CGRCGRDER GV 280 S VPT

Part 2

English

Contents



Archive System

Explanatory notes for the archive system	4
All possibilities at a glance	5
Semi-automatic post-archiving	6-9
Manual post-archiving	10-14
Finding out about the cassette contents and changing/erasing data in the archive	15-18
Searching for a title – according to category and/or keywords	19-23
Available recording capacity	24-25
"Flipping through" the archive	26
Creating a new category	27-28
Changing the cassette number	28



Fade Functions

Fading scenes in/out, with colour fading	34-36
Fading scenes in/out, with interframe fading	37-39

4. Superimpose Functions

Superimpose function	40-41
Genlockimpose function	42-43
Recording the superimpose and genlockimpose functions	44

5 Composing Title Pages

Progression of title composition	45
Fips for "composing title pages"	45-46
Example for "composing title pages"	47-50



2

6

Arranging Text/Graphics Boxes

Example of composing text/graphics boxes		51-55
--	--	-------

Contents

Page

56-58 59 60-63

7	The Multi-Audio System
	The recorder as a hifi audio tape recorder
	Simultaneous mix sound track
	Adding a sound track, dubbing, trick, mix

唐

8 Special Functions

Operation with a second recorder	64
Operation with a second S-VHS recorder	65
Operation with a camera recorder	66
Synchronized copying and editing without loss	67-68
Inserting new recordings at a later date (insert-cut)	69-70
Operation with a GRUNDIG satellite receiver	71-72
Copying with D 2-MAC decoder	73
Frame converter	73
Teletext operation with this recorder	74-75
Your recorder as a receiver	76
The combination lock	77
Calling up and changing the time and date	77
The recorder's continuous functions	78
Remote controlling the TV set	79
Remote controlling another GRUNDIG video recorder	80

Explanatory Notes for the Archive System

The GRUNDIG Archive System is an electronic notebook.

You can store up to 700 titles with additional information using the basic version of this system. The archive system can be expanded to 1400 titles. Inquire at your local electronics store.

While you are working with the archive system, the word BRCHIV will be displayed on the recorder.

For optimal use of the archive system, follow these instructions:

1. Automatic archiving

It is necessary that the total playing time and the cassette number have been correctly entered and recognized for you to be able to automatically archive your recordings. To check these data before recording and programming, press the routon.

for example, the following will appear in the display of your recorder:

a) $C \exists O : 2O =$ total playing time and elapsed playing time

 \mathbb{N}^2 100 = cassette number

The recorder is now set up for automatic archiving.

b) $\bigcirc \square$ — — — — — — total playing time

CASS Ma = a promt to enter the cassette number

Enter the three-digit cassette number with the numbered buttons 1... (for example 100) and confirm using the button.

The display indication a) will appear for a short time. The recorder is now set up for automatic archiving.

C)

CASSNS = a promt to enter the cassette number

Enter the three-digit cassette number with the numbered buttons 1 ... 0 (for example 1 0 0) and confirm using the button. If the cassette is already archived, the display indication a) will appear. If a new number was assigned, the display will show:

E = = a promt to enter the total playing time N= 100 = cassette number

Enter the three-digit total playing time (in minutes) with the numbered buttons $1 \dots 0$ and confirm with the \bigcirc button.

The display indication a) will appear for a short time. The recorder is now set up for automatic archiving.

2. Cassette number

The cassettes are organized in the archive according to numbers.

The cassette number is automatically recorded on the tape when you make a recording. After the tape has been measured (ATTS), the total playing time, the elapsed playing time and the number of the inserted cassette will appear in the recorder's display. A menu with the cassette contents will appear on your television screen.

You will always have to enter the cassette numbers for cassettes that have been archived after recording (post-archived cassettes). Enter the three-digit cassette number with the numbered buttons $1 \dots 0$ and confirm it with the is button. A table with the contents of the cassette will appear on your television screen.

Mark your cassettes with the same number as the number entered into the archive. This will make it easier to allocate the cassette requested by the recorder when using "Title Search".

3. Record programming

Use Variant 2 for programming stations that broadcast Teletext for recording.

For stations without Teletext, the title and category can be entered immediately using variant 3.

If you record over another recording, the recorder automatically updates any entries for this cassette in the archive.

This way your archive always has the most current information.

4. Title and category

You can organize your recordings into 15 different categories to have a better overview and to be able to locate titles quickly. You can assign names to 14 of the categories. If a category has an entry allocated to it, it cannot be changed.

The category "DIVERS" is reserved for immediate recordings and for recordings without title archiving. For these recordings the station abbreviation and the starting time will be stored in the archive as the title.

5. Calling up the cassette contents

You can call up the contents (title) of the cassette inserted into the recorder with the 🖃 button.

All Possibilities at a Glance

What do you want do to ?	You must do this	You will find the chapter on pages	Explanation
Archive the title of a new programme automatically	The station offers Teletext pages.	45-49 in the first part of the operating instructions.	Titles and data are transferred from the station's Teletext pages to the recorder's archive. The title and category can be changed later.
manually		50 - 57 in the first part of the operating instructions.	Works for all immediate TIMER recordings, also for stations that do not offer Teletext.
Archive the titles and data of your cas- sette collection semi-automatically	During recording "VISS "marks" were recorded.	6-9	The archive will list all "earlier" recordings. The starting and stopping points on the tape, and the archiving date, are automatically recorded. Titles can be entered and assigned to a category at a later time.
manually		10 - 14	Data about "earlier" recordings can be entered into the archive.
Find out about the cassette contents and changing data in the archive	Cassette has to be archived.	15 - 18	Quick inquiry about the contents of archived cassettes, for example title, additional information and selecting the title for playback.
Search for title, by cate- gory, and/or keywords	Cassette has to be archived.	19-23	Enter title, keyword or category, the recorder will indicate the search term and the cassette number after a short time.
Available recording space	Cassette has to be archived.	24-25	You can "ask" the archive how much "space" is left on the cassette for new recordings.
"Skim through" the archive		26	Provides information about the entire contents of the archive.
Create a new category	The "DIVERS" category cannot be changed. Categories which have already been given a title cannot be changed.	27-28	You can — to optimally designate a title — assign your own names to the categories.
Change the cassette number		28	

1. Archive System

Semi-Automatic Post-Archiving

To archive all of the recordings in your cassette collection. It is necessary, however, that the recordings were taped using a VCR that automatically "places" the marks before recording (VISS = Video Index Search System).

This is provided on all GRUNDIG video recorders manufactured from October 1989 on.

Preparation

Switch on your television set.

Select the AV programme position for the recorder on the television set.

Open the front cover of the recorder.



Press these buttons on the remote control handset

1. Insert the cassette





You will see this on your TV screen





This display will appear on the recorder:

C3 ----CASSNS

If a non-standard cassette was inserted, the total playing time of the cassette has to be entered with the numbered buttons 1 ... 0 and confirmed with the button (for example 2 1 0 for a cassette with 210 minutes playing time). It is also necessary to enter the playing time for the 5-hour E 300 cassettes.

2. Selecting function





1. Archive System Semi-Automatic Post-Archiving



Cass. Nº:

0

015

2

Titel wählen Ziellauf starten Archiv durchblättern Zusatzinformation

REC. 01 REC. 02 REC. 03 REC. 04 REC. 05 REC. 06 3

C3

5h

0:00

At the end of the tape, the recorder will rewind to the beginning. Now you can give titles to the recordings, as you wish.

1. Archive System Semi-Automatic Post-Archiving



1. Archive System Semi-Automatic Post-Archiving



Manual Post-Archiving

To archive all of the recordings in your cassette collection. Use the "manual post-archiving" for recordings that were taped using recorders without the VISS.

Preparation

Switch on your television set.

Select the AV programme position for the recorder on the television set.

Open the front cover of the recorder.



1. Insert the cassette



You will see this on your TV screen



This display will appear on the recorder :

CASSNA

End to distant

You will, however, not enter the cassette number until step 6.

If a non-standard cassette was inserted, the total playing time of the cassette has to be entered with the numbered buttons 1 ... 0 and confirmed with the button (for example 2 1 0 for a cassette with 210 minutes playing time). It is also necessary to enter the playing time for the 5-hour E 300 cassettes.

Since there can be small deviations in the playing time displays of different recorders, it is recommended that you compare the playing time data in your notebook to the beginning and ending of the respective recording.

You can execute this quickly with the search function.



Press these buttons on the remote control handset You will see this on your TV screen

Explanations

- 2. Checking the playing time (beginning and ending) of the individual recordings
- a) Entering the three-digit playing time



b) Starting the directed search



c) Ending playback



The recorder automatically winds the tape to the desired place and switches to playback.

Now check to see if the beginning or the end of the recording is shown on the screen. If so, these times can be entered into the archive system (see points 8 and 9).

If the beginning/end of the recording has not yet been reached, search for the position with the picture search funcion (but tons or) and enter the playing time that is indicated in the recorder's display into the archive system (see points 8 and 9).

Repeat this checking process for the following recordings, then you can begin the "manual post-archiving."

3. Selecting manual postarchiving







You will see this on your TV screen



Einenho d	or Condo	
Elligade u	er aparie.	
TATORT		
	Sparte:	
IVERS		
SPORT		
USIC		
I L M		
OBBY		
, > : Sparte : Sparte OK : bestali	wahien editieren gen	

Explanations

You can enter a title of up to 30 letters/ characters.

If you need upper-case letters, press the imp button before entering the letter.

If you need special symbols, switch over the keyboard of the remote control with the spec

The inserted piece of paper has a list of the available letters/characters.

When you need a space, press the space button.

Move the cursor to the left or the right with the \checkmark button or the \blacktriangleright button.

You can clear the text to the right of the cursor with the CL button.

If a "blank title" is stored, "REC." appears as the title.

5. Allocating a title to a category



		GRUNDIG Archiv-System
Eingabe d	er Sparte:	
TATORT		
	Sparte:	
DIVERS		
SPORT		
MUSIC		
FILM		
HOBBY		
^,> : Sparte : Sparte OK : bestäti	wähien editieren igen	

GRUNDIG Archiv-System Eingabe der Cassettennummer: TATORT Sparte: Cass.N*: Cass. Typ: FLM - E---Start: Stop: Datum: -,-- -,--,-- If you need to create a "new" category, you can assign a name to it yourself. Instructions to do this are on page 27, in the chapter "Creating a New Category".

After confirming, the cursor (\blacksquare) jumps to the first place of the cassette number.

Press these buttons on the remote control handset	You will see this on your TV screen	Explanations
6. Enter the three-digit cassette number	Image: Case of the case. The case of the case o	In the example, 0 1 7 for cas- sette number 17. The cursor (1) will jump to the first place of the cassette type. If titles are already archived under this cassette number, the archive accepts the total playing time and the last stopping point as the starting point for the next entry. The cursor (1) will jump to the first stop place. Continue with the instruc- tions from point 9.
7. Enter the three-digit cassette type	GRUNDIG Archiv-System Eingabe der Startzeit: TATORT Sparte: Cass.N*: PilLM 017 Start: Stop: Start: Stop: 1-0: Startpunkt eingeben <	In the example 210 for an E 210 cassette. The cursor (1) will jump to the first start place. If titles are already archived under this type of cassette, the cassette type cannot be changed.
8. Entering the three-digit starting point	GRUNDIG Archiv-System Eingabe der Stopzeit: TATORT Sparte: Cass.N! Sparte: Cass.N! Start: Stop: 0,00 1-0: Stoppunkt eingeben <:	With the starting time the tape position is marked where the recording begins. In the example, O O O for 0 hours, 0 minutes. The cursor (1) will jump to the first stop place.
9. Entering the three-digit stopping point	GRUNDIG Archiv-System Eingabe des Aufnahmedatums: TATORT Sparte: Cass.N*: Sparte: Cass.N*: Sparte: Cass.N*: Start: Stop: 0,00 0,45 1-0: Datum eingeben <:	With the stopping time the tape posi- tion is marked where the recording ends. In the example, () (4) (5) for 0 hours, 45 minutes. The cursor (1) will jump to the first place for the date.

.



Finding out about the Cassette Contents and Changing/Erasing Archive Data

The following information and functions are offered.

- Which and how many titles are on the cassette?
- Selecting titles for playback.
- Calling up additional information about the titles.
- Modifying data in the archive (title, category and date).
- Completely erasing the archive entries.

You also need this function when you have started a recording without title archiving (for example immediate recording) and you only want to change the title and category.

Preparation

Switch on your television set.

Select the AV programme position for the recorder on the television set.

Open the front cover of the recorder.



1. Selecting a function





You will see this on your TV screen





The prompt "Cass. N° ---" requests you to enter the number of the desired cassette.

2. Entering the three-digit cassette number |



Cass.	.N*:	N*: 005			
		1 2	2 3	 5 h	
8	TATO	श			
· · ·	: Titel : Ziella : Arch	wählen auf starter iv durchbi	lättern		-
- Serus	: Zusa	tzinforma	tion		

In the example, 0 0 5 for cassette 5.

If the cassette number hasn't been archived yet, the message: "Cass. N° 005 Kein Eintrag" (Cass. N° 005 No Entry) will appear.

The page will display the first six titles on the cassette.

15

1. Archive System Finding out about the Gassette Contents and Changing/Erasing Archive Data

5h

GRUNDIG

005

2



		GRUNDIG Archiv-System
Eingabe des	s Titels:	
TATORT	12.03.91	
Z : Zeichen	wählen	
> : Position	wählen	
CL : ab Curso	or nach rechts loso	chen

r Sparte:	
12.03.91	
Sparte:	
ählen ditieren	
	r Sparte: 12.03.91 Sparte: ahlen ditieren

Explanations

Using this page you can

- call up additional info (see point 3.1), or
- "skim through" the archive (see point 3.2), or
- select a title for playback (see point 3.3), or
- end a function (see point 3.4)

To go to the next page with more titles. press the 🕨 button.

The data for the selected titles are shown on the page.

You can now return to the menu with all the titles by pressing the ____ (blue) button. ٥r

change the additional info.

The title - with all its data - can be erased by pressing the CL button.

If you do not want to change the title or the data, press the OK button and continue with the instructions starting with point 3.1 d.

If you need upper-case letters, press the SHIFT button before entering the letter.

If you need special characters, switch over the keyboard of the remote control with the S-TYP button.

The inserted piece of paper has a list of the available letters/characters.

When you need a space, press the SPACE button.

Move the cursor to the left or the right with the 🖪 button or the 🕨 button.

You can clear the text to the right of the cursor with the CL button.

If a "blank title" is stored, "REC." appears as the title.

1. Archive System (Anding out about the Cassette Contents and Changing/Erasing Archive Data



17

1. Archive System Finding out about the Cassette Contents and Changing/Erasing Arebive Data



3.4. Ending the function



Necessary after the operating steps 1 to 3.2.

You will see the current TV picture.

Searching for a Title – According to Category and/or Keywords

You can find your archived titles with this function.

You can search based on different criteria. Depending on the entry, the Info page will display either the concrete title or a number of titles.

The diagram shows the search criteria and the possible combinations

Preparation

Switch on your television set.

Select the AV programme position for the recorder on the television set.

Open the front cover of the recorder.



Search acc. to category



1. Archive System Searching According to Category



Searching according to keyword or title

You have several possibilities:

Searching according to keyword

You do not have to enter the exact word sequence of the title. It suffices to enter a word or a part of a word that appears in any part of the title. It does not matter if you type in lower- or uppercase letters.

Example: Title sought "From Research and Technology"

Possible enteries for the search term

- "From Research and Technology", or
- "Research", or
- "Technology", or
- "Tech", or
- "nology".

The search is somewhat slower and many titles may be listed - depending on the search term.

Searching according to title

The search will be quick, but the title has to be entered exactly as it has been stored (including spaces). Only the title you are looking for will be shown.

Searching according to keyword/title and category

You can limit your search if you know which category your title is listed under.

The recorder will search for the keyword/title only in the selected category.



Press these buttons on the remote control handset

1. Selecting a function





You will see this on your TV screen







Select "Suche nach Stichwort" (Search acc. to keyword) from this page.

1. Archive System Searching According to Keyword or Title



1. Archive System Searching According to Keyword or Title



1. Archive System

Available Recording Capacity

You can find out how much room is left on the cassette for new recordings.

The recorder will show the archived cassettes, listed by number, below the indication of the cassette type and the available recording capacity.

With the directed search function you can go to the available portion of the tape in order to start a new recording there.

Preparation

Switch on your television set.

Select the AV programme position for the recorder on the television set.

Open the front cover of the recorder.



1. Selecting the function





You will see this on your TV screen





		GRUNDIG Archiv-System
Cass. Nº:	Cass. Typ	Rest
005	E 180	01.45
015	E 180	00.12
017	E 210	02.25
Keine w	eitere Cassette im	Archiv
	hlen arten ang stoppen zeichnis	

The recorder will list all archived cassettes.

The remaining playing time will be shown under the category "Rest".

Press the stop button to end listing of more cassettes.

1. Archive System Available Recording Capacity



3. Starting directed search

-+

4. Inserting cassette



0	1	2	3	4	5 h	
		GOT	O 1:05			
			Ziellauf			

Explanations

Rest

01.45

00.12

02.25

You can call up information on the selected cassette with the Dutton (blue).

You can switch back to the cassette overview with the button (blue).

For more cassettes switch to the next page with the 🕨 button.

The recorder will promt you to insert the appropriate cassette.

Enter the cassette with the appropriate number.

The recorder will wind the tape to the blank portion and then stop. You can start the next recording here.

1. Archive System

"Skimming through" the Archive

Preparation

Switch on your television set.

Select the AV programme position for the recorder on the television set.



1. Archive System

Creating a New Category

You can create a new category or change an existing category.

Preparation

Switch on your television set.

Select the AV programme position for the recorder on the television set.





You will see this on your TV screen



1. Selecting function



		Activ Oysterin
Auswahl der Sparte :		
	Sparte:	
DIVERS		
PORT		
USIC		
ILM		
OBBY		
> : Sparte : Sparte	wählen editieren	

2. Selecting category



Augwahl	dar Sparta :	
Auswahi	der Sparte:	
	Sparte:	
IVERS		
PORT		
USIC		
ILM		
OBBY		
> : Sparte	wählen	
> : Sparte	wählen	

You cannot change the "DIVERS" (MISC) category.

Select the category whose name will be changed or select an empty category. The selected category will be marked blue.

1. Archive System Greating a New Category



You will see this on your TV screen

Auswahl der Sparte :		
	Sparte	
IVERS	POLIT.	
PORT		
USIC		
ILM		
OBBY		
> : Sparte	wabien	

Explanations

You can enter 6 letters/characters for the title.

If you need upper-case letters, press the SHFT button before entering the letter.

If you need special characters, switch over the keyboard of the remote control with the $\underline{\text{supp}}$ button.

The inserted piece of paper has a list of the available letters/characters.

When you need a space, press the SPACE button.

Move the cursor to the left or the right with the \checkmark button or the \triangleright button.

Then you can store the name of the category.

You will see the current television picture

Changing the Cassette Number

This could be necessary if you want to record over an archived cassette and want to assign it a new cassette number.

Press the numbered buttons 8 5 9 6 consecutively and then press the OK button.

Enter the new three-digit cassette number with numbered buttons 1 ... 0 and confirm it with the 🖃 button.

Digital Picture Functions/ Video Effects for the Large Picture

With the digital picture functions you can ...

... optically change visible pictures on the screen.

The images can come from a TV programme, from another recorder or from a camera recorder.

You can record these pictures and also select another picture effect during recording.

... change pictures in the playback mode. This means you can add a second effect to an effect that has already been recorded.

The video effects cannot be used for SECAM television signals because, depending on the picture contents, there could be colour distortion or the function might not work.

Preparation

Switch on your television set.

Select the AV programme position for the recorder on the television set.

If desired, insert the recorded cassette.

Most of the buttons for the following functions are mounted on the inside of the remote control handset.

Storing and recalling a single image of a video recording

Press the button to start playback.

Press the MENC button to store the desired image. You will see the image on the screen for a short time and it will be stored automatically. The playback will then continue.

The image will be stored until you

- ... store a new image;
- ... select another digital picture function;
- ... select the small picture-in-picture function;
- ... select a fade function;
- ... select a superimpose function;
- ... select a genlock impose function;
- ... press the 🔳 button.

Press the DEMO button to call up an image. The image will appear on your television screen. The playback continues (not visible on the screen), and you can still hear the sound.

Press the CL button to switch back to playback.

Storing and recalling images from a TV programme

Select the desired programme on the recorder. You will see the selected programme on the screen (EE mode).

Press the MENC button to store the desired image (for example the lottery numbers).

The image will be visible on the screen for a short time and will be stored automatically, the recorder will then switch back to the television picture.

The image will be stored until you

- ... store a new image;
- ... select another digital picture function;
- ... select the small picture-in-picture function;
- ... select a fade function;
- ... select a superimpose function;
- ... select a genlock impose function;
- ... press the 🔳 button.

Press the EMD button to call up the image. The image will appear on your television screen. The TV broadcast continues (not visible on the screen), and you can still hear the sound.

Press the CL button to switch back to TV broadcast.

Digital freeze-frame

The picture visible at the moment will be "frozen".

Press the stop button to "freeze" the picture.

Press the sup button again to end the freeze-frame function.

Paint effect

The paint effect colours and shades the colour picture.

Press the PAINT button to activate the paint effect.

Press the PAINT button again to end the paint effect.

2. The Digital Picture Functions In Large Picture

Inverse effect

Positive images will be depicted as negative and the colours change.

Press the III button to activate the inverse effect.

Press the 💷 button again to end the inverse effect.

Image distortion effect

The height or width of images will be distorted. Press the 画 or 😰 button to activate this effect.

Press the 🔄 or 🗊 button again to end this effect.

Mirror effect

The images will be alternatively turned upside down or the top or bottom half of the picture will be mirrored.

Consecutively pressing the 💮 button causes: the bottom half of the picture to be mirrored, the top half of the picture to be mirrored, the entire picture will be mirrored, the entire picture to be depicted normally.

Mosaic effect

The mosaic effect breaks down the picture into grid points.

Press the web button to activate the mosaic effect.

The D button increases the mosaic effect, the grid points become larger.

The dbutton decreases the mosaic effect, the grid points become smaller.

Press the was button again to end the mosaic effect.

Strobe effect

With this effect, movements appear to be disjointed and jerky. Press the **International button** to select the strobe effect.

The Dutton increases the speed of the picture sequence.

The 🛃 button reduces the speed of the picture sequence.

Press the most button again to end the strobe effect

Zoom effect

You can select specific picture cutouts and then enlarge them (max. 16 times).

"Freeze" the picture with the stop button.

Press the 200M button. A frame will appear on the screen.

Move the frame with the \blacksquare , \boxdot , \blacksquare and \blacktriangleright buttons over the picture.

Press the 200M button repeatedly when you reach the part of the picture you wish to cut out until you reach the desired size (max. 16 times).

Press the CL button to end the zoom effect.

Combining digital picture functions

You can combine many of the picture functions described in this chapter.

To do this consecutively press the appropriate buttons for the desired effects.

Recording digital picture functions

Read the chapters on page 33 for instructions.

Ending the digital picture functions

Press the CL button.

Digital Picture Functions with Small Picture

The possibilities:

Fade in small picture,

Exchange small picture for large picture,

Exchange sound from small picture for large picture sound, "Freeze" small picture,

Move small picture,

Fade in nine small pictures from the same programme, Fade in nine small pictures from different programmes, Combine small pictures with video effects.

The small picture-in-picture fading can be done during the recorder functions "playback" and "EE mode" (loop through mode).

In the "EE mode" programmes or playback from other recorders or camera recorders are "carried" through your recorder and shown on your television set.

You can also record the digital picture functions with small picture.

Preparation

Switch on your television set.

Select the AV programme position for the recorder on the television set.

Open the front cover of the recorder.

If desired, insert a previously recorded cassette.

Preselection of the small picture source

With the small picture-in-picture function, a small picture will fade onto the picture on the television screen. You can select the source for the small picture.

Call up the Info page with the ind button.

The "MIX-Quelle" ("Mix Source") page will appear, the selected socket (Buchse) will be marked blue.

100	GRUNDIG TEXT-PROGRAMMING
	MIX - Quelle
AV-Buchse	
CV-Buchse	
CV S1 Buchse	vorne
CV S2 Buchse	hinten
wahien	
OK : spechem	

Select the desired small picture source with the T or button and store it with the M button.

The selected small picture source will appear "green" the recorder will automatically switch to the TV picture.

To see the picture of the selected source, the source has to be attached to the appropriate socket on the recorder.

Direct selection of the small picture source

First select the small picture source :

Select the different recorder programme positions with the numbered buttons $1 \dots 0$.

Fading in the small picture

Press the PIP button on the remote control handset.



2. Digital Picture Functions with Small Picture

"Exchanging" small and large pictures

Press the button. The small picture will turn into the large picture, the large picture will turn into the small picture.

Selecting the sound for the small picture

Press the 👀 button. You will hear the sound of the small picture.

Press I button again. You will hear again the sound of the large picture.

"Frozen" small picture-in-picture (freeze-frame)

Press the stop button.

Press the STOP button again to end this function.

Moving the small picture around the screen

With the \blacktriangle , \bigtriangledown , \triangleleft and \blacktriangleright buttons, the small picture can be moved anywhere on the screen.

Ending the small picture functions

Press the CL button.

Fading in nine small pictures (multi-scene)

Press the M-S button.

You will see nine small pictures from the same programme, eight freeze-frames with time lags, and a small picture in the middle of the screen with the current programme.

Each time you press the MS button, the eight freeze-frame pictures will be updated.

If you press the stop button the "moving" small picture will be "frozen" and the next small picture will show the current programme.

Repeatedly pressing the stop button will transfer the action over to the next small pictures.

Press the CL button to end the function.

Fading in nine programmes (multi-channel)

Possible only in the "EE mode."

Press the M-C button. Nine different programmes and their respective station abbreviations will fade onto the television screen.

If the station isn't transmitting a programme, no small picture will appear, and in the place of the station abbreviation you will see this symbol (2)?.

The small pictures will be consecutively updated in short intervals.

Press the $\underline{M \cdot C}$ button to progress the programmes in small pictures picture by picture (starting with the programme number in the recorder's display), each up to nine programmes.

If you want to select a specific station from the programme of ferings, enter the desired one- or two-digit programme position with the numbered buttons $1 \dots 0$.

You will see the selected programme as a large picture on the screen.

Press the CL button to end the function.

Combining the digital picture functions

You can also combine some of the video effects (see pages 29 and 30) with the small picture functions described in this chapter.

To do this press the buttons for the desired function.

Recording the Digital Picture Functions with your Recorder

Preparation

Switch on your television set.

Select the AV programme position for the recorder on the television set (serves as a monitor).

Open the front cover of the recorder.

Insert a cassette with sufficient playing time that can be recorded on/over.

Recording

Select the desired television programme with the numbered buttons $1 \dots 0$ and then press the PROGRAM \blacktriangle button, or select another programme source (for example a satellite receiver, camera recorder, etc.) with the corresponding buttons.

A picture/sound signal must always be present at the selected programme position/source.

Select the digital picture functions following the instructions on pages 29 to 32.

Press the **•** button longer.

The picture can still be modified during recording, except with the "exchanging" small and large pictures function (see page 32), which is only possible when in recording-pause mode.

Press the 👿 button to stop recording.

Recording the Digital Picture Functions with another Recorder

Preparation

Switch on the television set.

Select the AV programme position for the recorder on the television set (serves as a monitor).

Open the front cover of the recorder.

Attach the second recorder to the - € EURO-AV - socket.

Insert a cassette with sufficient playing time that can be recorded on/over.

Recording

Press the numbered buttons **8 5 4 7** consecutively and then press the OK button.

Insert a previously recorded cassette in your recorder and start playback by pressing the D button, or

select the desired TV programme with the numbered buttons 1 ... 0 and then press the PROGRAM (button.

Select the digital picture functions following the instructions on pages 29 to 32.

Start recording on the second recorder.

The picture can still be modified during recording, except with the "exchanging" small and large pictures function (see page 32), which is only possible when in recording-pause mode.

Stop recording on the second recorder.

After recording is finished, press the number buttons **B 5 4 6** consecutively and then press the OK button.

3. Fade Functions

The recorder offers you different options for fading recordings in and out.

You can join scenes to other scenes or fade out the end of a scene with a coloured screen and then fade in a new scene.

Fading Scenes In and Out with a Coloured Screen

The illustration shows the progression of a recording



Connection diagram



Preparation

Switch on the TV set and select the AV programme position for the video recorder.

Open the front cover of the recorder.

Insert a cassette with sufficient playing time that can be recorded on/over into the GV 280.

Insert a previously recorded cassette into the second recorder.

Open the remote control handset.

Presetting

Selecting the programme source (primary source) for the second recorder

To do this, press the www button repeatedly;

- ← EURO AV ↔ socket, display on recorder

VIDEO IN, L AUDIO R IN socket, display on recorder CW;

S-VHS IN, L AUDIO R IN socket, (front of rec.), display on recorder OV S1;

S-VHS IN, L AUDIO R IN socket, (back of rec.), display on recorder CV S2.

Setting the fade speed

You can determine how quickly the screen is faded in. The recorder has six different speeds.

Enter any one- or two-digit TV programme with the numbered buttons 1 ... 0, then press the PROGRAM 🔺 button. You will see the selected TV programme on the TV screen.

Press the 🔳 button.

A green screen will fade in - in the selected speed.

You can select a fade speed with the number buttons 1 to 6

- $\boxed{1}$ = ca. 1/2 second,
- 2 = ca. 1 second.
- 3 = ca. 2 seconds,
- 4 = ca. 4 seconds.
- 5 = ca. 8 seconds,
- 6 = ca. 20 seconds,

Confirm the selected speed with the X button.

A green screen will fade onto the television - in the selected speed.

Repeat this setting procedure until the desired fade speed has been reached.

Setting the colour intensity of the screen

You can modify the intensity of the preset colours. Enter any one- or two-digit channel number with the numbered buttons 1 ... O, then press the PROGRAM 🚺 button. You will see the selected TV programme on the TV screen.

Press one of the colour buttons (white) to (blue). A small picture will fade onto the TV screen - in the selected colour.

Set the colour intensity with the 🖪 or 💽 button. Changes are registered on the small picture.

Store the setting with the OK button, or terminate with the CL button.

The types of screens

You can choose from the following screens,

analog.

soft

this screen

analog screen





digital. soft



with this button





box larger

hox smaller



horizontal screen



vertical screen



shutter screen



After the screen has been selected, the display indication: FADE will appear.





More options – after selecting a screen

The different screen colours

You can choose from eight available colours with the colour buttons:

white, black, light blue, magenta (purple), red, green, yellow, blue.

The display indication : F B D E = 0 will appear on the recorder.

Selecting sound for the fade function

Basic setting: the sound will be recorded until recording stops.

If you want to fade out the sound with the picture, press the \blacksquare button. The display indication : $\Box \Box \Box \Box = \Box$ will appear on the recorder.

With the **Ab** button you can determine the exact time of sound fade-out, the sound will then be switched off.

Starting the coloured fade function

A preselected colour/sound fade mode is retained until a new fade mode is selected.

If you do not want to change the fade mode with options, you can activate the screen directly with one of the two buttons \square or \square .

- button: Starts the preselected colour/sound fade function.
- button: Starts the preselected colour/sound fade function and simultaneously switches the recorder to recording or recording-pause.

Precondition for this is that the recorder is in the recording-pause or recording-mode.

Example of re-recording with a coloured screen

The different possibilities are listed in the chapter on the previous page.

Select the programme source for the second recorder/camera recorder, by pressing the word button until the required programme source appears in the recorder's display.

Select the screen with the corresponding button. Select the screen colour with the corresponding colour button. Select automatic sound fade-out with the Imp button.

Start playback on the second recorder/camera recorder when you have located the desired scene. Press the **•** button longer to start recording on the GV 280.

When the scene ends: Activate the screen with the [H] button.

The scene and the sound will fade out, the selected coloured screen will fade in and the recorder will switch automatically to recording-pause.

Terminate the fade function with the CL button. You will see and hear the main source again.

Locate the next scene to be recorded and switch the camera recorder to playback-pause.

Press the 🖽 button.

The previously selected colour will appear on the picture screen without sound.

Start playback on the camera recorder.

Activate the screen with the **H** button. The recorder will automatically select record, the picture and sound will be faded in and recorded.

You can repeat this procedure as desired.

With the EHE) button you can "freeze" a screen during the fading process, the recording will "go" on. If you press the EHE button again, the fade process will continue.

Press the 👿 button to stop recording.
Fading Scenes In and Out, with Picture-to-Picture Fading

The illustration depicts the progression of a recording



Progression of the screen functions







Preparation

Switch on the TV set and select the AV programme position for the video recorder.

Open the front cover of the recorder.

Insert a cassette with sufficient playing time that can be recorded on/over into the GV 280.

Connect the video cameras to the recorder according to the connection diagram.

Select the programme source/input socket for camera 1 (primary source)

To do this, press the wor button repeatedly;

⊕ EURO AV ↔ socket, display on recorder AV;

VIDEO IN, L AUDIO R IN socket, display on recorder CV;

S-VHS IN, L AUDIO R IN socket, (front of rec.), display on recorder $\mathbb{OV} \otimes 1$;

S-VHS IN, L AUDIO R IN socket, (back of rec.), display on reorder ${\mathbb OVS2}$;

Jelect programme source/input socket for camera 2 (mix source)

Press the I- button.

The "Mix Quelle" (Mix Source) page will appear on the screen, the selected socket is marked.

100	GRUNDIG TEXT-PROGRAMMING	
	MIX-Quelle	
AV-Buchse		
CV-Buchse		
CV S1 Buchse	vorne	
CV S2 Buchse	hinten	
wählen		
OK : speichern		

Select the necessary socket with the $\mathbf{\nabla}$ or $\mathbf{\Delta}$ buttons, the name of the socket for the jack is marked (underlined in blue).

Activate the necessary socket by pressing the OK button. The name of the socket indication will become green, the page will be automatically turned off.

To fade over to the mix source, a unit must be connected to the corresponding socket of the recorder.

Setting the fade speed

You can determine how quickly the screen is faded in. The recorder has six different speeds.

Enter any one- or two-digit TV programme with the numbered buttons 1 ... 0, then press the PROGRAM button. You will see the selected TV programme on the TV screen.

Press the \square button. A green screen will fade in - at the selected speed.

You can select a fade speed with the numbered buttons 1 to 6:

- $\boxed{1}$ = ca. 1/2 second,
- 2 = ca. 1 second,
- \exists = ca. 2 seconds,
- 4 = ca. 4 seconds,
- 5 = ca. 8 seconds,
- $\mathbf{6}$ = ca. 20 seconds,

Confirm the selected speed with the 🗶 button.

A green screen will fade onto the television screen - at the selected speed.

Repeat this setting procedure until the desired fade speed has been reached.

The types of screens

You can choose from the following screens,

analog.

this screen

analog screen

EM)

soft



digital, soft







box larger



box smaller



horizontal screen



vertical screen



shutter screen



After the screen has been selected, the display indication: FADE will appear.

More options – after selecting the screen

Selecting sound for the fade function

Basic setting: the sound from programme source 1 (primary source) will continue to be recorded. If you want to fade in the sound from programme source 2 (mix source) along with the picture, press the **I** button.

With the 🛋 button you can also activate the sound fade-over directly.

Other effects

You can select additional effects for the mix source, for example, the paint effect (with the RND button) or the inverse effect (with the RDD button).

Exchanging programme source 1 (primary source) for programme source 2 (mix source)

To do this, press the 💷 button.

Starting the fade

A preselected colour/sound fade mode is retained until a new fade mode is selected.

If you do not want to change the fade mode with options, you can activate the screen directly with one of the two buttons \square or \square .

When the picture signal from programme source 1 (= the primary source) has ended after re-recording, the fading has to be started with the \mathbb{HE} button.

Example of recording with picture-to-picture fading

The different possibilities are listed in the chapters on the previous page.

Select the programme sources for camera 1 (primary source) and camera 2 (mix source).

Switch both cameras to camera operation.

Point the camera recorders at the desired objects. The pictures can be checked on the camera monitors.

Select the desired picture fading with the respective fading button. Select automatic sound fade-out/fade-in with the button. Select effects if desired.

Press the Dutton longer to start recording on the GV 280.

Using the selected screen and the selected options, you can fade recordings from camera 1 (primary source) and camera 2 (mix source). To do this, activate the screen at the desired scene with the **I** button.

The first scene will fade out with sound, the new one will fade in with sound.

You can repeat this procedure according to your preference — with the same or with another screen.

With the IHB button you can "freeze" the screen during the fading process, the recording "goes" on. If you press the button again the fade process will continue.

Press the 🕑 button to stop recording.

Following this example, you can, of course, join scenes that come from two video recorders.



with this button



Superimpose Function

You can modify any picture signal – from a TV programme, a second recorder or a camera recorder – and record it with your VCR or re-record it on another recorder.

Connection diagram

Open the front cover of the recorder.



Preparation

Switch on the TV set and select the AV programme position for the video recorder.

Selecting the programme source

Enter any one- or two-digit TV programme with the numbered buttons 1 ... and then press the PROGRAM A button,

or

select the picture/sound signal from an external source (for example, a second VCR or a camera recorder) by repeatedly pressing the web button until the necessary display appears on the recorder.

- → EURO AV → socket, display on recorder 🖽;

VIDEO IN, L AUDIO R IN socket, display on recorder CU;

S-VHS IN, L AUDIO R IN socket, (front of rec.), display on recorder $\mathbb{CV} \oplus 1$;

S-VHS IN, L AUDIO R IN socket, (back of rec.), display on recorder CU S 2.

Selecting the superimpose function

With the $\boxed{1}$ – button lighter parts of the picture will be frozen in a mask. The darker parts of the mask will be transparent; or

with the \mathbf{IR} - button, the darker parts of the picture will be frozen in a mask. The light parts of the mask will be transparent.

Display on recorder: IMP and a number between 0 and 100.

The number indicates the mix ratio between the mask and the playing scene.

Display : 100 % of the picture parts are the playing scene;

Display $I \bigcirc \bigcirc$: 100% of the picture parts are the mask.

After the function has been selected the current scene is "frozen". You will see a combined picture with the playing scene and the frozen picture mask.

Changing the picture signal

You can change the picture composition with the **I** and **D** buttons.

You can fade "directly" from the frozen picture to the playing scene.

Press the OK button to store the set value.

Superimpose function with colour

You can also apply colour to the frozen picture. Select the desired colour with the colour buttons (white) to (blue) when in the superimpose function. The frozen picture parts will be coloured. With the () and () buttons you can cross-blend "directly"

between the frozen colour picture and the playing scene. You can modify the colour itensity (see page 35).

The colour can be switched off again by pressing the **I** button or the **I** button.

Other effects

You can select additional effects along with the superimpose function, for example, the paint effect (with the $\square \square$ button) or the inverse effect (with the $\square \square$ button).

By pressing the stop button the frozen mask will be replaced as playing picture.

If you press the stop button again, the playing scene will be frozen as a mask which can be modified.

Superimpose with demo

If a picture has been stored with which, this picture will be available as a mask for the superimpose function. To call up the picture, press the which button and then the the the picture.

Recording the superimpose function

Read the chapter on page 44 for recording instructions.

Ending the superimpose function

Press the 💷 button.

Genlock Impose Function

You can superimpose any two picture signals of a primary and mix source (e.g. two camera recorders), and record them on your recorder or re-record them onto a second recorder.

Progression diagram



Connection diagram

Open the front cover of the recorder.



Preparation

Switch on the TV set and select the AV programme position for the video recorder.

Selecting a programme source ...

A signal source that deviates from the 625-line norm (for example a 624-line norm PAL signal) has to be connected as a "Mix Quelle" (Mix Source).

A 625-line PAL signal always has to be used for the primary source (for example, a VCR or camera recorder).

... for the first picture/sound signal (primary source)

for example, enter a one- or two- digit TV programme with the numbered buttons 1 ... and then press the PROGRAM button:

10

Select a picture/sound signal from an external source (for example, a second VCR or a camcorder),

by pressing the web button repeatedly until the necessary display appears on the recorder:

→ EURO AV → socket, display on recorder AV;

VIDEO IN, L AUDIO R IN socket, display on recorder CV;

S-VHS IN, L AUDIO R IN socket, (front of rec.), display on recorder $\mathbb{C} \cup \mathbb{S}$ 1 ;

S-VHS IN, L AUDIO R IN socket, (back of rec.), display on recorder $\mathbb{CUS2}$

... for the second picture/sound signal (mix source)

Press the if button.

The menu "Mix-Quelle" (Mix Source) will appear on the screen, the selected socket is marked.

122	GRUNDIG TEXT-PROGRAMMING
	MIX-Quelle
AV-Buchse	
CV-Buchse	
CV S1 Buchse	vorne
CV S2 Buchse	hinten
> √ : wählen	
OK : speichern	

Select the necessary socket (Buchse) with the I or button, the indication is marked (underlined in blue).

Activate the necessary jack by pressing the OK button, the socket indication will become green and the page will be automatically switched off.

To fade in the mask of the mix source, a unit must be connected to the corresponding socket.

Selecting the genlock impose function

Press the 💶 button.

The lighter parts of the mix picture source will be depicted as a mask. The dark parts of the picture will appear transparent. or

Press the 💷 button.

The dark parts of the picture from the mix source will be depicted as a mask. The light parts of the picture will appear transparent.

Display on recorder: GEN and a number between \bigcirc and $I \bigcirc \bigcirc$.

The number indicates the ratio between the mask and the playing scene.

Display 0: 100% of the picture parts are the playing scene;

Display $I \odot \odot$: 100 % of the picture parts are the mask.

You will see the playing scene from the camera recorder 1 (primary source) as well as the playing scene of the camera recorder 2 (mix source).

Changing the picture signal

With the \checkmark and \blacktriangleright buttons you can cross-blend "directly" between the mix and primary sources. You can store the set value by pressing the OK button.

Genlock impose function with colour

Select the desired colour with the colour buttons (white) to (blue) when in the genlock impose function. The parts of the frozen picture will be coloured.

With the **I** and **D** buttons you can cross-blend "directly" between the primary picture source and the second colour picture source.

The colour can be switched off again by pressing the **I** or **II** buttons.

With the Jb button you can determine the exact time of sound fade-over onto the mix source.

Other effects

You can select additional effects along with the genlock impose function, for example the paint effect (with the with button) or the inverse effect (with the with the button).

You can freeze the depicted mask (Mix Source) by pressing the stop button. As described above, the mask can be modified. If you press the stop button again, this status is ended.

Exchanging the picture sources

Both picture sources can be exchanged by pressing the button. This might be necessary, for example, if a 624-line picture source was used as the primary source.

Ending the genlock impose function

Press the CL button.

Recording the Superimpose/Genlock Impose Function — with your Recorder

Preparation

Switch on the television set.

Select the AV programme position for the recorder on the television set (serves as a monitor).

Open the front cover of the recorder.

Insert a cassette with sufficient playing time that can be recorded on/over.

Recording

Select the desired TV programme with the numbered buttons and then press the PROGRAM button; or select another programme source (for example a satellite receiver, camera recorder, etc.) with the corresponding button.

There must always be a picture/sound signal at the selected programme position.

Select the digital superimpose or genlock impose functions, following the instructions on pages 40 to 43.

Start recording by pressing the **•** button longer. The picture can still be altered during recording.

top recording by pressing the 🔳 button.

Recording the Superimpose and Genlock Impose Function – with another Recorder

Preparation

Switch on the television set.

Select the AV programme position for video playback (serves as a monitor).

Open the front cover of the recorder.

Connect the second recorder to the \oplus EURO-AV \oplus socket.

Insert a cassette that can be recorded on/over into the second recorder.

Recording

Press the numbered buttons **8**547 on your recorder consecutively and then press the **OK** button.

Insert a previously recorded cassette into your recorder and start playback by pressing the 🕨 button, or

select the desired TV programme with the numbered buttons $1 \dots 0$ and then press the PROGRAM \blacktriangle button.

Select the superimpose or genlock impose function, as described on pages 40 to 43.

Start recording on the second recorder. The picture can still be altered during recording.

Stop recording on the second recorder.

After re-recording, press the numbered buttons **8 5 4 6** consecutively and then press the **OK** button.

You can compose "title pages" with this recorder and the remote control handset.

They can be used, for example, for processing holiday film that were taped with a camera recorder.

You can compose, store and, at the desired position, record three "title pages" on a "holliday cassette".

Progression of Title Composition



Tips for "Composing Title Pages"

A "title page" can consist of max. 828 visible picture points.

It can be assembled as 36 picture points per line and 23 lines.

The first three cursor symbols on the left-hand side of the picture are not visible and are used for presetting the cursor in the colour of the basic functions, large/small and the background colour of the title page.

Therefore, the cursor always begins to write at the same position, set at the width of these three symbols.



5. Composing Title Pages

If the the GRAPH function (GPH lights up in the display on the remote control handset) is entered as the first function in the top left at the beginning of the line, it is not necessary to enter any more blank spaces.

If, however, at the beginning of the line, additional functions

- CON GRAPH = Block graphics
- SEPAR GRAPH = Point graphics

RELEASE GRAPH = Repeating of characters is removed

FLASH = letters/characters blink

are selected along with the GRAPH function, another cursor position will be occupied with a blank space. This means that there will be a space the width of a cursor at the beginning of the line or a gap after a word or letters.

If you switch from letters to graphics entry, a space will be inserted for the graphics priority. If you position the cursor at this space, you will switch back to script entry.

This switching process can also be reverted to the previous mode, and, as not desired, can also transform script into graphics characters or graphics into script characters.

This means that when special characters are used, one or several blank spaces are created.

If words or graphics symbols are written in different colours, or if you change the colour of a line or the background more than once, entire words or graphics symbols could become invisible if the colour is the same.

If you are in graphics entry mode and the colour of the cursor changes in the graphics line, a colour command symbol will be set as a space.

This space cannot be written over or erased with the CL button. It it possible, however, to write over it in another text colour by setting a new colour command symbol.

With the sime button and the button (green), you can erase the entire line to the right of the cursor. This is necessary to avoid undesired effects which could result from possibly existing colour command symbols.

If a frame is to be made, e.g. in point or line graphics, make sure to follow this sequence!

The graphics page to be created must be switched over into graphics mode with the fearsh button, before editing begins.

If this is not carried out in the sequence described below, the cursor will be moved to the lower edge, and moved a space, after each new line is entered. Example: which button, button (green) for the background colour, the sum button and end with the button.

The background will now appear in green and the cursor begins in the graphics mode.

To chose another background colour, the first step is to begin with the even button.

If the user writes in the top third of the screen first with text lines and then with graphics symbols, the rest of the page can be worked on in the graphics mode, after switching over to graphics mode (as described in the above paragraph).

If you want to put a border around individual letters, the right side of the border should only be created once the desired script, written in shape and colour, has been created in the graphics box.

Example for "Composing Title Pages"

Preparation

Switch on the television set.

Select the AV programme position for video playback on the televison set (serves as a monitor).

Calling up the text page

Call up the "Info" page with the INFO button.

Select the "Sonderfunktionen" (Special Functions) line from the "Info" page with the numbered button 4.

Select the "Text-Generator" line from the "Sonderfunktionen" page with the numbered button 1.

The "Text-Generator" page will appear and the "Text-Generierung" (Text Generation) is marked blue.

100	GRUNDIG TEXT-PROGRAMMING
	Text-Generator
Text-Generierung	
Uhr/Datum Einblendung	-
Untertitelaufnahme	-
> y : wählen	
OK : aktivieren	
NFO Info	

Activate "Text-Generierung" with the OK button.

The page "Titelseiten-Generierung" (Title Page Generation) will appear, "EDIT" on the top Info line indicates that you can now create title pages.

The cursor will be positioned in the upper left-hand corner of the screen.



Open the remote control handset. Level 1 is now switched off.

Moving the cursor

You can move the cursor to the desired position on the screen with the \blacktriangle , \bigtriangledown , \triangleleft and \blacktriangleright buttons.

Selecting the colour of the background for a line

Press the colour button 🔲 (black)

(DIAUN),
(red)
(green)
(yellow)
(blue)
(magenta)
(light blue)
(white)

then press the 📖 button.

The first line will appear in the selected colour. The cursor will automatically appear in a contrasting colour, or

... for the entire page (from cursor position down)

Press one of the above-mentioned colour buttons, then press the SHIFT button and then press the ESS button.

The entire page will appear in the selected colour.

The cursor will automatically appear in a contrasting colour.

If you want to change the colour again, repeat the above entries.

The "new" colour will appear for a line or, from the cursor position down, for the entire page. The "old" background will be covered with the "new" one.

If no colour has been chosen the background will be black and the text and graphics will be white.

Selecting the colour of the letters/characters

Select the colour of the letters/characters with one of the above-listed colour buttons.

Composing Title Pages

Entering texts

With the A. T. and b buttons you can set the position of the cursor on the screen.

Enter your text with the letter and number buttons on the remote control handset.

The illustration shows the buttons with their entry possibilities.

For capital letters, you have to press the SHIFT button first.

	010 2N3			
	T 📼		0	
	D a	i i i	2 📖 🤅	
SHIFT	Gint Gi	SPACE) (2049) (20	P RETURN



Switch the buttons on the remote control handset over to graphics entry with the \fbox button.

The indication SPH will remain in the display of the remote control handset while you are in the graphics mode.

The illustration shows the buttons with their entry possibilities for graphic symbols. You have to press the <u>SHIFT</u> button to access the characters in the top rows.

After a graphic symbol has been entered, the cursor does not
automatically go to the next position.
Move the cursor to the desired position with the \triangleright , \triangleleft ,
▲ or ▼ buttons.

To switch back to text entry press the whether again.

Entering special characters

To switch the buttons on the remote control handset over to the special characters (one character at a time), press the stree button.

This will light up in the display of the remote control handset: S-E.

5-E will disappear after every entry.

The illustration shows the buttons with their functions for special characters. You have to press the <u>SHIFT</u> button to access the characters in the top row.





You will find additional functions on the next page.

Additional functions for entering text, graphics and special characters

Button	Function
stiff and (black)	erases all entries on an editing page
RETURN	new, next line
SPACE	a blank space
strf and (green)	clears a complete line from the cursor position on
PECH1	doubles the height of the letters/characters in a line, press the button again to end the function
SHIFT	capitalizes the next letter, next graphic symbol is negative
50T	capitalizes all following let- ters, all following graphic symbols negative
CL	clears the letter/character that the cursor is on
(TLASH)	letters/graphic characters "blink" from the cursor position on
SIFAD	ends the "FLASH" function

Additional functions for entering letters

Button	Function for text entries
s™P and (light blue)	clears a complete line, text moves up
s™ and (yellow)	inserts a line, the text is moved down
S-TYP and (white)	cursor jumps to the first line
S-TYP and (red)	cursor jumps to the beginning of the line
S-TYP and (magenta)	cursor jumps to the last line
STP and (blue)	cursor jumps to the end of the line

Additional functions for entering graphics characters

Button	Function for graphics entries
- ALI-N	repeats the character last entered
TIME .	ends the "HOLD GRAPH" function
	switches to "point graphics" switches to "block graphics"

Saving texts/graphics

Press the OK button, then select the memory position for the page by pressing the numbered buttons 1...3. The selected memory page will be shown in the "top" Info line.

By pressing the numbered button , you can switch back to the editing page, the page will not be saved.

Save the title page with the OK button. The title page is filed in the selected memory position. The "Titelseiten-Generierung" (Title Page Generation) page will appear, ready for more entries.

Calling up a stored title page

Press the $\boxed{\text{TP}}$ button, then call up the desired title page with the numbered buttons $\boxed{1}$... $\boxed{3}$.

The page will appear and the page number is faded into the "top" Info line.

Press the TIP button again and the selected page will be "loaded" onto the editing page, and can then be modified. Then store the page as described in the preceding chapter.

Recording the title page on the tape

Exit the editing page by pressing the INFO button twice.

Insert a cassette.

The recorder will automatically determine if an S-VHS or VHS cassette is being used.

If you want to record VHS on an S-VHS cassette, press the swe button (SWIS) will disappear from the display).

Locate the place on the tape where the title page is going to be inserted while in playback mode.

At this place on the tape, press the **II** button (playbackpause), then press the **I** button longer (recording-pause).

Call up the stored title page by pressing the numbered buttons 1, 2 or 3 and then press the TIP button. The title page will appear on the TV screen.

Start recording by pressing the **•** button. The title page will be recorded on the tape, the "old" recording will be erased.

By pressing the TIP button the recorder will switch to recording-pause and the next title pages can be called up.

Press the 🔳 button to stop recording.

5. Composing Title Pages

Changing a stored title page

Call up the "Info" page with the INFO button.

Select the "Sonderfunktionen" (Special Functions) line from the "Info" page with the numbered button $\boxed{4}$.

Select the "Text-Generator" line from the "Sonderfunktionen" page with the numbered button 1.

The "Text-Generator" page will appear, the "Text-Generierung" (Text Generation) line is marked blue.

Activate the function with the OK button. The "Titelseiten-Generierung" (Title Page Generation) page will appear.

Press the TIP button, then call up the title page with the appropriate numbered buttons $1 \dots 3$.

The page will appear, the page number is faded into the top Infoline, to the right.

If you press the TP button again, the selected title page will load onto the editing page and can then be modified.

After the title page has been modified, press the OK button to store it.

Select a new memory position (or an old one, if you want to write over it) by pressing the numbered buttons

The number of the selected title page will fade into the top Info line, to the right.

Store the title page with the OK button.

The modified title page is filed in the selected memory position. The "Titelseiten-Generierung" (Title Page Generation) page will appear, ready for more entries. You can add texts and graphics to already existing recordings - for example a holiday movie. Your holiday movie scenes will not be erased.

The holiday movie is recorded with your recorder from a second recorder or a camera recorder. You can compose the text/ graphics boxes with the remote control handset and this recorder.

Both signals will then be re-recorded together.



Connecting

Connect a second VHS video recorder to the $- \odot$ EURO-AV \bigcirc socket or connect a VHS camera recorder to the VIDEO IN and AUDIO IN sockets (on the back of the rec.).

Open the front cover of the recorder.

Connect an S-VHS video recorder or an S-VHS camera recorder to the S-VHS IN and AUDIO IN sockets (on the front of the rec.).

Preparation

Insert a blank cassette into your recorder (GV 280). Insert the previously recorded cassette (onto which the text/ graphics boxes are to be taped) into the second recorder or camera recorder.

Start playback on the second recorder or camera recorder.

Selecting the programme source

To do this, press the AVICY button repeatedly;

← EURO AV ↔ socket, display on recorder AV;

VIDEO IN. L AUDIO R IN socket, display on recorder CV;

S-VHS IN. L AUDIO R IN socket, (front of rec.) display on recorder $OV \otimes 1$;

S-VHS IN. L AUDIO R IN socket, (back of rec.) display on recorder CV S2.

Example of Composing Text/Graphics Boxes

Call up the "Info" page with the INFO button.

Select the "Sonderfunktionen" (Special Functions) line from the "Info" page with the numbered button 4.

Select the "Text-Generator" line from the "Sonderfunktionen" page with the numbered button 3.

The "Text-Generator" page will appear, the "Text-Generierung" (Text Generation) is marked blue.

102	GRUND:G TEXT-PROGRAMMING
	Text-Generator
Text-Generierung	
Uhr Datum - Einblendung	-
Untertitelaufnahme	
utilen	
e anderi	
OK aktiveten	

Activate the "Text-Generierung" (Text Generation) line with the **CK** button.

The "Titelseiten-Generierung" (Title Page Generation) page will appear, "EDIT" in the top Info line indicates that text/graphics boxes can be created.

The cursor is positioned in the upper left-hand corner of the screen.



Open the remote control handset. Level 1 is now switched off.

Press the BOX button.

The picture from the second recorder or camcorder will also appear on the televison screen.

Selecting the colour of the background ...



then press the 📖 button.

This first line will appear in the selected colour. The cursor will automatically become a contrasting colour. or,

... for the entire text/graphics box (from the cursor position down)

Press one of the above-listed colour buttons, then press the suffer button and then the above button.

The entire text/graphic box will appear in the selected colour. The cursor will automatically become a contrasting colour.

To change the colour again, repeat these entries.

The "new" colour will appear for a line or, starting at the cursor position, for the entire box.

The "old" background will be covered by the "new" background.

If no colour is chosen, the background will be black and the texts and graphics will be white.

Selecting the colour of the letters/characters

Select the colour of the letters/characters with one of the above-listed colour buttons.

The cursor will appear in the selected colour.

Entering texts

With the \blacksquare . \blacksquare and \blacktriangleright buttons you can set the position of the cursor on the screen.

Enter your text with the letter and numbered buttons on the remote control handset.

The illustration shows the buttons with their entry possibilities.

For upper-case letters, you have to press the SHIFT button first.



SHIFT	SPACE	RETURN

Entering graphics

Switch the buttons on the remote control handset over to graphics entry with the GRAPH button.

The indication GPH will remain in the display of the remote control handset while you are in the graphics mode.

The illustration shows the buttons with their entry possibilities for graphic symbols. You have to press the symbols in the top row.

After a graphic character has been entered, the cursor does
not automatically go to the next position.
Move the cursor to the desired position with the \triangleright , \triangleleft .
▲ or ▼ buttons.

To switch back to text entry press the GRAPH button again.

Entering special characters

To switch the buttons on the remote control handset over to the special characters (one character at a time), press the subton.

This will light up in the display of the remote control handset: S-E.

5-E will disappear after every entry.

The illustration shows the buttons with their functions for special characters. You have to press the **SHIFT** button to access the characters in the top row.





You will find additional functions on the next page.

Additional functions/variants

Button	Function for graphics entries
SHIFT	next character negative
5x471 100	all following characters negative
CL	erases character at the cursor position
smf and (green)	erases a complete line starting at the cursor position
SPACE	a blank space
90.2	switches the keyboard over to the special characters
RETURN	new, next line
	doubles the height of the letters, characters in a line press the button again to end the function
FLASH	letters "blink" from the cursor position on
CALLER .	Ends the "FLASH" function
NG S (2,494	repeats the character last entered
E an Tart	Ends the "HOLD GRAPH" function
SIAM CALL	switches to "point graphics"
	switches to "block graphics"

Inserting text/graphics

To do this, move the cursor to the desired position with the \blacktriangleright , \bigtriangledown , \checkmark , and \blacktriangle buttons and enter the "new" text or the "new" character.

The right edge of the text/graphics box will "adjust" automatically to the amount of text/graphics.

Increasing the text/graphics box to the right — without adding text

To do this, press the SPACE button.

Ending composing of text/graphics boxes

Press the BOX button once all changes have been made. "POS." will appear in the upper right-hand corner of the screen (= positioning).

Positioning a text/graphics box

Fast rewind the second recorder or camera recorder and, in the playback mode, locate the position where the text/graphics box is to be inserted.

Then switch the second recorder or camcorder to playbackpause (= freeze-frame).

With the **D**, **A**, **A** and **V** buttons you can position the text/graphics box on the screen where it is going to be taped on your holiday movie.

Storing a text/graphics box

Press the OK button.

Select the memory position by pressing one of the numbered buttons $1 \dots 3$.

The selected memory position will be shown in the "top" Info line.

Press the number button **o** to switch back to the editing page, the page was not saved.

Store the text/graphics box with the OK button.

The text/graphics box is now filed in the selected memory position.

The "Titelseiten-Generierung" (Title Page Generation) page will appear, ready for more entries.

Press the INFO button twice to exit the editing page.

You will now see only the picture from the second recorder or camera recorder on the screen.

Recording a text/graphics box and your holiday movie together

Call up the text/graphics box by pressing one of the numbered huttons 1 ... 3 and then press the <u>TIP</u> button. The text/graphics box will fade onto the picture of the second recorder or camera recorder.

Make sure you have the correct norm S-VHS or VHS!

Press the 💽 button longer to start recording.

The picture from the other recorder/camera recorder and the text/graphics box will be recorded.

Press the IP button to stop the text/graphics box recording. The picture from the other recorder/camera recorder will still be recorded.

Press the 🛄 button to stop recording.

Changing stored text/graphics boxes

Call up the "Info" page with the INFO button.

Select the "Sonderfunktionen" (Special Functions) line from the "Info" page with the numbered button $\boxed{4}$.

With the numbered button <u>select</u> the "Text-Generator" line from the "Sonderfunktionen" page.

The "Text-Generator" page will appear, the "Text-Generierung" (Text Generation) line is marked blue.

Activate the function with the OK button.

The "Titel-Generierung" ("Title Generation") page will appear, "EDIT" in the top Info line indicates that the text/graphics box can be changed.

Press the TIP button, then call up the desired text/graphics box with the numbered buttons $1 \dots 3$.

The text/graphics box will appear, the page number will fade into the "top" Info line.

If you press the TIP button again, the selected text/graphics box will be "loaded" onto the editing page. The box can be modified, positioned and stored on the editing page.

Your recorder has two different recording and playback systems for sound:

the hifi (helical) track,

for stereo and two-channel recordings;

therefore, this VCR can also be used as a hifi tape recorder with which you can record and play hifi sound of the highest quality.

the mono (longitudinal) track,

for sound playback on standard VHS recorders and for adding trick sound, adding trick (mix) sound, dubbing and adding dubbing (mix) sound.

With this track you can add a new sound track to your recordings. The sound can be recorded from a hifi unit, from a cassette recorder or a CD player, from two microphones or from another VCR.



Connecting

Open the front cover of the recorder.

Connect a hifi unit to the AUDIO sockets with a commercial phono cable (back of the recorder).

 $R \oplus L =$ sound input, R = right channel, L = left channel; $R \oplus L =$ sound output, R = right channel, L = left channel.

Connect two microphones or a stereo microphone (with 6.3 mm ø plug) to the L $i\!O$ R IN sockets.

Connect a mono microphone to the L ID IN sockets.

Connect a cassette recorder or CD player with a commercial phono cable to the L AUDIO R IN sockets.

Connect headphones (with 6.3 mm ø plug) to the @ OUT socket.

Preparation

Switch on the hifi unit and select the sound source (for example CD player, cassette recorder, etc.).

Insert a cassette with sufficient playing time into the recorder.

It is recommended to switch the hours/minutes display to the "tape length display", which is 6 places, by pressing the button.

The "tape length display" can be set on \bigcirc : \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc by pressing the number buttons \bigcirc on the remote control handset and then pressing the \bigcirc button.

The Recorder as a Hifi Audio Tape Recorder

As long as there are no other instructions, execute the following functions with the buttons and controls on the recorder. The controls can be released by pressing on them.

Recording sound from a hifi unit

Press the first button (= loop-through mode). You will see this on the recorder : $\exists I$. The sound level will be automatically selected.

Selecting the sound level manually (if desired)

Press the \Box AUTO MAN button, you will see this indication on the recorder: MAN. Then turn the \bigcirc MASTER control to the right until the first red mark (+ 1 dB) lights up when the sound is at its loudest.

Selecting the longplay mode (if desired)

Press the LP button. You will see this in the recorder's display: LP, the playing time of the cassette will double.

Starting sound recording

Press the **D** button longer.

Sound recording-pause Press the **III** button.

Continuing sound recording Press the • button.

Stopping sound recording Press the D button.

Sound recording from several sources

You have the possibility of recording sound from three sources. From a hifi unit that is connected to the AUDIO R \odot L sockets (on the back of the recorder);

from a cassette recorder or CD player that is connected to the AUDIO IN L R sockets (on the front of the recorder);

from two microphones that are attached to the L \square R I sockets (on the front of the recorder).

Press the His button (= loop-through mode).

Press the D MIX button. You will now hear the sound from the hifi unit, from the cassette-recorder/CD player or from the two microphones.

Mixing and selecting the sound ratio:

Turn the O MASTER control to the right until it stops.

Select the sound from the hifi unit with the \bigcirc LINE control; select the sound from the cassette recorder or CD player with the \bigcirc Hi-Fi control;

select the sound from both microphones with the \bigcirc $_$ control,

control released = right channel, control released and pulled = left channel.

When the sound is at its loudest the first red mark should light up (+1 dB).

It is recommended to "switch off" the unused sound inputs by turning the respective control to the left until it stops.

Starting recording

press the 💽 button longer.

Recording-pause

press the 💷 button.

The sound can be faded in and out with the \bigcirc MASTER control.

The mix functions cannot be turned off during recording.

Stopping recording press the D button.

Monitoring the sound recording

This can be done using speakers attached to the stereo unit,

using a stereo TV set

using headphones that are connected to the \bigcirc OUT socket and whose volume can be adjusted with the $\bigcirc \oslash \square$ control.

Hifi sound playback

Press the 🕨 button to start playback.

The recorder automatically switches to longplay mode for LP recordings.

Selecting sound track

You can select the desired sound track for the playback of cassettes that were recorded with stereo or two-channel programmes.

Stereo (hifi helical track) = basic setting

You will see this on the recorder : ∞

Repeatedly pressing the TONE SELECT button (on the recorder) or the T button (on the remote control handset) selects:

Sound track 1 - the indication 1 appears on the recorder.

Sound track 2 - the indication 2 appears on the recorder.

Mono/longitudinal track - no display.

Mix mode (hifi helical track, mono longitudinal track) — the \mathbb{MIX} indication appears on the recorder

Basic setting - you will see this indication : CD.

The sound in mix mode is dependent on the position of the \bigcirc Hi-Fi and \bigcirc LINE controls.

O Hi-Fi control = hifi helical track

O LINE control = mono longitudinal track

O _ control = microphone

The sound balance between the hifi helical track and the mono ongitudinal track can be changed with these controls.

In mix mode you can also comment on the playback. This commentary will not be recorded. To do this connect a microphone to the L \square IN socket or a stereo microphone to the L \square R IN sockets, you can change the volume with the \bigcirc — control. Control released, right channel,

Control released and pulled, left channel.

Setting the hifi tracking

When playing a cassette recorded on another recorder, it might be necessary to readjust the tracking.

To do this press the \Box - TRACKING $\,+\,$ \Box buttons continuously.

The more vertical lines that light up in the display, the better the playback quality.



Adjusting the volume

If you notice a difference in volume between the sound from the recorder and the sound from the hifi unit, you can adjust the volume of the recorder with the sound level control — (on the back of the recorder).



Simultaneously Adding Mix Sound

You can additionally record the sound from an external sound source (for example, a hifi unit or a microphone) while recording a picture/sound signal (for example, from television programmes or from a second recorder or a camera recorder). The same mix sound will be recorded on the hifi (helical) track as on the mono (longitudinal) track.

Preparation

Open the front cover of the recorder.

Insert a cassette that can be recorded on/over.

Select the picture/sound source on the recorder with the jog wheel. The desired display indication will appear on the recorder:

1.		=	TV station	programme	position;
----	--	---	------------	-----------	-----------

- FIU = picture/sound source at € EURO-AV ↔ socket;
- CV = picture/sound source at the AUDIO IN and VIDEO IN sockets;
- C V S 1 = picture/sound source at the S-VHS IN and AUDIO IN sockets (front of recorder);

Start playback on the external picture/sound source.

Activate the mix sound by pressing the 🗍 MIX button.

Turn the O MASTER control to the right until it stops.

Mixing the sound balance:

the sound from the TV programmes or the second recorder/ camera recorder with the \bigcirc Hi-Fi control;

the sound from the hifi unit with the O LINE control;

the sound from the microphone with the \bigcirc \checkmark control.

Control released = right channel,

Control released and pulled = left channel.

The first red mark (+1 dB) should light up when the sound is at its loudest.

It is recommended to "switch off" the unused sound inputs by turning the respective control to the left until it stops.

Starting mix sound

Press the **D** button longer.

The sound can be faded in and out with the \bigcirc MASTER control.

The mix functions cannot be turned off during recording.

Ending simultaneous mix sound

Press the 🔳 button.

Adding a Sound Track

Dubbing

You can add a new sound track to a picture recording.

The original sound from the longitudinal track will be entirely erased, the hifi (helical) track will remain as it is.

Trick

Extra "new sound information" can be added to the sound recording on the longitudinal track.

The original sound will only get softer (background sound) when the external sound source is "active".

If the sound source is muted, the original sound will get louder again.

During playback, all sound information can be heard.

The louder the level control is, the quieter the original sound on the longitudinal track will get. The hifi (helical) track will remain unchanged.



Connecting

Connect the hifi unit to the audio sockets on the back of the recorder with a commercial phono cable. R = right channel; L = left channel

Preparation

As long as there are no other instructions, execute the following functions with the buttons and controls on the recorder. The controls can be released by pressing them.

Open the front cover of the recorder.

Insert a previously recorded cassette into the recorder.

Monitoring sound recording

Using headphones connected to the Ω socket (headphone specifications: 8Ω -2k Ω impedance, jack plug 6.3 mmø).

You can adjust the volume with the $\bigcirc \ mathbb{@}$ __ control.

Selecting the recording level....

... automatically

7/.

Press the Hire button (= loop-through mode).

Display on the recorder: HT. The recording level will be automatically selected.

... manually (if desired)

Press the \Box AUTO MAN button, display on recorder : MAN. Then turn the \bigcirc MASTER control to the right until the first red mark (+1 dB) lights up at the loudest sound.

Preparation for dubbing

In the playback mode, locate the position on the tape where the dubbing should begin, then press the **n** button (playback-pause).

Display on recorder : $\Box\Box$.

Press the \Box DUB button (activates the DUBBING function). Display on recorder: $\Box \cup \Box$ and $\exists \exists$.

If you want to adjust the sound recording level manually, press the \fbox AUTO $\,$ MAN button.

... Preparation for trick function

In the playback mode, locate the position on the tape where the dubbing should begin, then press the **III** button (playback-pause).

Display on recorder : 00.

Press the \Box TRICK button (activates the TRICK function). Display on recorder: TRICK and HI.

If you want to adjust the sound recording level manually, press the \square AUTO MAN button.

Starting dubbing/trick function

Press the D button and dubbing/trick function will start. The original sound remains on the hifi track, the new sound will be on the longitudinal track.

Stopping dubbing

Press the DUB button.

The video recorder will switch to playback. You will hear the sound from the mono (longitudinal) track. The display on the recorder will change from DUB to NORMAL.

If you want to hear the sound on the mono (longitudinal) track and hear the hifi track, press the \Box TONE SELECT button, $\bowtie I \cong$ will appear in the recorder's display.

Stopping trick function

To do this press the 🗌 TRICK button.

The video recorder will switch to playback. You will hear the sound from the mono (longitudinal) track. The display on the recorder will change from TRICK to NORMAL.

If you want to hear the sound on the mono (longitudinal) track and hear the hifi track, press the \Box TONE SELECT button, \mathbb{MIS} will appear in the recorder's display.

Additional mix mode

If you want to add mix sound to the dubbing or trick modes, you have to press the $\square\,\text{MIX}$ button.

You can use three sound sources for the mix mode :

the sound on the hifi track of the tape;

the sound that comes from a hifi unit through the AUDIO sockets:

the sound that is supplied by the microphones.



Connecting

Connect the hifi unit to the audio sockets on the back of the recorder with a commercial phono cable.

R = right channel; L = left channel.

Connect two microphones to the L D R IN sockets on the front of the recorder. Microphone specifications: Level $\ge 0.2 \text{ mV}$ Impedance: 200 Ω -10 k Ω

Jack plug 6.3 mm ø

Preparation

Insert a previously recorded cassette into the recorder.

Selecting the sound

Press the \blacksquare button and then the \square MIX button (= loop-through mode). Display on recorder: $\blacksquare I \Join, \blacksquare I$ and MAN.

Then you can mix and select the sound : the sound from the hifi track on the tape with the \bigcirc Hi-Fi control:

This setting can only be made when the tape is in operation, turn the control to the middle position;

the sound from the stereo unit with the O LINE control;

the sound from the microphone with the \bigcirc \checkmark control.

To control the level of the sound signal, turn the \bigcirc MASTER control to the right until it stops and adjust the sound with the above-listed controls so that the sound is at its loudest when the first red mark (+ 1 dB) lights up.

>>

Then the sound can be faded in and out again with the $\bigcirc\,\text{MASTER control}.$

It is recommended to "switch off" unused sound inputs by turning the respective control to the left until it stops.

In playback mode, locate the place on the tape where the dubbing is to begin, then press the **n** button. Display on recorder: **D**.

Press the \Box DUB button as well as the \Box MIX button (activates the dubbing-mix function).

Display on recorder: $\mathbb{D} \to \mathbb{H} \, \mathbb{I} \boxtimes$ and MAN

Press the \Box TRICK button as well as the \Box MIX button (activates the trick-mix function). Display on recorder: $\top = \square \square \boxtimes$ and MAN.

Adding the sound

Press the button to start adding the sound. The original sound remains on the hifi track, the new sound will be on the longitudinal track.

Stopping adding of sound track ...

... Dubbing

Press the 🗍 DUB button.

The recorder will switch to playback. You will hear the sound from the mono (longitudinal) track. The display on the recorder will change from DUB to NORMAL.

... Trick

To do this press the 🗌 TRICK button.

The video recorder will switch to playback. You will hear the sound from the mono (longitudinal) track. The display on the recorder will change from TRICK to NORMAL.

If you want to hear the sound on the mono (longitudinal) track and hear the hifi track, press the \Box TONE SELECT button, $\bowtie I \rtimes$ will appear in the recorder's display.

Operation with a Second Recorder



Connecting

Connect the \bigcirc EURO-AV \bigcirc socket on your recorder to the corresponding socket on the other recorder. Connecting cables are available from electronics stores.

If the second recorder supplies a Y-chroma signal (separate picture and colour signal), use the setting on page 73.

Preparation

Switch on the TV set (serves as a monitor) and select the AV programme position for the video recorder.

Open the front cover of the recorder.

Insert the cassette to be copied into the playback recorder and a cassette with sufficient playing time into the recording VCR.

Tape copying

Press the \bowtie button on the remote control handset until $\exists \forall$ appears in the display of the recorder.

Start the playback on the playback recorder and, at the same time, press the **•** button longer on the recording VCR. The tape copying will be in operation, the TV screen can be used as a monitor.

Stop recording with the 🔳 button.

6

Operation with a Second S-VHS Recorder



Connecting

Sockets on the back of the recorder

Picture signal

Connect the S-VHS \oplus socket (= S-VHS socket S 2) on your recorder with the corresponding picture socket on the other S-VHS recorder.

Sound signal

Connect the AUDIO R \oplus L sockets on your recorder with the corresponding sound sockets on the other recorder.

Sockets on the front of the recorder

Open the front cover of the recorder.

Picture signal

Connect the S-VHS IN socket (= S-VHS socket S 1) on your recorder to the corresponding picture socket on the other S-VHS recorder.

Sound signal

Connect the L AUDIO R sockets on your recorder with the corresponding sound sockets on the other S-VHS recorder.

If the second recorder supplies a y-chroma signal (separate picture and colour signal), use the setting on page 73.

Tape copying

Switch the television set (serves as a monitor) and select the AV programme position for the video recorder.

Insert the cassette to be copied into the playback recorder and insert a cassette with sufficient playing time into your recording VCR.

Select the input sockets by pressing the word button until $\bigcirc \forall \ \le 1$ (for the S-VHS \bigcirc /AUDIO R \bigcirc L sockets) or $\bigcirc \forall \ \le 2$ (for the S-VHS IN/L AUDIO R sockets) appears in the recorder's display.

Start the playback on the playback recorder, and, at the same time, press the
button longer on the recording VCR.
The tape copying will "run", the screen can be used as a monitor.

Press the 🔳 button to stop recording.

An adapter cable is available from electronics stores.

8. Special Functions

Operation with a Camera Recorder

Re-recording (without the synchro-edit-start function)



Connecting

Open the front cover of the recorder.

Picture signal

Connect the VIDEO IN or S-VHS IN socket on your recorder to the corresponding picture socket on the camera recorder.

Camera recorder with mono sound

Connect the MONO IN socket to the sound socket on the camera recorder.

Camera recorder with stereo sound

Connect the L-AUDIO-R IN sockets to the sound sockets on the camera recorder.

If the second recorder supplies a Y-chroma signal (separate picture and colour signal), use the setting on page 73.

Preparation

Switch on the television set (serves as a monitor) and select the AV programme position for video playback.

Insert the cassette to be copied into the camera recorder, insert a cassette with sufficient playing time in the recording VCR.

Tape copying

In playback mode, locate the end of the scene onto which the new recording is to be joined by pressing the **II** button (playback-pause).

Display on recorder : 00.

Switch the recording VCR to recording-pause by pressing the button longer. Display on recorder: <a>OD.

Press the AUCO button until $\bigcirc \lor$ (for VIDEO IN/L AUDIO R IN sockets) or $\bigcirc \lor \boxdot 1$ (for S-VHS IN/L AUDIO R IN sockets) appear in the display.

In playback mode on the camera recorder, locate the beginning of the desired scene. If you want to adjust the sound recording level manually, press the \square AUTO MAN button on the recorder. Turn the \bigcirc MASTER control (release knob by pressing) to the right until the first red mark (+ 1 dB) on the sound display lights up when the sound is at its loudest.

The last marks (+3, +6) should not light up (sound overmodulated).

Start the playback on the camera recorder, and, at the same time, start recording by pressing the
button again.

The tape copying is in operation, the TV screen can be used as a monitor.

Stop recording with the 🔳 button.

Synchronized Copying and Editing without Loss

Synchro-edit-start function.

Synchronized tape transfer and editing without loss using the dialogue between your recorder (GV 280) and any GRUNDIG camcorders whose operating instructions describe this option.



Connecting

Open the front cover of the recorder.

Picture signal

Connect the VIDEO IN or S-VHS IN socket on your recorder to the corresponding picture socket on the camera recorder.

Sound signal

For camera recorders with mono sound, connect the MONO IN socket to the sound socket on the camera recorder.

For camera recorders with stereo sound, connect the L-AUDIO-R IN socket to the sound sockets on the camera recorder.

Control signal

Connect <u>one</u> of the SYNCHRO-EDIT sockets on your recorder to the corresponding start/stop socket on the camera recorder (independent of your camera recorder). Adapter cables are available at electronics stores.

The supply a dit start function via the E ain packet is

The synchro-edit-start function via the 5-pin socket is not compatible with the Panasonic system.

Preparation

Turn on the television set (serves as a monitor) and select the AV programme position for the video recorder.

Insert the cassette to be copied in the camera recorder and a cassette with sufficient playing time into your recording VCR.

Copying

In playback mode on the VCR, locate the end of the scene onto which the new recording is to be joined, then press the **III** button (playback-pause).

Display on recorder : 00.

Switch the recording VCR to recording-pause by pressing the button longer. Display on recorder :
0 00.

Repeatedly press the word button until either $\bigcirc \forall$ (for the VIDEO IN/L-AUDIO-R IN sockets) or $\bigcirc \forall \odot \supseteq$ (for S-VHS IN/L-AUDIO-R IN sockets) appears in the display on the recorder.

In playback mode on the camcorder, locate the beginning of the desired scene, while also adjusting the recording level of the sound to be recorded using the \bigcirc LINE level control on your recorder (monitoring is possible with headphones attached to the \bigcirc socket on the recorder).

Then press the pause button on the camera recorder (playback-pause).

Display on recorder: CAMERA.

Start the synchronized copying by pressing the \bigcirc button again. Display on recorder: $\Im \forall \mathbb{N} = \mathbb{E} \square$

After a short data dialogue between the VCR (GV 280) and the camera recorder, the playback on the camera recorder and the recording on the VCR (GV 280) will start synchronously (at the same time).

Stop recording wiht the D button.

Inserting New Recordings at a Later Date (Insert-Cut)

You can insert new recordings into already existing recordings, for example, specific scenes that are played back from external picture/sound sources.



Connecting

Open the front cover on the recorder.

Picture/sound source at the - € EURO-AV O- socket:

Picture/sound source at the AUDIO IN and VIDEO IN sockets;

Picture/sound source at the S-VHS IN and AUDIO IN (front) sockets;

Sound source at the AUDIO R \oplus L (back) sockets.

Preparation

As long as there are no other instructions, execute the following functions with the buttons and controls on the recorder.

The controls can be released by pressing on them.

In playback mode or forward/reverse picture search, locate the position on the tape where the recording to be inserted should end, then press the button and then the MARKE button. The tape position is electronically marked. Display on recorder: INSERT.

The hour/minute display will automatically switch to the 5-place tape length display. The tape length display will automatically be set to $\bigcirc + \bigcirc \bigcirc + \bigcirc \bigcirc + \bigcirc \bigcirc$.

In the playback mode (reverse picture search or reverse mode), locate the position on the tape where the recording to be inserted is to begin. A - (minus sign) will appear in front of the tape length display.

Press the II button and then the INSERT button.

The position on the tape is electronically marked.

The recorder will automatically switch to recording-pause. You will see this on the recorder: (300.

Selecting the programme source

Turn the jog wheel until the desired display appears on the recorder:

199	=	TV station (pro	ogramme)	position;
-----	---	-----------------	----------	-----------

- $\exists \Psi_{i}^{U} = Picture/sound source at the <math>\odot$ EURO-AV \bigcirc socket;
- CU = Picture/sound source at the AUDIO IN and VIDEO IN sockets;
- SUS1 = Picture/sound source at the S-VHS IN and AUDIO IN sockets (front of recorder);

he different insert possibilities

Insert

Display on recorder: INSERT.

Only the new picture signal will be inserted, the sound from the old recording on the mono track will be copied onto to the helical (stereo) track.

Insert/dubbing_

Select the function with the \Box DUB button. Display on recorder: I MS=D.

The new picture/sound signal will be inserted. The new sound signal will be recorded on the longitudinal and helical tracks, the old sound signal will be erased.

The recording level will be automatically selected.

If you want to select the recording level manually, press the \Box AUTO/MAN button and turn the \bigcirc MASTER control to the right until the first red mark (+1 dB) on the sound display lights up when the sound is at its loudest.

Insert/trick

Select this function with the \Box TRICK button. Display on recorder: $I H \Xi - T$.

The new picture signal will be inserted.

The new sound signal will be recorded on the helical track, the old sound signal on the longitudinal track will get quieter, the higher the recording level is.

The recording level of the sound will be automatically selected.

If you want to set the recording level manually, press the \Box AUTO/MAN and turn the \bigcirc MASTER control to the right until the first red mark (+ 1 dB) on the sound display lights up when the sound is at its loudest.

Insert/dubbing/mix

Select the function by first pressing the DUB button and then the MIX button.

Display on recorder: INS=DH and MAN.

The new picture/sound signal will be inserted.

The new sound signal can be recorded and mixed from the following sources:

AUDIO R \odot L socket (back of recorder), adjustable with the \bigcirc LINE control;

selected programme source, adjustable with the \bigcirc Hi-Fi control;

from two microphones (L \square R sockets, front of recorder), adjustable with the \bigcirc \square control. Control released = right channel, control released and pulled = left channel.

To set the level of the sound signal, turn the \bigcirc MASTER control to the right until it stops and and adjust the sound with the above-listed controls so that the first red mark (+1 dB) lights up when the sound is at its loudest.

The sound can then be faded in and out with the \bigcirc MASTER control.

It is recommended to switch off the unused sound inputs by turning the respective controls to the left until they stop.

Insert/trick/mix

Select the function by first pressing the TRICK button and then the MIX button.

Display on recorder: 1HS-TH and MAN.

These variants are the same as those described above. The difference is that the old sound signal on the longitudinal track will become quieter, the higher the recording level is.

Starting the insert function

Start the playback on the external picture/sound source.

Start the insert function by pressing the III button.

The new picture scenes will be inserted between the marked positions on the tape, then the recorder will switch to playback-pause.

Display on recorder : 00.

Ending the insert function

Press the ២ button.

Operation with a GRUNDIG Satellite Receiver with Two EURO-AV Sockets



Preparation

Switch off the television set and the satellite receiver.

Pull the mains lead of to the video recorder out of the wall outlet.

Connecting

Plug the aerial plug from the satellite aerial into the X or Y socket on the satellite receiver.

Connect the EURO-AV socket (to the recorder) on the satellite receiver to the O EURO-AV O socket on the recorder with the EURO-AV cable.

Connect the EXI VCR socket on the satellite receiver to the universal socket on the VCR with the GRUNDIG SAT-FB cable* (order no. 27511-384.01).

Plug the aerial plug of the standard house aerial into the Ψ socket on the video recorder.

Connect the \square socket on the video recorder to the Ψ socket on the television set with a commercial cable.

Connect the EURO-AV socket i on the satellite receiver to the EURO-AV socket on the television set with a EURO-AV cable.

* Consult your dealer.

Operation

Switch on the television set and the satellite receiver.

Plug the mains lead for the VCR back in.

A description of how to record satellite broadcasts can be found in the first part of the operating instructions on page 32.

A description of record programming for satellite broadcasts can be found in the first part of the operating instructions in the programming examples in variants 1 and 3.

Please note!

The satellite receiver has to be switched to "standby" so that the picture/sound signal from the VCR is transferred to the televison set using the EURO-AV connection.

Operation with a GRUNDIG Satellite Receiver with One EURO-AV Socket



reparation

Jwitch off the television set and the satellite receiver.

Pull the mains lead to the video recorder out of the wall outlet.

Connecting

Plug the aerial plug from the satellite aerial into the X or Y socket on the satellite receiver.

Connect the EURO-AV socket (to the recorder) on the satellite receiver to the \bigcirc EURO-AV \bigcirc socket on the recorder with the EURO-AV cable.

Connect the **E** VCR socket on the satellite receiver to the universal socket on the VCR with the GRUNDIG SAT-FB cable* (order no. 27511-384.01).

Plug the aerial plug of the standard house aerial into the Ψ socket on the video recorder.

Connect the \Box socket on the video recorder to the Ψ socket on the television set with a standard commercial cable.

Connect the EURO-AV \bigcirc socket on the video recorder to the EURO-AV socket on the television set with a EURO-AV cable.

Consult your dealer.

Operation

Switch on the television set and the satellite receiver.

Plug the mains lead for the VCR back in.

A description of how to record satellite broadcasts can be found in the first part of the operating instructions on page 32.

A description of record programming for satellite broadcasts can be found in the first part of the operating instructions in the programming examples in variants 1 and 3.

Please note!

If you want to watch a satellite programme on the television set, the video recorder has be switched to EE mode (= loop-through mode) by pressing the button. Then press the will button on the remote control handset. Display on recorder: i = 10.
Copying with ...

- ... a D 2-MAC decoder,
- ... television sets with the 16:9 format,
- ... a video recorder/camera recorder with Y-chroma signal (separate picture and colour signal).

When operating one of these units it is necessary to adapt the input sockets on the recorder.

Press the INFO button.

With the numbered button <u>4</u> select the "Sonderfunktionen" (Special Functions) line from the "Info" page.

The "Sonderfunktionen" page will appear.

With the numbered button <u>3</u> select the "Externe Anschlüsse" (External Connections) line from the "Sonderfunktionen" page.

The "Externe Anschlüsse" page will appear.

102	GRUNDIG TEXT-PROGRAMMING
	EURO - AV - Belegung
AV1-Buchse Eingang	FBAS Y/C
AV2-Buchse Ausgang	FBAS Y/C
16:9 Automatik	aus em
h ablen	
OK speichern	

The different lines can be selected with the \bigcirc or \bigcirc buttons. The desired functions can be selected with the \bigcirc or \bigcirc buttons.

The selected position is underlined in blue. If the position is stored, the marking will turn green.

Store the function with the OK button.

The recorder will switch to the television picture.

Frame Converter

Since your video recorder can only record standard picture signals (FBAS-PAL signal), it is necessary to adapt this signal when recording FBAS (CCVS) signals using other line numbers.

To do this, press the 🔳 button during recording-pause.

Teletext Operation with this Recorder

Teletext is a free service provided by television stations which is transmitted with the television signal, processed by the recorder, and then appears on your television screen.

Teletext consists of a large number of text pages, e.g. sports and political news, stock market prices, weather reports and lot of other information.

Preparation:

Switch on the television set.

Select the AV programme position for the video recorder on the television.

Selecting a television programme

The Teletext offerings, as well as the organization and setup of the separate pages, varies from station to station.

Therefore, you should first select the television programme whose Teletext pages you want to see with the PROGRAM
buttons.

TOP-text mode (Table Of Pages)

With this new development of the conventional Teletext system, ou no longer need to enter the numbers of the Teletext pages. ou can call up different topics, chapters and individual pages om an overview just by pressing a button.

The illustration below shows the functional diagram.

Call up the "Info" page with the INFO button

Select the "Videotext" (Teletext) line from the "Info" menu with the numbered button 2.

Teletext page 100 (= Teletext overview) will appear.

Selecting a topic

You can select the topic by repeatedly pressing the button (blue).

The next topic will be shown in the blue Info line.

Selecting the chapter

You can select the chapter of the selected topic by repeatedly pressing the (yellow) button.

The next chapter will be shown in the yellow Info line.

If the selected chapter consists of several pages, you can retrieve these pages. Forwards with the _____ button (green), or reverse with the _____ button (red).

To reduce the waiting period for the selected Teletext page, the recorder automatically stores three Teletext pages: the page of the next topic; button (blue) the page of the next chapter; button (yellow) the following page of the selected chapter; button (green).



Normal Teletext operation

Call up the "Info" page with the INFO button.

Select the "Videotext" line from the "Info" page with the numbered button \bigcirc .

The Teletext page 100 (= Teletext overview) will appear.

Select the Teletext pages

Select the desired Teletext page from the Teletext overview by entering the page number of the Teletext page in three digits with the numbered buttons $1 \dots 0$.

The page will appear after a short time.

The Teletext pages can be "skimmed" up or down, page by page, with the (red) or (green) button.

Each time you press the (yellow) button, you can skip 10 pages.

Each time you press the (blau) button you can skip 100 pages.

Select the retrieved Teletext page from another television programme (programme positions) by pressing the **PROGRAM A** button.

If the TOP-text system is offered by a station, the recorder will automatically switch over to this system.

Multi-pages

Several sub-pages can be summarized under one page number, which are automatically turned to by the station. You can recognize multi-pages by the display under the clock. The display 1/2, for example, means that you are viewing the first of two existing sub-pages.

If you want to view a sub-page for a longer period of time, press the $\overline{\mbox{stop}}$ button.

The indication Stop will appear in the upper left.

Press the stop button again to end this function.

Enlarging character size

Normal letter size = basic setting. Consecutively pressing the button selects: double letter size in the top half of the page; double letter size in the bottom half of the page; normal letter size on the entire page.

Displaying hidden text

Certain Teletext pages may contain hidden information, e.g. solutions to brain teasers or the VPS times for programming your recorder.

If you press the 🗊 (🔊) button, concealed information will become visible.

If you press the 1 (a) again, the information will be concealed again.

Subtitles for television programmes

Some shows are provided with subtitles for the hearing impaired. The page numbers (e.g. page 150) for these subtitles can be found in the announcement before the programme and in the Teletext pages' "subtitle preview".

At the beginning of the programme, enter the number of the subtitle page with the numbered buttons $1 \dots 0$. You will see the subtitles of the selected TV show on the screen.

You can enlarge the size of the subtitles with the 🖽 button.

Switching sound on

The sound of the TV programme can be switched on with the button. The programme position and the recording level indicator appear in addition in the display of the recorder.

Pressing the end button again switches the sound off again.

Ending Teletext

To switch back to the television picture, press the D button.

Your Recorder as a Receiver

So, your television set doesn't have a "cable-adapted" receiver yet?

No problem, this recorder has cable capability, i.e., it can also receive television programmes from special channels that are fed directly or sent via satellite into the cable system.

The recorder's transmitter has to be turned on to do this. Instructions can be found in the first part of the operating instructions on page 12.

Preparation

Turn on the television set. Your televison set serves as a monitor

Select the AV programme position for the recorder on the television set.

Press the D button on the remote control handset or on the recorder.



Preceding

programme

Next

programme

Select the desired television programme by turning the jog wheel (see illustration).

You will see the selected programme on the television screen.

Unoccupied programme positions will be skipped.

The Combination Lock

Your recorder has an electronic combination lock.

With this lock you can secure all of the functions. Even a cassette which has been inserted after the lock has been activated, cannot be ejected until you have unlocked it.

Locking and unlocking can be done very simply with a one- to four-digit i.d. number.

Write your personal i.d. number in the boxes to the right.

Locking the recorder

To prepare for entering the i.d. number, first press the button and then press the numbered buttons **8**500 and the OK button.

This indication will appear on the recorder: 0000.

Enter the one- to four-digit i.d. number with the numbered buttons 1...0.

Make sure to make a note of your personal i.d. number!

Store the i.d. number in the memory with the $\bigcirc K$ button. The indication: $\bigcirc \bigcirc K$ resp. $\bigcirc \bigcirc K \boxtimes \bigcirc K$ will appear on the recorder along with the clock time. The recorder is locked.



If you insert a cassette now, it cannot be ejected.

In the case that you forget or misplace your i.d. number, your dealer can assist you.

Unlocking the recorder

Enter your personal i.d. number with the numbered buttons

The LOCK resp. LOCKED indication will disappear and the clock time will be shown on the recorder.

The recorder is now unlocked and each of its functions can be selected again.

Calling Up and Changing the Time and Date

Calling up the time and date

The time and date can be called up even during recording or playback by pressing the a button once or twice.

Changing the time

Automatically

The time will be automatically updated with programme position 1 in Teletext mode.

Manually_

Press the 🔳 button.

Enter a new time (in hours and minutes) with the numbered buttons 1 ... and confirm it with the B button. After you press the B button the clock will start. The digital clock will continue to run when the recorder is unplugged (however, the time will not be visible in the display).

Changing the date

Press the 🔳 button.

Press the 🔊 button. The date will appear.

Enter the four-digit day and month with the numbered buttons and confirm it with the B button. The day, month and year will be shown.

Enter the two-digit year (e.g. 9 and 2 for 1992) with the numbered buttons 1 ... and confirm it with the Abutton.

The Recorder's Continuous Functions

Your recorder can:

record continuously from different signal sources, e.g. from a television programme or from units connected to the corresponding sockets.

It can also continuously play back.

Archived cassettes cannot be used for the "continuous function recording".

A continuous recording will not be archived by the recorder.

Setting up for the continuous function

Open the front cover of the recorder.

Insert a cassette with sufficient playing time for continuous recording.

Insert a previously recorded tape for continuous playback. Start playback by pressing the D button.

When you reach to place where playback should end, press the button.

Press the numbered buttons 8501 and then press the OK button.

This indication will appear on the recorder: CONT.

Then you can select the different functions.

Continuous function recording using the ↔ EURO-AV ↔ socket

Press the M button until H appears in the recorder's display, then press the O button <u>longer</u>.

The recorder will record to the end of the tape, rewind the tape and then begin recording again.

Stop the continuous function with the 🔳 button.

Continuous function recording using the aerial socket

Select a television programme with the numbered buttons

The recorder will record until the end of the tape, rewind the tape and then begin recording again.

Continuous function recording using the VIDEO IN and AUDIO LR IN sockets

Press the web button until CV appears in the recorder/display, then press the button longer.

The recorder will record until the end of the tape, rewind the tape to the beginning and will start recording again.

Continuous function recording using the S-VHS IN and AUDIO LR IN sockets

Press the even button until $\bigcirc \forall \quad \subseteq 1$ appears in the recorder's display, then press the \bigcirc button longer.

The recorder will record to the end of the tape, rewind the tape and then begin recording again.

Continuous function recording using the S-VHS \oplus und AUDIO R \oplus L sockets

Press the MeV button until $\bigcirc V = \odot \supseteq$ appears in the recorder's display, then press the \bigcirc button longer.

The recorder will record to the end of the tape, rewind the tape and then begin recording again.

Continuous function playback

Start the function by pressing the 🕨 button.

The tape will be wound to the beginning and playback will begin.

The tape will play until it reaches the position marked on the tape and will then be rewound to the beginning and will start again.

Ending the continuous function

Press the 🖪 button on the recorder.

Remote Controlling the TV Set

You can also control GRUNDIG colour television sets with the video remote control handset RP 81.

Television sets starting with TP 661 remote control handset and later models.

Televisions with the TP 590, TP 600, TP 610, TP 630, TP 650 and TP 660 remote control handsets.

The functions which can be controlled depend on the features on your GRUNDIG television set.

Preparation

Switch on the television set with the power button.

Move the switch on the remote control handset to the TV setting.

Point the remote control handset at the television.

Television sets with TP 590, TP 600, TP 610, TP 630, TP 650 and TP 660 remote control handsets

Selecting a programme

Select the programme positions 1 to 9 with the number buttons $1 \dots 9$.

Select the AV programme position with the number button.

Adjusting the volume

If you press the 🖪 button, the volume will go down.

If you press the 🕨 button, the volume will go up.

You can reset the volume at the optimal value (basic setting) with the \fbox button.

Standby

During breaks you can switch your television set to standby with the 🖾 button.

You can switch the television set back on with the numbered buttons $1 \dots 9$.

Television sets with TP 661 remote control handsets and later models

Selecting a programme

Select the programme positions 1 to 9 with the numbered buttons $1 \dots 9$.

For the two-digit programme positions 10 to 49, enter the tens place first, this will flash for ca. 3 seconds, during which time you should enter the unit place.

With the **PROGRAM buttons you can step through the** programme positions one by one.

Select the AV programme position by pressing the with button; Select the CV programme position by pressing the with again.

Adjusting the volume

If you press the 🖪 button, the volume will go down.

If you press the 🕨 button, the volume will go up.

You can reset the volume at the optimal value (basic setting) with the $\ensuremath{\mbox{OK}}$ button.

Stereo broadcasts

If your television set receives a stereo broadcast, it automatically switches to stereo sound playback.

If the stereo sound quality is poor, you can switch to mono sound playback with the \fbox button.

Two-channel broadcasts

If your television receives a two-channel broadcast, for example a movie with the original sound on sound channel 2 and a dubbed version on sound channel 1, you can select the desired channel by pressing the <u>source</u> button.

The indication 1 (for sound channel 1), or 2 (for sound channel 2) will appear on the TV screen.

Stereo depth, spatial sound

Widens the sound for stereo broadcasts. Improves the sound for mono broadcasts.

Switch this feature on or off with the 🕶 button.

Standby_

During breaks you can switch your television set to standby with the 🔟 button.

You can switch the television set back on with the numbered buttons 1 ... 9.

Remote Controlling Another GRUNDIG Video Recorder

With this remote control handset you can control different GRUNDIG video recorders independent of each other.

Your GV 280 and a second video recorder from the 600 to 900 lines and the GV 200 and later models.

Your GV 280 and a second video recorder

from the 400 or 500 line.

To make this possible, the remote control handset and/or the respective video recorder must be adapted.

Any adjustments are erased when the batteries are changed in the remote control handset.



When the switch is in the VIDEO 1 position, you can control your GV 280;

When the switch is in the VIDEO 2 position, you can control the second recorder.

If the VIDEO 1 TV VIDEO 2 switch is not positioned in the selected video level when operating your GV 280, the indication $\forall I \Box = 1$ or $\forall I \Box = 2$ on the recorder will indicate that the remote control handset should be switched over to the other video level.

Remote control of two video recorders from the 600 to 900 lines and the GV 200 and later models.

To control your GV 280 push the switch to the VIDEO 1 position. It is not necessary to make any adaptations.

To control a second recorder, the command structure has to be changed.

Push the switch to the VIDEO 1 position.

Unplug your GV 280 from the wall socket.

Point the remote control handset at the second recorder and press the numbered buttons 8517 consecutively and then press the OK button.

The second recorder will only react if you push the switch to the VIDEO 2 position.

Plug your GV 280 back into the wall outlet.

If you want to undo the adaptation, push the switch to the VIDEO 2 position and press the numbered buttons **B 5 1 6** consecutively and then press the OK button.

Remote control of the video recorders from the 400 and 500 lines

To control your GV 280 push the switch to the VIDEO 1 position, press the numbered buttons 8527 consecutively and then press the OK button.

Your GV 280 will react only if the switch is in the VIDEO 1 position.

To control the recorders from the 400 or 500 line, the command structure must be changed.

Push the switch to the VIDEO 2 position.

Hold down the stop button until CO 16 appears and, within 5 seconds, press the \longleftrightarrow button.

Display on the remote control handset: CO IC.

If you want to undo the adaptation, push the switch VIDEO 1 position and press the numbered buttons $\begin{bmatrix} 8 & 5 & 2 & 6 \end{bmatrix}$ consecutively and then press the OK button.

Then push the switch to the VIDEO 2 position, press the superior button until CO IO appears and, within 5 seconds, press the \longleftrightarrow button.

Display on the remote control handset: COIG.

