play / Long Play

Standard Play (SP) offers the usual, first-class picture quality. By using Long Play (LP), you can (with somewhat reduced picture quality) for example record about 360 minutes of programmes on a 180 minute cassette.



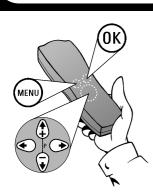
- PARDON?
- Confirm with **OK**. The screen will briefly show "STORED"
- 5 Stop selection of recording speed with **MENU**



MAIN MENU

CLOCK
AUTO INSTALL
MANUAL SEARCH
FOLLOW TU
TV CHANNEL ALLOC.
RECORD SPEED
AUTO STANDBY
TV SYSTEM
SPECIAL SETTINGS

EXIT—MENU





Recording automatically from a satellite receiver

You can only use this function if you have a satellite receiver which can control other devices via a scart cable

What is a scart cable?

The scart or Euro-AV cable serves as the universal recording and playback connector for picture-, sound-and control signals. With this type of connection, there is practically no loss of quality during the signal transfer. We recommend that you use a scart cable when using this video recorder.



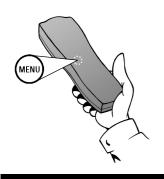
PARDON?

- 1 Insert a cassette without erase protection
- Check that the satellite receiver is connected to the scart socket EXT.2 AV 2 on the back of the video recorder
- 3 Press the MENU button on the remote control. The on-screen menu appears
- Use **P-** or **P+** to select the option "SPECIAL SETTINGS" and confirm with **OK**
- Use

 P- or

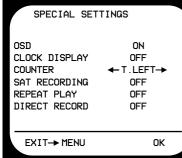
 P+ to select the option
 "SAT RECORDING"
- G Use → or ← to select the setting "ON", to activate automatic recording from a satellite receiver, or "OFF", to deactivate it. Confirm with OK. The screen will briefly show the message "STORED"
- Programme the data <u>on the satellite receiver</u> for the desired recording. If necessary, you should refer to the instructions for your satellite receiver for assistance.
- 8 SWITCH OFF THE VIDEO RECORDER WITH THE STANDBY/ON BUTTON U. IF YOU DON'T DO THIS, THE SET WILL NOT RECORD.

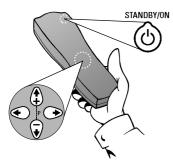
When automatic recording has been activated by a satellite receiver, "\(\section \)" will light up in the display

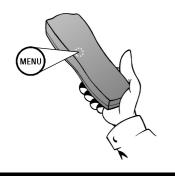




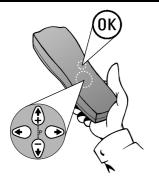




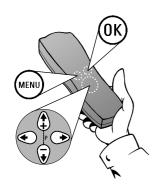




MAIN MENU CLOCK AUTO INSTALL MANUAL SEARCH FOLLOW TV TV CHANNEL ALLOC. RECORD SPEED AUTO STANDBY TU SYSTEM SPECIAL SETTINGS EXIT→ MENU



SPECIAL SET	TINGS	
OSD CLOCK DISPLAY COUNTER SAT RECORDING REPEAT PLAY DIRECT RECORD	ON OFF ← T. LEFT→ OFF OFF	
EXIT→ MENU	ОК	



Activate / deactivate direct recording

- Press the MENU button on the remote control. The on-screen menu appears
- Use $\forall P$ or $\uparrow P$ + to select the option "SPECIAL SETTINGS" and confirm with OK
- Use \P or \P + to select the option "DIRECT RECORD"

What is Direct Record?

The "Direct Record" function means you can record in seconds when the video recorder is switched off. When the record button is pressed, the video recorder automatically recognises which TV channel has been selected on the TV set and starts to record the corresponding programme.

Requirements: I. The TV set and video recorder are connected with a scart cable! 2. The TV set supports the "Easylink" function. 3. The "Direct Record" function has been activated in the on-screen menu. 4. There is a cassette ready for recording in the machine!



PARDON?

- Use → or ← to select the setting "ON", to enable direct recordings, or "OFF", to deactivate this function.
 - ✗ I cannot select "ON" or "OFF"
 - ✓ If, in the option "DIRECT RECORD" the comment "N. ACT." appears, your TV set unfortunately does not support the "Easylink" function. This means that direct recordings are not possible.



- Confirm the setting with **OK**
- Leave the on-screen menu with the MENU button

Switch the video recorder off!

The "Direct Record" function only works when the Record button • is pressed when the video recorder is switched off.



Switch of the video recorder with the Standby button 🖰

Making a direct recording

The "direct record" function must be activated in the on-screen menu (see previous page). No direct recordings can be made unless this function has been activated

What is Direct Record?

The "Direct Record" function means you can record in seconds when the video recorder is switched off. When the record button is pressed, the video recorder automatically recognises which TV channel has been selected on the TV set and starts to record the corresponding programme.

Requirements: I. The TV set and video recorder are connected with a scart cable! 2. The TV set supports the "Easylink" function. 3. The "Direct Record" function has been activated in the on-screen menu. 4. There is a cassette ready for recording in the machine! PARDON?



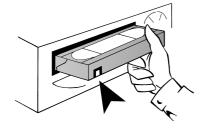


What is erase protection?

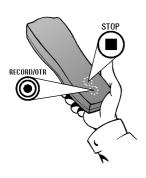
VHS cassettes can be protected from over-recording by breaking off a thin strip of plastic (arrow). This erase protection can be overridden by sticking one or more strips of adhesive tape tightly over the gap which has been



- Switch off the video recorder with the Standby button 🖰
- On the TV set, select the channel for the programme you wish to record
- Press the Record button on the video recorder. The video recorder recognises the TV channnel on the TV set and automatically records the correct programme
- End the recording by pressing the Stop button





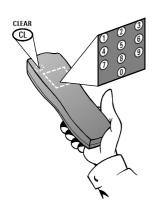




Programmed recordings

TIMER







Programming timer with VIDEO Plus+

1 Press the TIMER button 🕘

What is a Timer?

The timer controls the programmed recordings of your video recorder. Requirements for a timer which works correctly: The clock in the video recorder must be correctly set or the reception of the TV signal must be as free from interference as possible (for example, if there is interference, the video recorder might not orrectly recognise the VPS signal of a TV channel).



PARDON?

The VIDEO Plus screen will appear

What is VIDEO Plus+?

A programming system which replaces the often tiresome entry of date, starting time, finish time and programme number by the simple entry of a number up to nine digits long (which can be found in any TV programme listing).



PARDON?

3 Use the **0-9** keys to enter the PlusCode programming number of the TV programme selected: Incorrect entries can be cancelled with the **CLEAR** (**CL**) button

Daily / weekly recordings

If you like, you can use **SELECT** "ONCE" for one-off recordings, "MO-FR" for recordings, which are repeated daily (Mon-Fri) or "WEEK." for recordings, which are repeated each week on the same day.



4 Confirm with **OK**

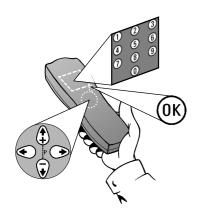
✗ I get the error message "SELECT PROG. NR."

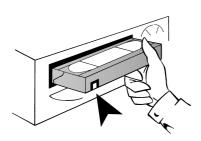
✓ You have entered a correct PlusCode programming number - but automatic recognition of the correct TV channel has failed. Please enter the programme number under which your video recorder has stored the desired TV channel using the buttons 0-9 and confirm with OK.

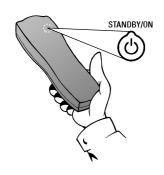


PROBLEM









Activate VPS/PDC

VPS (Video Programming Service) and PDC signals (Programme Delivery Control) are transmitted by TV channels at the start and end of transmissions and ensure that programmes will be completely recorded, even if they are rescheduled. In the entry field, "START" use **SELECT** to switch recognition of these signals on (*) or off ().



6 Confirm with **OK** The screen will briefly show "STORED"

Selecting the recording speed

You have the option of two playback and recording speeds: Standard Play (SP) offers the usual first-class picture quality, and with Long Play (LP) you can for example (with somewhat reduced picture quality) record about 360 minutes on a 180-minute cassette. In Auto Long Play, the video recorder recognises how much remaining playing time is available and automatically selects SP or LP. In the entry field "END" use SELECT to enter the required setting.



7 Insert a cassette without erase protection

What is erase protection?

VHS cassettes can be protected from over-recording by breaking off a thin strip of plastic (arrow). This erase protection can be overridden by sticking one or more strips of adhesive tape tightly over the gap which has been created.



PARDON?

SWITCH OFF THE VIDEO RECORDER WITH THE STANDBY/ON U BUTTON. IF YOU DON'T DO THIS, THE SET WILL NOT RECORD.

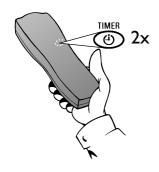
The video recorder switches itself off automatically. The display will show "'ė')"

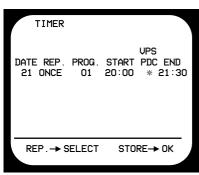
YOU WILL FIND TIPS FOR SOLVING PROBLEMS TO DO WITH VIDEO PLUS RECORDING ON THE FOLLOWING PAGE.

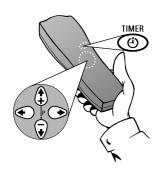


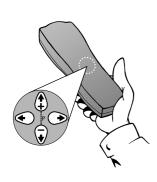
Problem solving (VIDEO Plus-Programming)

Problem	Solution
Error message: "SELECT PROG. NR."	A correct PlusCode programming number has been entered - but automatic recognition of the correct TV channel has failed. Please enter the programme number under which your video recorder has stored the desired TV channel using the buttons 0-9 and confirm with OK
Error message: "PLUSCODE NUMBER NOT VALID"	The Pluscode programming number entered is incorrect or does not match the date entered. Please repeat the entry or finish with the button STANDBY/ON ひ.
Error message: "MO-FR PROGRAMMING NOT POSSIBLE FOR WEEKEND"	- The attribute "MO-FR" has been selected for a recording at the weekend. This is only possible for recordings from Monday to Friday. Please repeat the entry or finish with the button STANDBY/ON 也.
Error message: "SWITCH TO STANDBY - TIMER RECORDING"	A recording was programmed, but the video recorder was not switched into timer mode with the Standby button \circ . Press STANDBY/ON \circ , in order to make the programmed recording. Warning: if you do not do this, the video recorder will not record.
Error message: "NO CASSETTE"	A recording was programmed, but there is no cassette in the machine. Insert a cassette without erase protection ready for recording.
Error message: "ALL TIMERS OCCUPIED"	All the available memory locations in your video recorder for timer and VIDEO Plus programming are full. Delete a programmed recording (see chapter "Deleting a programmed recording").
"O" and/or " " flash in the display of the video recorder	A recording was programmed, but there is no cassette in the machine. Insert a cassette without erase protection ready for recording. A recording was programmed, but the video recorder was not switched into timer mode with the Standby button \circ . Press STANDBY/ON \circ , in order to make the programmed recording. Warning: if you do not do this, the video recorder will not record.
Cassette is ejected after programming	A cassette with erase protection was inserted. Please deactivate the erase protection or insert another cassette which is ready for recording.
Cassette is ejected during recording	The end of the tape was reached during a programmed recording. The recording could not be completed satisfactorily.
The set cannot be used during recording	Once started, a recording can only be interrupted by pressing the STANDBY/ON button \circlearrowleft . WARNING: This will not only stop the recording, but it will also delete the programmed recording from the memory of the video recorder.
Year/month/date/time screen appears	The time has not been set or not set correctly. After entering / confirming year, month, date and time, you can continue programming.









Programming timer without VIDEO Plus+

- Press the **TIMER** button \oplus twice
- The Timer screen will appear
- Use if necessary **P** or **P**+ to select a free memory location and confirm with TIMER \odot .

What is a memory location?

For technical reasons, your video recorder has access to a limited number of "drawers" in which you can store your programming requirements. "Drawers" occupied by programme recording details are only available for use again after the video recorder has successfully completed a programmed recording or if it has been manually deleted. There are six available memory locations for programmed recordings on your video recorder.



PARDON?

Use → or ← to select the entry field "DATE" and enter the date of your desired recording

Daily / weekly recordings

If you like, you can use SELECT "MO-FR" for recordings, which are repeated at the same time daily (Monday-Friday) or "WEEK." for recordings, which are repeated each week on the same day.



Use → or ← to select the entry field "PROG." and enter the programme number under which the video recorder has stored the desired TV channel

Enter the values correctly

Numbers less than 10 must be entered with an additional "0". Therefore for "9" you must enter "09".

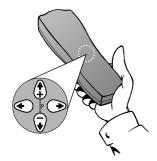


6 Use → or ← to select the entry field "START." and enter the start time of your desired recording

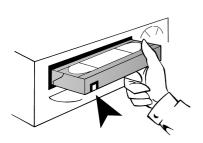
Activate VPS/PDC

VPS (Video Programming Service) and PDC signals (Programme Delivery Control) are transmitted by TV channels at the start and end of transmissions and ensure that programmes will be completely recorded, even if they are rescheduled. In the entry field, "START" use **SELECT** to switch recognition of these signals on (*) or off ().











- 7 Use → or ← to select the entry field "END" and enter the finish time of your desired recording
- 8 Check that the date, programme number, start and finish time are shown correctly on the screen. Confirm with the OK button The screen will briefly show "STORED"

Selecting the recording speed

You have the option of two playback and recording speeds: Standard Play (SP) offers the usual first-class picture quality, and with Long Play (LP) you can for example (with somewhat reduced picture quality) record about 360 minutes on a 180-minute cassette. In Auto Long Play, the video recorder recognises how much remaining playing time is available and automatically selects SP or LP. In the entry field "END" use **SELECT** to enter the required setting.



9 Insert a cassette without erase protection

What is erase protection?

VHS cassettes can be protected from over-recording by breaking off a thin strip of plastic (arrow). This erase protection can be overridden by sticking one or more strips of adhesive tape tightly over the gap which has been created.



SWITCH OFF THE VIDEO RECORDER WITH THE STANDBY/ON & BUTTON. IF YOU DON'T DO THIS, THE SET WILL NOT RECORD.

The display will show "O"

ON THE NEXT PAGE, YOU WILL FIND SOME TIPS FOR SOLVING PROBLEMS CONCERNING TIMER RECORDING.



Problem solving (Timer programming)

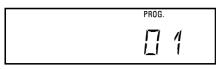
Problem	SOLUTION
Error message: "NO CASSETTE"	A recording was programmed, but there is no cassette in the machine. Insert a cassette without erase protection ready for recording.
Error message: "SWITCH TO STANDBY - TIMER RECORDING"	A recording was programmed, but the video recorder was not switched into timer mode with the Standby button. Press STANDBY/ON O, in order to make the programmed recording. Warning: if you do not do this, the video recorder will not record.
"⊕" and/or "••"	A recording was programmed, but there is no cassette in the machine. Insert a cassette without erase protection ready for recording.
flash in the display of the video recorder	A recording was programmed, but the video recorder was not switched into timer mode with the Standby button. Press STANDBY/ON O, in order to make the programmed recording. Warning: if you do not do this, the video recorder will not record.
Error message: "ALL TIMERS OCCUPIED"	All the available memory locations in your video recorder for timer and VIDEO Plus programming are full. Delete a programmed recording (see chapter "Delete / check / change programmed recordings").
Cassette is ejected during recording	The end of the tape was reached during a programmed recording. The recording could not be completed satisfactorily.
Cassette is ejected after programming	A cassette with erase protection was inserted. Please deactivate the erase protection or insert another cassette which is ready for recording.
The set cannot be used during recording	Once started, a recording can only be interrupted by pressing the STANDBY/ON button \circlearrowleft . WARNING: This will not only stop the recording, but it will also delete the programmed recording from the memory of the video recorder.
Year/month/date/time screen appears	The time has not been set or not set correctly. After entering / confirming year, month, date and time, you can continue programming.

Recording via external sources

If you want to watch or record transmissions from a satellite receiver, films from a video camera (or from other external devices), connect the device to the scart socket **EXTI AVI** or **EXT2 AV2** and select the programme number on your video recorder "E 1" or "EZ".

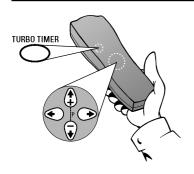


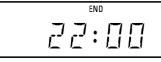














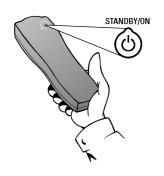
"Turbo Timer"-Recording

Using the "Turbo Timer", you can make a programmed recording within the next 24 hours quickly and simply, without having to switch on the TV set. All you need to do now is enter or confirm the desired programme number and start and finish time in the video recorder.

- 1 Press the TURBO TIMER button on the remote control.
- The display shows the programme number to which the video recorder is currently set, e.g.: "PROG. ☐ ". Change if necessary the displayed programme number with **P-** or **P+.** Confirm with the **TURBO TIMER** button
- The display shows the actual starting time, e.g.: "START ☐☐:☐☐". Change if necessary the displayed start time with \$\displayed\$ P- or \$\dagger\$ P+ (or with \$\doldnot\dagger\$)
- 4 Confirm with the TURBO TIMER button
- The display shows a suggestion for the end of the recording e.g.: "END ??: "☐" (Start time + 2 hours). Change if necessary the displayed finish time with \$\dagger\$P- or \$\dagger\$P+ (or with \$\dot{0-9}\$). Confirm with the TURBO TIMER button. The display briefly shows "☐"."







6 Insert a cassette without erase protection

What is erase protection?

VHS cassettes can be protected from over-recording by breaking off a thin strip of plastic (arrow). This erase protection can be overridden by sticking one or more strips of adhesive tape tightly over the gap which has been created.



PARDON?

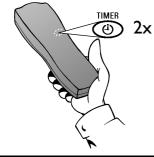
SWITCH OFF THE VIDEO RECORDER WITH THE STANDBY/ON BUTTON (). IF YOU DON'T DOTHIS, THE SET WILL NOT RECORD.

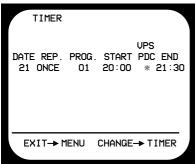
The display will show "Ü"

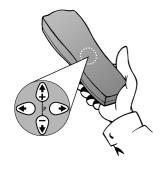
Problem solving (Turbo Timer programming)

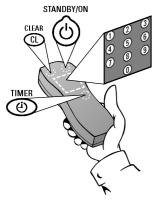
SOLUTION **PROBLEM** Error message: "[#55", A recording was programmed, but there is no cassette in the machine. Insert a "©" and "■" will blink cassette without erase protection ready for recording. in the display All the available memory locations in your video recorder for timer and VIDEO Error message: "FLILL" Plus programming are full. Delete a programmed recording (see chapter "Delete / check / change programmed recordings"). Cassette is ejected The end of the tape was reached during a programmed recording. The recording during recording could not be completed satisfactorily. Cassette is ejected A cassette with erase protection was inserted. Please deactivate the erase after programming protection or insert another cassette which is ready for recording. Once started, a recording can only be interrupted by pressing the STANDBY/ON The set cannot be button O. WARNING: This will not only stop the recording, but it will also used during recording delete the programmed recording from the memory of the video recorder. The time has not been set or not set correctly. A Turbo Timer recording is not Error message: "[LK" possible. Please enter the correct time (Section "Changing the time and date")

Delete / check / change programmed recordings









- 1 Press the TIMER button (4) twice on the remote control
- Use the buttons **†P-** or **↑P+** to select the memory location in the display which you want to check/change/delete

What is a memory location?

For technical reasons, your video recorder has access to a limited number of "drawers" in which you can store your programming requirements. "Drawers" occupied by programme recording details are only available for use again after the video recorder has successfully completed a programmed recording or if it has been manually deleted.



PARDON?

- 3 Delete: Press CLEAR (CL) and finish with the button OK.
 - Check: Press TIMER &, check the stored details and (once you have checked) end with the Standby button &
 - Change: Press TIMER ② and use the buttons 0-9 (or ↓P- and ↑P+) to enter the new value(s). Confirm with OK and activate the timer again with the Standby button ③.



Other functions

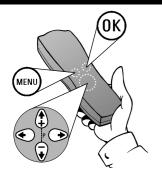


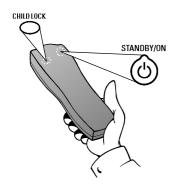
MAIN MENU

CLOCK
AUTO INSTALL
MANUAL SEARCH
FOLLOW TV
TV CHANNEL ALLOC.
RECORD SPEED
AUTO STANDBY
TV SYSTEM
SPECIAL SETTINGS

EXIT—MENU

OK





Adjusting automatic switch-off

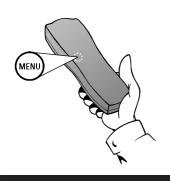
If the video recorder is not used for several minutes, it switches itself off automatically. If you want to use the video recorder as a TV receiver, you can deactivate the automatic switch-off as follows:

- 1 Press the MENU button on the remote control. The on-screen menu appears
- Use **P-** or **P+** to select the option "AUTO STANDBY" and confirm with **OK**
- Use → or ← to select the setting "OFF" (automatic switch-off deactivated) or "ON" (automatic switch-off activated) and confirm with OK. The screen will show the message "STORED"
- 4 Complete the adjustment of automatic switch-off with the MENU button

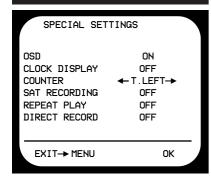
Adjusting the child lock

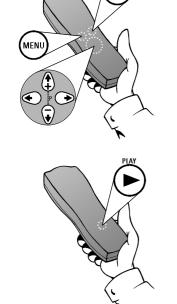
You can prevent unauthorised use of your video recorder with this function. Once it is activated, the buttons on the front of the set are locked. Previously entered programmes will of course be recorded

- Press the CHILD LOCK button for a few seconds, until the display shows "On ". The child lock is now activated. Switch off the video recorder with the Standby button O on the remote control. The set can now only be switched on with the remote control. Put away the remote control in a secure place
- To deactivate the child lock, press the button CHILD LOCK for a few seconds until "On" disappears in the display



MAIN MENU CLOCK AUTO INSTALL MANUAL SEARCH FOLLOW TV TV CHANNEL ALLOC. RECORD SPEED AUTO STANDBY TV SYSTEM SPECIAL SETTINGS EXIT—MENU





Replaying cassette continuously

This function can be used to play a tape over and over again. If the end of the cassette or of the recording has been reached, the video recorder automatically rewinds to the start of the tape and starts to play back again. This function is activated or deactivated as follows:

- 1 Press the MENU button on the remote control. The on-screen menu appears
- Use **P-** or **P+** to select the option "SPECIAL SETTINGS" and confirm with **OK**
- 3 Use **P-** or **P+** to select the option "REPEAT PLAY"
- Use → or ← to select the setting "ON" (continuous playback) or "OFF" (no continuous playback) and confirm with OK. The screen will briefly show "STORED"
- Complete the adjustment of continuous playback with the MENU button
- 6 Insert a cassette
- Press the Playback button ▶ to start the playback or continuous playback (depending on the setting)

Changing the TV system

When playing back cassettes which have been recorded with signals from a different TV system there may be interference with the colour. To deactivate the automatic change to a different TV system, you must follow these steps.

TV systems

Other countries, other TV systems: In central Europe transmissions are broadcast in the PAL-System (Phase Alternation Line) Standard, while in France SECAM (Séquentiel à mémoire) is used. In some countries (USA and Japan), TV viewers receive their programmes as an NTSC signal (National Television System Committee). Many TV and video sets can process and show several transmission systems,



- 1 During playback press the MENU button on the remote control. The on-screen menu appears
- Use **P** or **P**+ to select the option "TV SYSTEM" and confirm with **O**K
- 3 Use → or ← to select the desired TV system or "B/W" for black and white playback and confirm with OK

Reactivating automatic change-over

As soon as the cassette is ejected with the Stop/Eject button \blacksquare/\triangle the set switches automatically back to the "AUTO" setting (automatic switching). To change the setting during playback, perform the steps ①-③ again and select "AUTO".



4 End the change-over to automatic TV system changing with the MENU button

Black and white recordings

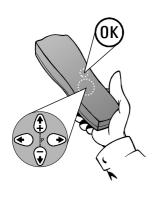
Of course, you can also make recordings in black and white from connected video signal sources (Camcorder, second video recorder,...) with this function. To do this, before starting the recording select the setting "B/W".



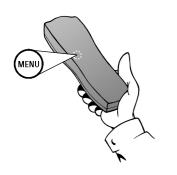


MAIN MENU
CLOCK
AUTO INSTALL
MANUAL SEARCH
FOLLOW TU
TV CHANNEL ALLOC.
RECORD SPEED
AUTO STANDBY
TV SYSTEM
SPECIAL SETTINGS

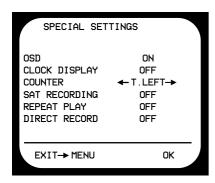
EXIT-> MENU
OK

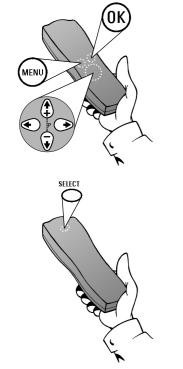






MAIN MENU CLOCK AUTO INSTALL MANUAL SEARCH FOLLOW TU TV CHANNEL ALLOC. RECORD SPEED AUTO STANDBY TV SYSTEM SPECIAL SETTINGS EXIT→ MENU OK





Adjusting the OSD information

If this function is activated, the current operating details of the video recorder will be briefly displayed on the screen

What is an OSD?

The on-screen menu or OSD ("On Screen Display") takes the mystery out of using your new video recorder. Using the main menu (MENU button on your remote control), all settings and recording steps can be done easily via the on-screen menu by following the corresponding instructions on the screen.



PARDON?

- 1 Press the MENU button on the remote control. The on-screen menu appears
- Use **P-** or **P+** to select the option "SPECIAL SETTINGS" and confirm with **OK**
- 3 Use **P-** or **P+** to select the option "OSD"
- Use → or ← to select the setting "ON" (OSD information on) or "OFF" (OSD information off) and confirm with OK

What goes on behind the settings?

ON: For each type of operation selected (playback, recording, etc.) the corresponding symbol appears briefly on the screen





Complete the adjustment of the OSD information with the **MENU** button

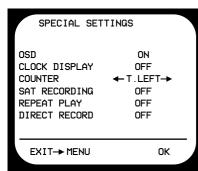
Selecting the sound channel

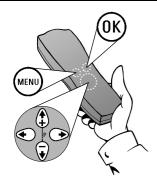
During playback or while receiving a TV channel via the video recorder, one or more sound channels can be selected. This means, for example, if there are multilingual transmissions, you can select the language you want.

1 Press the **SELECT** button on the remote control. The current sound channel setting is displayed









What goes on behind the settings?

STEREO: Both left and right stereo sound tracks can

be heard

LEFT: The left stereo sound track can be heard

RIGHT: The right stereo sound track can be heard

MONO: The mono sound track can be heard

MIX: The mono sound track as well as the left and

right stereo sound tracks can be heard

TIP

Press the SELECT button several times until the desired setting can be seen on the screen

Automatic switch-over to mono

If no stereo signal is recorded on a video cassette, the video recorder automatically switches over to the "MONO" sound channel setting

Make dubbing audible

When dubbing video recordings, the mono track is recorded with a new sound signal. The original stereo signal is retained. To make dubbing audible, you must select the "MIX" or "MONO" sound channel setting.



TIP

Energy-saving mode

To reduce the power consumption of the video recorder you can switch the clock in the display of the video recorder on or off as follows:

- 1 Press the MENU button on the remote control. The on-screen menu appears
- Use **P-** or **P+** to select the option "SPECIAL SETTINGS" and confirm with OK
- 3 Use **P-** or **P+** to select the option "CLOCK DISPLAY"
- Use → or ← to select the setting "ON" or "OFF" and confirm with OK. The screen will briefly show "STORED"
- 5 Complete the adjustment of the clock display with the **MENU** button

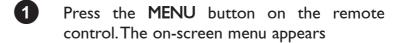


If you are using two video recorders which both react to the same remote control codes, you can use this function to change remote control and video recorder to other codes.

What are remote control codes?

Each time the button on your remote control is pressed, an invisible infra-red signal is sent to the video recorder. Each button has been allocated a specific code, which ensures, that the video recorder will carry out the corresponding function. If two video recorders respond to the same codes, the remote control signal emitted will be recognised and performed by both. Therefore the possibility exists, to allocate different remote control commands (with other codes) to this video recorder. This means that the uninterrupted use of both video recorders is possible once more.





On the remote control press the buttons **SELECT** and **2 simultaneously**, to set the video recorder to "UCR 2" (or SELECT and I, to set it to "VCR 1")



What must I set?

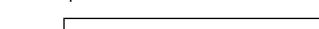
If two video recorders respond to the same codes, they are either both set to "UCR 1" or "UCR 2". Please change the setting of only one video recorder! The factory setting of the video recorder is "UCR 1".



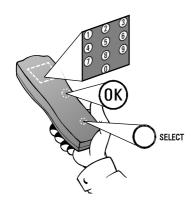
PROBLEM

Confirm with **OK**. The screen will show "RESPONDS TO UCR 2" or "RESPONDS TO UCR 1". The on-screen menu disappears The adjustment of the remote control is complete

✗ My on-screen menu does not disappear



- ✓ The video recorder does not recognise the change of remote control codes. Repeat steps 2 and 3
- **★** After the buttons are pressed "VER 4" or "VER 2" appears in the display of the video recorder
- Repeat step 2 to reset the remote control to the displayed settings



MAIN MENU

AUTO INSTALL

MANUAL SEARCH FOLLOW TV TV CHANNEL ALLOC.

RECORD SPEED AUTO STANDBY

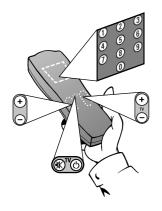
EXIT→ MENU

TU SYSTEM SPECIAL SETTINGS

CLOCK

Using the TV remote control

With the enclosed multicode remote control you can control the main functions of your TV set. To do this, you must first enter the make of your TV set.



- 1 Find the make of your TV set from the list below and take note of the corresponding remote control code(s)
- Hold down the button X / TV and enter one of the listed codes with the number buttons 0-9.
- 3 Now you can control your TV set remotely with the following buttons:

+ - (Increase / decrease TV volume)

≰ / **TV** (Switch sound on / off)

TV / ひ (Switch TV on / off)

+ TV - (Next / previous TV programme number)

REMOTE CONTROL CODES

Acura
Adyson
Akai
Akura21,25
Alba
Allorgan
Amplivision
Amstrad
Anitech
Arcam
Asuka
Audiosonic
BPL26
BSR
BTC
Basic Line
Baur
Beko35
Blaupunkt
Blue Sky
Blue Star
Bondstec
Boots
Brandt
Britannia19
Bush02,07,21,26,28,36
CGE
CGE
CS Electronics .19 CTC .23
CS Electronics
CS Electronics 19 CTC 23 Carrefour 07 Cascade 02
CS Electronics 19 CTC 23 Carrefour 07 Cascade 02 Cimline 02
CS Electronics .19 CTC .23 Carrefour .07 Cascade .02 Cimline .02 Clatronic .23,35
CS Electronics 19 CTC 23 Carrefour 07 Cascade 02 Cimline 02 Clatronic 23,35 Condor 30,35
CS Electronics 19 CTC 23 Carrefour 07 Cascade 02 Cimline 02 Clatronic 23,35 Condor 30,35 Contec 02,07,19
CS Electronics 19 CTC 23 Carrefour 07 Cascade 02 Cimline 02 Clatronic 23,35 Condor 30,35 Contec 02,07,19 Crown 02,35,38
CS Electronics 19 CTC 23 Carrefour 07 Cascade 02 Cimline 02 Clatronic 23,35 Condor 30,35 Contec 02,07,19
CS Electronics 19 CTC 23 Carrefour 07 Cascade 02 Cimline 02 Clatronic 23,35 Condor 30,35 Contec 02,07,19 Crown 02,35,38
CS Electronics 19 CTC 23 Carrefour 07 Cascade 02 Cimline 02 Clatronic 23,35 Condor 30,35 Contec 02,07,19 Crown 02,35,38 Cybertron 21
CS Electronics 19 CTC 23 Carrefour 07 Cascade 02 Cimline 02 Clatronic 23,35 Condor 30,35 Contec 02,07,19 Crown 02,35,38 Cybertron 21 Daewoo .02,36 Dainichi 21 Dayton .02
CS Electronics 19 CTC 23 Carrefour 07 Cascade 02 Cimline 02 Clatronic 23,35 Condor 30,35 Contec 02,07,19 Crown 02,35,38 Cybertron 21 Daewoo .02,36 Dainichi .21 Dayton .02 De Graaf .8
CS Electronics 19 CTC 23 Carrefour 07 Cascade 02 Cimline 02 Clatronic 23,35 Condor 30,35 Contec 02,07,19 Crown 02,35,38 Cybertron 21 Daewoo 02,36 Dainichi 21 Dayton 02 De Graaf 18 Decca 10
CS Electronics 19 CTC 23 Carrefour 07 Cascade 02 Cimline 02 Clatronic 23,35 Condor 30,35 Cortec 02,07,19 Crown 02,35,38 Cybertron 21 Daewoo .02,36 Dainichi 21 Dayton .02 De Graaf .18 Decca .10 Dixi .02
CS Electronics 19 CTC 23 Carrefour 07 Cascade 02 Cimline 02 Clatronic 23,35 Condor 30,35 Contec 02,07,19 Crown 02,35,38 Cybertron 21 Daewoo 02,36 Dainichi 21 Dayton 02 De Graaf 18 Decca 10
CS Electronics 19 CTC 23 Carrefour 07 Cascade 02 Cimline 02 Clatronic 23,35 Condor 30,35 Contec 02,07,19 Crown 02,35,38 Cybertron 21 Daewoo .02,36 Dainichi .21 Dayton .02 De Graaf .18 Decca .10 Dixi .02 Dual Tec .20
CS Electronics 19 CTC 23 Carrefour 07 Cascade 02 Cimline 02 Clatronic 23,35 Condor 30,35 Cortec 02,07,19 Crown 02,35,38 Cybertron 21 Daewoo .02,36 Dainichi 21 Dayton .02 De Graaf .18 Decca .10 Dixi .02 Dual Tec .20 Elite .21,30
CS Electronics 19 CTC 23 Carrefour 07 Cascade 02 Cimline 02 Clatronic 23,35 Condor 30,35 Contee 02,07,19 Crown 02,35,38 Cybertron 21 Daewoo .02,36 Dainichi 21 Dayton .02 De Graaf .18 Decca .10 Dixi .02 Dual Tec .20 Elite .21,30 Elta .02
CS Electronics 19 CTC 23 Carrefour 07 Cascade 02 Cimline 02 Clatronic 23,35 Condor 30,35 Contec 02,07,19 Crown 02,35,38 Cybertron 21 Daewoo .02,36 Dainichi 21 Dayton .02 De Graaf .18 Decca .10 Dixi .02 Dual Tec .20 Elite .21,30 Elta .02 Emerson .33
CS Electronics 19 CTC 23 Carrefour 07 Cascade 02 Cimline 02 Clatronic 23,35 Condor 30,35 Contee 02,07,19 Crown 02,35,38 Cybertron 21 Daewoo .02,36 Dainichi 21 Dayton .02 De Graaf .18 Decca .10 Dixi .02 Dual Tec .20 Elite .21,30 Elta .02
CS Electronics 19 CTC 23 Carrefour 07 Cascade 02 Cimline 02 Clatronic 23,35 Condor 30,35 Contec 02,07,19 Crown 02,35,38 Cybertron 21 Daewoo 002,36 Dainichi 21 Dayton 02 De Graaf 18 Decca 10 Dixi 02 Dual Tec 20 Elite 21,30 Elta 02 Emerson 33 Ferguson 15 Fidelity 19,33
CS Electronics 19 CTC 23 Carrefour 07 Cascade 02 Cimline 02 Clatronic 23,35 Condor 30,35 Contee 02,07,19 Crown 02,35,38 Cybertron 21 Daewoo .02,36 Dainichi 21 Dayton .02 De Graaf .18 Decca .10 Dixi .02 Dual Tec .20 Elite .21,30 Elta .02 Emerson .33

riniux10,13,32
Firstline
Fisher
Formenti
Frontech
Fujitsu
Funai
GEC10.20
GPM21
Geloso
Genexxa
GoldStar
Goodmans
Gorenje
Graetz
Granada
Grandin
Grundig
or unang
HCM02,26
Hanseatic
Hinari
Hisawa
Hitachi
Huanyu
Hypson
ICE
ICeS
ITT
Imperial
Inno Hit
Interfunk
Intervision
Isukai
ISUKdiZI
n/C
JVC
Kaisui02,19,20,21,26
Kathrein
Kingsley
Koyoda
•
Leyco
Lloytron
Luxor
Luxui
M Electronic
Magnadyne
Magnafon12
Manesht
Marantz
Matsui
Memorex

Mitsubishi
Mivar
Multitech02,12,19
Neckermann
Nikkai
Nobliko
Nokia
Normende
Tromicine
Oceanic
Orion
Osaki
Oso
Osume
Otake
Otto Versand
Palladium
Panama
Panasonic
Pathe Cinema
Pausa02
Perdio30
Phase
Philco
Philips
Pioneer
Profex
Proline
Protech
, , , , ,
Quelle
Questa
Questa
Rank Arena
Rediffusion
Rex
Roadstar
Noadstai
SEG
SEI
Saba
Saisho
Salora
Sambers
Samsung
Sandra
Sanyo04,07,10,18
Schaub Lorenz
Schneider
Sei-Sinudyne
Sentra
Sha 07.11

·
arem
emens
ver
nudyne
olavox
onitron
onoko
onolor
ony
oundwave
andard
ınkai
.sumu
ındy
ıshiko
itung
ec
echnema
echnics
elefunken
elemeister
eletech
eleton
ensai
exet
nomson
norn
omashi
oshiba
her
ltravox
niversum
inversum
deosat
deotechnic
sa
sion
/altham
/atson
/att Radio12
/ega07
/hite Westinghouse
oko

If you have no success with the code corrresponding to your TV set, please try again by entering one of the other remote control codes listed.



Suppressing interference

Optimizing the modulator

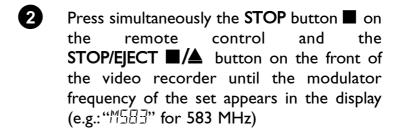
If the TV set and the video recorder are only connected with an aerial cable - rather than with an additional scart cable - it may happen that in certain reception locations the modulator frequency of the video recorder is occupied by a TV channel. As soon as the video recorder is switched on, the reception quality of the TV picture deteriorates. The following steps will show you how to overcome this problem.

What is a modulator?

The purpose of this electronic assembly inside your video recorder is to pass on the picture and sound information read in from the video tape via an aerial cable like a TV signal to the TV set. The modulator frequency determines the frequency range in which these signals are transmitted.



Switch the video recorder on and make sure there is no cassette in the video recorder



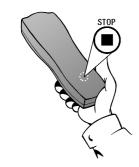
The video recorder will now transmit a test image on this frequency

Use ↓P- or ↑P+ to select the option "OPTIMIZE FREQUENCY" and enter a new frequency with the number buttons 0-9

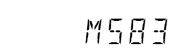
Which modulator frequency should I enter?

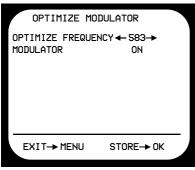
You can also make the video recorder search automatically for an appropriate frequency. To do so, simply hold down the button →. As soon as a free frequency has been found, it will be shown in the display. PROBLEM

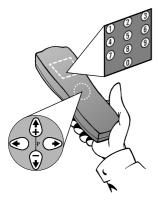
Tune the programme number of your TV set allocated for video use to the new modulator frequency until you see the test image sharply and in colour



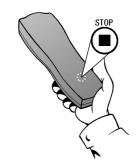






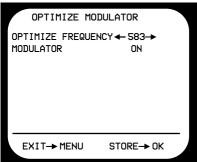


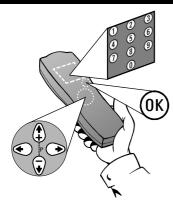












OK. In the display there will briefly appear "". The screen will show "STORED"

Switching off the modulator

If you have connected the video recorder to the TV set with a scart cable, you can switch off the modulator when there is interference with the picture or sound (see below).



Switching the modulator on / off

If picture and sound interference cannot be removed by optimising the modulator, the integral modulator can be switched off. Warning: this is only possible if you have connected the video recorder to the TV set with a scart cable. It is not possible to operate with the modulator switched off without a scart cable.

- Switch the video recorder on and make sure there is no cassette in the video recorder
- Press simultaneously the STOP button on the remote control and the STOP/EJECT ■/▲ button on the front of the video recorder until the modulator frequency of the set appears in the display (e.g.: "☐☐☐" for 583 MHz)
- The video recorder will now transmit a test image on this frequency
- 4 Use **♦P-** or **↑P+** to select the option "MODULATOR"
- Use → or ← to select the setting "ON" (Modulator on) or "OFF" (Modulator off)
- 6 Confirm with **OK**. In the display there will briefly appear "Ik". The screen will show the message "STORED"



Before you call an engineer

Problem	Possible cause / solution
Set no longer reacts when buttons are pressed	 ✓ The power supply has been interrupted / failed ✓ A programmed recording is running. Interrupt with the Standby button ✓ Child lock is activated: Switch this function off ✓ Technical interference: Remove the mains plug from the socket and reinsert it
The set is still not reacting, the display will show e.g. "FITI"	✓ Remove the mains plug from the socket, hold down the Standby button \circ on the front of the video recorder and reinsert the mains plug. When "—:—" or " $ \ \ \ \ \ \ \ \ \ \$
Cassette is jammed in video recorder	✓ Do not use force! Briefly remove the mains plug and then reinsert it
Remote control does not work	 ✓ Aim the end of the remote control at the display of the video recorder ✓ Remove the batteries from the remote control and wait a few seconds before replacing them ✓ Batteries weak or flat: Change the batteries
No playback from video recorder	 ✓ No recording on the cassette ✓ Select the TV programme number allocated to video operation ✓ Check that the TV channel number allocated to video operation is correct ✓ Cable connection loose/missing: Check the connections
Poor quality playback from video recorder	 ✓ Check the TV to make sure that the programme number allocated to video operation is correct ✓ Cassette worn/faulty ✓ Tracking not correctly adjusted: Carry out the "Optimizing tracking" function
No recording possible	✓ TV channel not stored or wrongly selected✓ Cassette with erase protection inserted
Programmed recording not working	 ✓ Storage position incorrectly/incompletely programmed ✓ Time/date not set correctly ✓ Cassette with erase protection inserted
Picture and/or sound interference in TV reception	 ✓ Optimize the modulator or switch it off (when using a scart cable) ✓ Check the aerial cable connection
TV reception still not perfect	✓The Department of Trade and Industry operates a specialist service to help TV licence holders improve reception of BBC and ITC programmes and to prevent interference. If your dealer cannot help, ask at a main Post Office for the booklet "How to improve Television and Radio Reception".
	_

TECHNICAL DATA

Dimensions in cm (W/H/D):

Energy consumption

Energy consumption (Low Power Standby)

Mains voltage:

Number of video heads: Number of audio heads:

Rewind / forward wind speed:

Recording / playback speed (E240 cassette):

38,0/9,3/26,0

16W < 4W

198-264 V / 50 Hz

4

I linear, 2 FM

approx. 100 seconds (E180 cassette)

SP (Standard Play) 4 Std., LP (Long Play) 8 Std.

Video recorder / display



I STANDBY/ON む

➤ Switch set on/off

➤ Interrupt function

➤ Interrupt programmed recording

2 AUDIO/VIDEO IN

➤ Connecting camcorder, video recorder, sound source (Programme number "☐☐X" or "☐ ☐")

3 RECORD ●

➤ Record

4 PROGRAMME +/-

➤ Select next/previous programme number/menu point

5 STOP/E|ECT ■/▲

➤ During playback: Stop tape

-/**-**

➤ In stop or standby mode: Eject tape

6 PLAY ► 7 < (Shuttle)

➤ Play back recorded cassette

► (Shuttle)

➤ In stop or standby mode: Rewind tape

,

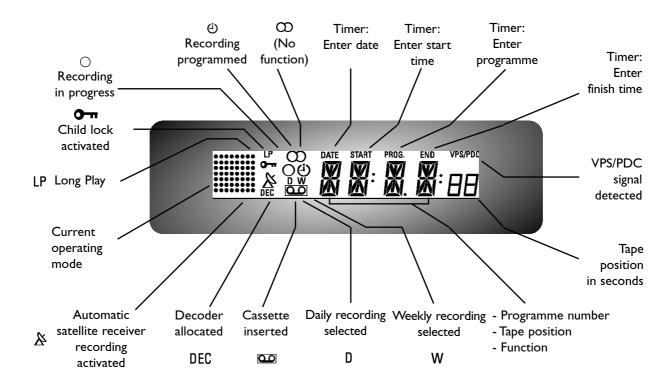
➤ During playback: Reverse picture search

)

In stop or standby mode: Forward wind tape
 During playback: Forward picture search

8 STILL ►I◀

➤ Still picture / slow motion



ENGLISH