Panasonic

Video Cassette Recorder

NV-HV60 Series (Hi-Fi) / NV-HV65 Series (Hi-Fi) NV-HV55 Series (Hi-Fi) / NV-HV50 Series (Hi-Fi) NV-MV20 Series (Mono) / NV-MV15 Series (Mono)



NV-SV120 Series (S-VHS, Hi-Fi) SVHS

Panasonic NV-SV120		0		5	Super VHS
	SUPER DRIVE Hi-Fi STEREO - SUPER LP	EJECT) сн		
U/I INTELLIGENT TIMER PROG PLAY 3D DNR		9	\sim	∧ TIMES	RREC O
PRILOPPI PRILOPPI SHOWVIEW VPS / PDC CVC super S-VHSEI SVHS		Ø∕ ₹ ►/®		€	

Operating Instructions

Contents	page
Precautions	2
Warning	3
Remote control functions	4 - 5
Front Panel	6
Rear Panel	7
Connections / Settings	8
Auto Setup	9
Recording	10
Timer recording Automatic SP/LP selection VPS/PDC function	11 11
Timer recording	12-13
ShowView	14
INTELLIGENT TIMER	15
General functions	16 -17
Menu Overview	18
Manual Setup Setting a new Channel Changing the name of TV stations Changing the order of TV stations Creating a new station table Shipping condition, factory defaults	19 20 20 21 21
Menu Others	22-23
Decoder	24
External recording control	25
Amplifier, NICAM sound system NTSC playback	26 26
Batteries, Cassette erasure protection	n 27
Before requesting service	28-29
Specifications	30-31
Index	32

Dear customer

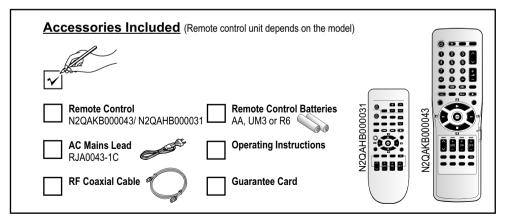
Thank you for purchasing this product. For optimum performance and safety, please read these instructions carefully. Please keep this manual for future reference.

Precautions

Voltage: Only use power sources complying with the specifications (220-240 VAC, 50/60 Hz). You may otherwise overload the unit and cause fire. Do not use DC power sources. Check the source carefully when setting up the unit on a ship or other place where DC is used.

AC mains lead protection: Ensure the AC mains lead is connected correctly and not damaged. Poor connection and lead damage can cause fire or electric shock.

Service: Do not attempt to repair this unit by yourself. If the sound fails, the display is off, smoke escapes from the unit or any other problem occurs that is not described in these operating instructions, disconnect the power supply and contact your dealer or an authorised aftersales service centre.

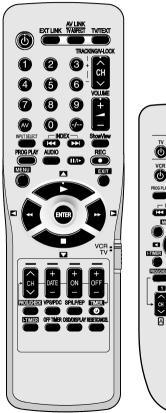


Warning	NODOK
Warning	NORSK
WARNING: TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR PRODUCT DAMAGE, DO NOT EXPOSE THIS APPARATUS TO RAIN, MOISTURE, DRIPPING OR SPLASHING AND ENSURE THAT NO OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHALL BE PLACED ON THE APPARATUS.	ADVARSEL: FOR Å REDUSERE FAREN FOR BRANN, ELEKTRISK STØT ELLER SKADER PÅ PRODUKTET, MÅ DETTE APPARATET IKKE UTSETTES FOR REGN, FUKTIGHET, VANNDRÅPER ELLER VANNSPRUT. DET MÅ HELLER IKKE PLASSERES GJENSTANDER FYLT MED VANN, SLIK SOM BLOMSTERVASER, OPPÅ APPARATET.
CAUTION! • DO NOT INSTALL, OR PLACE THIS UNIT, IN A BOOKCASE, BUILT-IN CABINET OR IN ANOTHER CONFINED SPACE. ENSURE THE UNIT IS WELL VENTILATED. TO PREVENT RISK OF ELECTRIC SHOCK OR FIRE HAZARD DUE TO OVERHEATING, ENSURE THAT CURTAINS AND ANY OTHER MATERIALS DO NOT OBSTRUCT THE VENTILATION VENTS.	ADVARSEL! • APPARATET MÅ IKKE PLASSERES I EN BOKHYLLE, ET INNEBYGGET KABINETT ELLER ET ANNET LUKKET STED HVOR VENTILASJONS- FORHOLDENE ER UTILSTREKKELIGE. SØRG FOR AT GARDINER ELLER LIGNENDE IKKE FORVERRER VENTILASJONSFORHOLDENE, SÅ RISIKO FOR ELEKTRISK SJOKK ELLER BRANN FORÅRSAKET AV OVERHETING UNNGÅS.
• DO NOT OBSTRUCT THE UNIT'S VENTILATION OPENINGS WITH NEWSPAPERS, TABLECLOTHS, CURTAINS, AND SIMILAR ITEMS.	• APPARATETS VENTILASJONSÅPNINGER MÅ IKKE DEKKES TIL MED AVISER, BORDDUKER, GARDINER OG LIGNENDE.
 DO NOT PLACE SOURCES OF NAKED FLAMES, SUCH AS LIGHTED CANDLES, ON THE UNIT. 	• PLASSER IKKE ÅPEN ILD, SLIK SOM LEVENDE LYS, OPPÅ APPARATET.
• DISPOSE OF BATTERIES IN AN ENVIRONMENTALLY FRIENDLY MANNER.	• BRUKTE BATTERIER MÅ KASSERES UTEN FARE FOR MILJØET.
THIS UNIT IS INTENDED FOR USE IN MODERATE CLIMATES.	DETTE APPARATET ER BEREGNET TIL BRUK UNDER MODERATE KLIMAFORHOLD.
This product may receive radio interference caused by mobile telephones	Dette apparatet kan under bruk fange opp høyfrekvente forstyrrelser

during use. If such interference is apparent, please increase separation between the product and the mobile telephone.

Dette apparatet kan under bruk fange opp høyfrekvente forstyrrelser forårsaket av en mobiltelefon som benyttes i nærheten. Hvis slik forstyrrende påvirkning konstateres, bør mobiltelefonen benyttes på større avstand fra dette apparatet.

Remote control functions



Some Panasonic TV sets accept control signals from the video recorder's remote control unit. In the table, the TV buttons are marked with '**TV**', the video recorder buttons with '**VCR**'.

Control menu

	OSD menu selection buttons.	VCR
MENU	Displays the menu.	VCR
EXIT	Quits a menu.	VCR
ENTER	Selects or saves a setting.	VCR

Playback functions

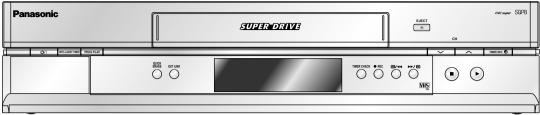
Playback	VCR
 Fast winding / Forward and backward search Goes from Stop into Fast Forward or Fast Rewind mode. Starts the search for a frame during playback. Press button twice to increase the speed of search (JET SEARCH). Press the Playback button ▶ to quit the Search mode. The unit keeps searching while the button is pressed. 	VCR P. 17
Press Stop to stop recording, playing back or winding. To eject a cassette: Press button for more than 3 seconds.	VCR
Still Playback: In Playback mode. Press button again or press the Playback button ▶ to quit. Slow Playback: Press for more than 2 seconds while in Playback mode. Press the Playback button to quit ▶.	VCR P. 17

	Stand-by/on switch U/I Press to switch the unit from on to stand-by mode or vice	VCR
	versa. In stand-by mode, the unit is still consuming a small amount of power.	TV
EXT LINK	Activates the recording timer for externally controlled recording.	VCR P. 25
AV LINK TV ASPECT	Toggles between TV reception and video playback channel.	VCR
	Changes the screen format.	ΤV
TV/TEXT	Toggles between TV reception and video text reception.	τv
0000 000 000 000	Selects a programme memory location and inputs the ShowView number. Example: 18= 📽 🛈 🕄	VCR TV
AV	Selects the TV set's AV port.	τv
	Channel selector Tracking control of disturbed VCR image.	VCR TV
VOLUME	Volume control.	τv
INPUT SELECT	Toggles between AV inputs A1, A2 and A3.	VCR
	Finds the start of a programme.	VCR P. 16
ShowView	Displays the ShowView menu.	VCR P. 14
PROG PLAY	Plays back programmed recordings.	VCR P. 13

AUDIO	Audio mode	VCR P. 16
REC	Record	VCR P. 10
CH = DATE = ON = OFF → OFF = ON = OFF	 TV : Selects the AV input and navigates in the teletext menu. VCR: Menu entries. 	VCR TV
PROG/CHECK	Displays the Timer menu.	VCR P. 12
VPS/PDC	Controls the beginning and end of a recording session by a special signal.	VCR P . 11
SP/LP/EP	Sets the tape speed.	VCR P. 10
TIMER O	Activates the recording timer.	VCR P. 12
I-TIMER	Defines programmes transmitted to the same program memory location at the same time.	VCR P. 15
OFF TIMER	Switches the unit into stand-by mode after the set time of recording, playback or in Stop mode.	VCR P. 17
OSD/DISPLAY	Press the button repeatedly to display the time, tape counter or remaining tape.	VCR P. 10
RESET/CANCEL	RESET : Resets the counter to 0:00.00. CANCEL: Clears an entry you made.	VCR
	VCR / TV switch	VCR TV

Front Panel

NV-HV60, NV-HV65, NV-HV55, NV-HV50, NV-MV20, NV-MV15



NV-SV120



CVC Super

The CVC function provides a picture of perfect quality. The picture is automatically rendered as clear and sharp as possible.

3D DNR

To ensure high playback picture quality with less noise.



୦/ା	Stand-by/on switch ୯/I	
INTELLIGENT TIMER	Defines timer programmes.	
PROG PLAY	Plays back programmed recordings.	
3D DNR	3-Dimensional Digital Noise Reduction (S-VHS only)	
EJECT	Ejects the cassette.	
CH	Selects a channel.	
EXT LINK EXT LINK	Activates the recording timer for externally controlled recording.	

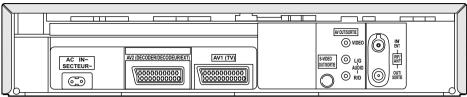
TIMER REC	
	Displays the timer programme for verification.
• REC	Record button
	Fast winding / jet search
$ \bigcirc $	Stop button
\bullet	Playback button
QUICK QUICK ERASE ERASE	Erases a cassette.

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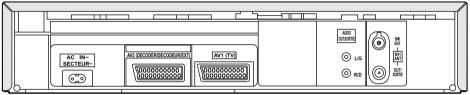
Rear Panel

AC IN~ SECTEUR~	= Power supply
AV2 (DECODE	ER/DECODEUR/EXT)
AV1 (TV)	
S-VIDEO OUT/SORTIE	= S-VIDEO output
VIDEO	= VIDEO output
L/G R/D	AUDIO output left channelAUDIO output right channel
IN/ ENT OUT/ SORTIE	Antenna inputAntenna output
CONTE	

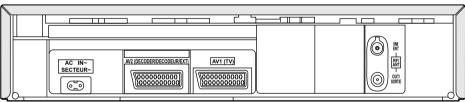
NV-SV120



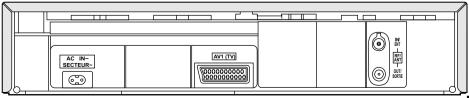
NV-HV60, NV-HV65, NV-HV55



NV-HV50EC

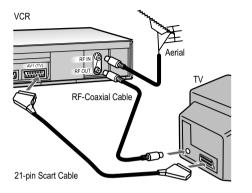


NV-MV20, NV-MV15, NV-HV50EG



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Connections / Settings



Connect all the cables as shown in the illustration, then connect the AC Mains lead (part of the package) to an AC wall outlet.

To be able to receive TV programmes it is mandatory to connect the RF-Coaxial Cable even if the video recorder is connected by a 21-pin scart cable.

If you decide to just use the RF-Coaxial Cable to connect the TV set you must adjust the video output channel with the TV set's input channel.

- O Switch on the video recorder
- Press the MENU button for approx. 7 seconds. The preset channel appears on the display.
- Tune the TV set until the test pattern appears. If there is any interference select another channel for the TV set and video recorder.
- Press the **CH** button to change the channel (e.g. to 39).

- Tune the TV set until the test pattern appears.
- Press ENTER to confirm.

Auto Setup

Country		
Belgien Belgique België Danmark España Ελλάδα France	Italia Nederland Norge Österreich Deutschland Portugal Suomi	Sverige Schweiz Suisse Svizzera others
selectEXIT : exit	ENTER : ACCE	SS

Clock set	
AUTO	
Time Date	: 12 : 00 : 00 : 11. 6. 03
Iselect MENU : return	

Clock set	
Time Date	: 12 : 00 : 00 : 11. 6. 03
◆:select EXIT : exit	ENTER : store

SV120 HV60 HV65 HV55 HV50 MV20 MV15

The VCR starts the automatic tuning.

(The search will take approx. 5 minutes to be completed.)

- O Switch on the video recorder. The Country menu will be displayed.
- Select a country.
- ENTER

If the Country menu does not appear after switching on you can restart Automatic Tuning (page 21). You can afterwards set date and time either automatically or manually.

SV120 HV60 HV65 HV55 HV50 MV20 MV15

Manually setting Time / Date

- AUTO MANUAL 🔶
- ENTER
- Set Time and Date <>▲▼, ▶
- ENTER
- Press MENU to return to the Menu screen.
- * Mind that a wrong date or time will influence the programmed recording of TV programmes (don't forget to change summer- and wintertime).

SV120 HV60 HV65 HV55 HV50 MV20 MV15

After running the automatic tuning, you must manually set the date and time.

- Set Time and Date <►▲▼, ►
- ENTER

Recording



SP/LP/EP

SV120 HV60 HV65 HV55 HV50 MV20 MV15

Set the TV set to the video channel and insert a cassette into the video recorder; make sure that the cassette's protection tab is still in.

- Select a channel to record from. Select the AV channel if you are recording via the 21-pin scart cable.
- Press REC to start recording.
- Press the Stop button to stop recording.
- To pause recording: II/I> The function will switch itself off after approx. 5 minutes to protect the video heads.
- To resume recording: Ⅱ/
- * Recordings in the S-VHS or S-VHS ET REC mode are supported by the PAL TV system only. (Only SV120, page 23)

SV120 HV60 HV65 HV55 HV50 MV20 MV15



Tape Remain counter/indicator

The display of the video recorder shows: time - counter - tape remain. The start of a cassette is indicated as -----.

· Press OSD/DISPLAY until 'RE' is displayed.

SV120 HV60 HV65 HV55 HV50 MV20 MV15

- Prior to starting the recording session, press SP/LP/EP to set the tape speed.
 - **SP** : normal recording time **LP** : double recording time
- optimal picture quality
- simple picture quality
- **EP**: triple recording time
- reduced picture quality
- * When you play back LP or EP recordings, some cassettes (e.g. E-300 type) may produce interference. This is not indicative of a malfunction.

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SP

Timer recording

SV120 HV60 HV65 HV55 HV50 MV20 MV15

Automatic SP/LP selection

- A: If, at the beginning of a timer programme, there is not enough tape remain to complete it, the SP/LP function will automatically run the tape at LP speed. This ensures that the entire programme will be recorded. If the LP mode is not enough to 'stretch' the remaining tape to fit you will not be able to record all of the TV programmes.
- * It is not possible to automatically activate the EP mode.

SV120 HV60 HV65 HV55 HV50 MV20 MV15

VPS/PDC function

VPS/PDC

This setting defines how a special signal controls the beginning and end of a recording session. If a TV programme begins or ends earlier or later than planned, this function synchronises the beginning and end of the recording session with the actual beginning and end of the TV programme.

- **ON :** The station transmits VPS/PDC signals. You must set the timer to the time specified in the TV magazines. Use the special VPS time the TV magazine may indicate.
- ---: The station does not transmit VPS/PDC signals. Try to set the start and stop times such that the entire film can be recorded even if a programme begins or ends earlier or later than planned.

Timer recording

Timer re	ecording				1/3
Pos	Date	Start	Stop	σο	VPS PDC
1 ARE	31/12	10:30	11:30	SP	ON
1 ARE	31/12	11:30	12:30	SP	ON
2 ZDF	31/12	12:30	13:30	SP	ON
4 RTL	. 31/12	13:30	14:30	SP	ON
6 VO)	K 31/12	14:30	15:30	SP	ON
	/	:	:	SP	
+ :select ENTER : store					
CANCEL :	delete	EXIT :	exit		



SV120 HV60 HV65 HV55 HV50 MV20 MV15

PROG/CHECK The Timer recording allows you to programme the recording time of TV programmes up to 1 month in advance. Use the on-screen menu to programme a maximum of 16 recordinas.

- PROG/CHECK
- ENTER

Use the cursor keys or to make the next entries.



- Select a station ▲▼, ▶ or press CH
- Set the date, week or day of week ▲▼, ▶ or press DATE
- Enter the start time: ▲▼, ▶ or press ON
- Enter the stop time: ▲▼, ▶ or press OFF Keep the buttons pressed to change the time in 30-minute steps.
- Set the tape speed: A (Automatic), SP, LP, EP ▲▼, ▶ (does not apply to MV20, MV15)
- Press ▲▼ or the VPS/PDC button to change the VPS/PDC setting (does not apply to HV50, MV15).
- Press ENTER to save the timer programme.
- Repeat these steps for further recordings you may wish to programme.
- Press TIMER to activate the recorder's timer mode. Ensure that the video recorder symbol \bigcirc is displayed.



* Do not forget to verify that there is enough tape remain. The length of the recording must not exceed the time remain on the video cassette.

Timer recording

TIMER

SV120 HV60 HV65 HV55 HV50 MV20 MV15

Quitting the timer mode

Press TIMER, the video recorder symbol ⁽¹⁾ turns off.
 You can now play back a cassette or make a manual recording.
 Press TIMER again to reactivate the timer program you entered previously.



Displays the timer programmes for verifications (button on the unit only) Repeatedly press the button to view the details of the timer programmes on the video recorder's display panel.



Checking the timer programme

- Press PROG/CHECK, the Timer Recording menu will appear.
- Press **PROG/CHECK** again or **EXIT** to quit the menu.

Changing or cancelling a timer programme

- Press PROG/CHECK to display the Timer Recording menu.
- Press AV to select the entry you wish to edit.
- ENTER
- To change the entries: ◀▶▲▼
- ENTER
- Press RESET/CANCEL to cancel the timer programme.



Playing back programmed recordings

The unit will rewind to the beginning of the programmed recording and automatically start playing it back.

* You can also play back programmed recordings manually.

ShowView

ShowView	ShowView
83542	
0-9 :enter ENTER : access ◀ : correct EXIT : exit	

Timer re	cording				1/3
Pos	Date	Start	Stop	00	VPS PDC
1 ARD 1 ARD 2 ZDF	31/12 31/12 /	11:30 12:30 :	12:30 13:30	SP SP -	ON OFF
CANCEL :c	r t ք	· Enter): a	access		

SV120 HV60 HV65 HV55 HV50 MV20 MV15

- Press the **ShowView** button.
- Enter the ShowView number (press ◀ to correct any mistakes)
- ENTER

The Timer recording screen is displayed.

Press TIMER to activate the timer mode.
 Ensure that the video recorder symbol ⁽²⁾ is displayed.



If the unit fails to automatically detect the station press Ar or CH to enter it manually. The video recorder will store the information so that you will not have to enter it again later.

Editing the Timer recording data

- ENTER
- Select a station ▲▼, ▶ or press CH
- Set the date, week or day of week ▲▼, ▶ or press DATE
- Enter the start time: ▲▼, ▶ or press ON
- Enter the stop time: ▲▼, ▶ or press OFF
- Set the tape speed: A (Automatic), SP, LP, EP ▲▼, ► (does not apply to MV20)
- ENTER



- Press TIMER to activate the timer mode.
- * ShowView is a trademark of Gemstar Development Corporation. The ShowView system is manufactured under licence from Gemstar Development Corporation.

INTELLIGENT TIMER



This function makes it easier for you to time the recording of programmes transmitted by the same station at the same time but on different days. You can fully modify the programmes once they have been transferred to the Timer recording menu. The INTELLIGENT TIMER menu lists the information of the last 5 timer programmes.

To use the INTELLIGENT TIMER function you must first programme at least one normal timer programme.

- Press I-TIMER.
 - Press ▲▼ or I-TIMER to select a programme.
 - Press TIMER to activate the timer mode. The oldest programmes will be cancelled automatically.
 - Press RESET/CANCEL to cancel a programme.
 - To protect the data press ▶, the symbol 🗄 is displayed.
 - To unprotect the data press ◀.

SV120 HV60 HV65 HV55 HV50 MV20 MV15

Editing a programme

- Press I-TIMER.
- Press AV or I-TIMER to select a programme.
- Press ENTER to display the Timer recording screen.
- To change any of the data press ◀▶▲▼.
- Press ENTER to store a change.
- Press **TIMER** to activate the timer mode.

INTELLIGENT TIMER 25/10/03					
Pos	Date	Start	Stop	σο	VPS PDC
1 ARD 1 ARD 1 2 ZDF	25/10	18:30	19:30	SP	OFF
♦ [-TIMER]: select [TIMER]: store ENTER : edit ◀ : unlock ▶ : lock CANCEL : delete [EXIT] : exit					

Timer rec	ording				1/3
Pos	Date	Start	Stop	σο	VPS PDC
1 ARD 1 ARD			11:30 19:30		
	/	:	:	-	
	/	:	:	-	
	/	:	:	-	
	/	:	:	-	
💠 :sel	ect	ENTER	: store		_
(CANCEL) :	delete	EXIT :	exit		

General functions



SV120 HV60 HV65 HV55 HV50 MV20 MV15

Repeat playback

The video recorder repeats playback from beginning to the end of the recording.

- In Stop or Playback mode, press the Playback button ► for longer than 5 seconds. The video recorder displays an 'R'.
- Press Stop to stop playing back.

SV120 HV60 HV65 HV55 HV50 MV20 MV15



AUDIO settings

At each press of the **AUDIO** button, the selected sound output is indicated with L (Left) and R(Right).

Stereo	:	Display: LR
Left channel	:	Display: L -
Right channel	:	Display: - R
Mono	:	Display:

SV120 HV60 HV65 HV55 HV50 MV20 MV15



Finding the start of a recording

Quickly finds the start of a recording during playback or in Stop mode.

 ▶ Fast forward / ◄ Rewind Every time you press the button (max. 20 times) the video recorder will find the start of the next recording. Playback will start automatically.



• Press Stop ■ to exit the Search function.

General functions

SV120 HV60 HV65 HV55 HV50 MV20 MV15

Forward/backward search, JET SEARCH, still playback, slow playback

To protect the video heads, the unit automatically quits the Forward/Backward search, JET SEARCH, Still Playback, Slow Playback functions after 5-10 minutes. Interference and motor noise are not indicative of a malfunction.

SV120 HV60 HV65 HV55 HV50 MV20 MV15

Erasing a cassette

Press the **QUICK ERASE** button on the unit to remove all recordings from a cassette. It takes approx. 30 minutes to erase an E-180 cassette. Erasing avoids problems that may occur at the beginning and end of a recording taken straight over an existing one.

SV120 HV60 HV65 HV55 HV50 MV20 MV15

Limiting the recording and playback time

Switches the unit into stand-by mode after the set time of recording, playback or in Stop mode.

Press the button repeatedly to extend the switch-off time from 30 to 60, 120, 180 or 240 minutes. The timer setting appears on the display of the video recorder.

SV120 HV60 HV65 HV55 HV50 MV20 MV15

3D DNR, 3-Dimensional Digital Noise Reduction

Press the **3D DNR** button on the unit to activate the function. The setting of this function is displayed on the TV screen.



Menu Overview

Menu				
Timer reco	Timer recording			
Tuning				
Clock set				
Others				
Language	: English			
		_		
:select	ENTER : ACCESS			
EXIT : exit				

Tuning

Manual		
Auto Setup		
Shipping condition		
MENU : return EXIT : exit		
♦: select ENTER : access MENU : return EXIT : exit		

The cursor keys of the remote control unit **I** allow you to move between menus and to change settings.

- Press MENU to display the Menu screen.
- Select an entry by pressing ▲▼.
- ENTER

The selected menu is displayed.

- Select the item you wish to edit **AV**.
- ENTER
- Make the changes as appropriate. Follow the on-screen instructions.
- Press **MENU** to return to the previous menu.
- Press EXIT to quit the menu.

Manual Setup

Tuni	ng				
Pos	Name	Ch	Pos	Name	Ch
3 4	ARD ZDF N3 RTL SAT1	7 4 2 12 13	9	VOX PRO7 RTL2 KABE S-RT	95 85 97
A: delete B: move ◆ select ENTER : access MENU : return EXT : exit					

Pos Name Channel Fine tuning Decoder Video system	: 7 : : AUTO : OFF : AUTO
🗢 : select	
	xīī: exit

Options available for fine-tuning the channels

(Not every model supports all of the functions.)

Setting a new Channel

- Tuning ▼
- ENTER
- Manual
- ENTER
- Select a free line down the list ◀▶▲▼
- ENTER
- Press ◀▶ or the numeric keys to enter the channel number. Channel tuning will start. Wait until the desired station has been set. 'Fine tuning' may help to minimise any interference.
- Press MENU to return to the Tuning screen.

Pos		Station position setting.
Name		Station name setting.
Channel		Channel setting.
Fine tuning	AUTO / MAN.	Fine-tuning of disturbed picture.
Decoder	ON / OFF	If a decoder is attached.
Video System	AUTO / PAL / MESECAM	TV system set-up.
Mono	ON / OFF	Stereo-to-mono toggle.

Manual Setup

Tuning					
Pos	Name	Ch	Pos	Name	Ch
3 4	ARD ZDF N3 RTL SAT1	7 4 2 12 13	7 8 9	VOX PRO7 RTL2 KABE S-RT	95 85 97
A: delete B: move ◆select ENTER: access MENU: return EXIT: exit					

Pos	: 1
Name	: ARD
Channel	: 7
Fine tuning	: AUTO
Decoder	: OFF
Video system	: AUTO
+ : select	xııı : exit

Tuni	ng				
Pos	Name	Ch	Pos	Name	Ch
3 4	ARD ZDF N3 RTL SAT1	7 4 2 12 13	6 7 8 9 10		85 97
B: delete B: move ✦move ENTER : store MENU : return EXIT : exit					

Changing the name of TV stations

- Tuning ▼
- ENTER
- Manual
- ENTER
- Select a TV station ◀▶▲▼
- ENTER
- Select the Name entry ◀►. The cursor will mark the first letter **I**RD.
- Change that letter AV
- Next letter ▶, ARD
- MENU

The new name will be stored in the station table.

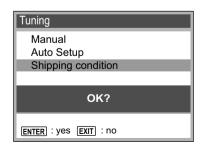
Changing the order of TV stations or deleting a station

- Tuning ▼
- ENTER
- Manual
- ENTER
- **B** /Green, an arrow at the left edge indicates which field has been selected.
- You can now move the station to any other location <> AV.
- ENTER
- A /Red to delete the station.

Manual Setup

Tuning
Manual
Auto Setup
Shipping condition
OK?
ENTER : yes EXIT : no

Auto Setup	
Country Tuning	: others : Ch 1
EXIT : exit	



Creating a new station table

- Tuning ▼
- ENTER
- Auto Setup ▼
- ENTER

The Country menu will be displayed.

- Select a country
- ENTER

The Auto Setup menu will be displayed. The Automatic Tuning will start.

Shipping condition / restoring factory defaults

- Tuning ▼
- ENTER
- Shipping condition $\pmb{\nabla}$
- ENTER
- * To restore the factory defaults (shipping condition) briefly unplug the AC Mains lead.

SV120	
Others	1/2
Tape length	: AUTO (4 E-240)
AV2	: DECODER
AV2 IN	: VIDEO
AV1 OUT	: VIDEO
TV system	: AUTO
S-VHS playback	: AUTO
OSD	: 4:3
🗢 : select	
MENU : return	EXIT : exit

HV60/55/65 HV50EC

Others	1/2
Tape length	: AUTO(∢E-240)
AV2	: DECODER
TV system	: AUTO
SQPB	: AUTO
OSD	: 4:3
Power save	: OFF
VCR display	: ON

MV15 MV20 HV50EG

Others	1/2
Tape length	: AUTO(∢ E-240)
TV system	: AUTO
SQPB	: AUTO
OSD	: 4:3
Power save	: OFF
VCR display	: ON
EXT LINK	: 2

	Sate tha t	ape length of the cassette you use.	
Tape length	AUTO (◄ E - 240), E - 195, E - 260, E - 300		
	Selects th outlet.	e type of external unit connected to the video recorder's AV2	
AV2	DECODEI EXT	R: If a decoder is connected. : If another video recorder or satellite receiver is connected.	
		u to record the S-Video signal of an external unit connected go recorder's AV2 outlet.	
AV2 IN	VIDEO S-VIDEO	 : If the unit does not support S-VIDEO. : If the unit support S-VIDEO. To connect use a 21-pin scart cable. 	
AV1 OUT	VIDEO S-VIDEO	: Video signal via the 21-pin scart cable. : S-Video signal via the 21-pin scart cable.	
TV system	AUTO PAL MESECAI	: Automatically detects PAL or MESECAM. : If you are using the PAL system. II : If you are using the MESECAM system.	
S-VHS playback	AUTO ON OFF	: The VCR automatically detects the type of recording : Plays back S-VHS format cassettes in the S-VHS format. : Plays back cassettes recorded in VHS format only.	
OSD	4:3 WIDE OFF	 Displays appear at the edge of the screen (displays not visible on 16:9 format screens). Displays appear at the edge of the screen (displays appear in the middle on 4:3 format screens). No on-screen displays 	
SQPB	AUTO ON OFF	 The VCR automatically detects the type of recording. Plays back S-VHS format cassettes in quasi S-VHS format Plays back cassettes recorded in VHS format only. 	

Menu Others

SV120

Others		2/2
Power save VCR display S-VHS REC S-VHS ET REC EXT LINK	: OFF : DIMMED : ON : OFF : 2	
: select MENU : return EXIT] : exit	

HV60/55/65 HV50EC

Others		2/2
EXT LINK	: 2	
🔶 : select		
MENU : return	EXIT : exit	

ON : The video recorder's display unit is off. In Power Save mode, Power save vou cannot change the VCR display setting. (only in stand-by mode) OFF : Factory setting; you can change the VCR display setting. Available only if the unit is not in Power save mode. VCR display **DIMMED** : The video recorder's display is dimmed. (only in stand-by mode) ON : The video recorder's display unit is on at normal brightness. In conjunction with the PAL TV system only. S-VHS REC ON : For S-VHS format recordings on a S-VHS type cassette. OFF : For VHS format recordings on a S-VHS type cassette. In conjunction with the PAL TV system only. S-VHS ET REC ON : Takes recordings at a higher picture quality on VHS-HG cassettes. In SP mode only OFF : Takes standard quality recordings. 2 : External recording control by satellite receivers or digital receivers (video signal). **EXT LINK** 1 : For digital receivers transmitting a special recording control signal, e.g. the F.U.N. receiver (TU-DSF31).

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Press AV to display the 2nd screen.

Decoder

Others	
Tape length	: AUTO(4 E - 240)
AV2	DECODER
AV2 IN	: VIDEO
AV1 OUT	: VIDEO
TV system	: AUTO
S-VHS playback	: AUTO
OSD	: 4:3
🔶 : select	
MENU: return EXIT	: exit

Tuning								
Pos	Name	Ch	Pos	Name	Ch			
1	ARD	7	6	VOX	8			
2	ZDF	4	7	PR07	95			
3	N3	2	8	RTL2	85			
4	RTL	12	9	PREM	97			
5	SAT1	13	10	S-RT	98			
A: delete B: move ✦ : select ENTER : access MENU : return EXT : exit								

SV120 HV60 HV65 HV55 HV50EC HV50EG/EP MV20 MV15

Connecting a decoder

Use a 21-pin scart cable to connect the decoder to the video recorder's AV2 socket.

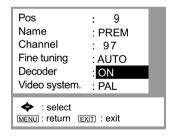
- Others ▼
- Set AV2 to DECODER ▼ This setting does not allow you to change option AV2 IN.
- Press **MENU** to return to the Menu screen.

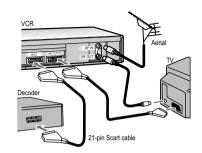
DECODER : If a decoder is connected.

EXT : If an external unit is connected, e.g. a second recorder or satellite receiver.

Setting the channel to Decoder

- Tuning ▼
- ENTER
- Manual
- ENTER
- Select a coded channel ▲▼
- ENTER
- Set Decoder to ON ▼,
- Press MENU to return to the station table.





External recording control

Others	2/2
Power save VCR display S-VHS REC S-VHS ET REC EXT LINK	: OFF : DIMMED : ON : OFF : 2
:select MENU : return EXIT	: exit

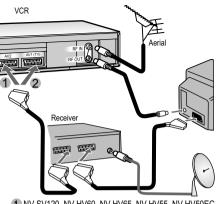
SV120 HV60 HV65 HV55 HV50 MV20 MV15

External recording control

- Others
- Select EXT LINK 2 or 1
- Press MENU to return to the Menu screen.

EXT LINK 2: External recording control of some satellite- or digital receivers (video signal).

EXT LINK 1: For digital receivers transmitting a special recording control signal, e.g. the F.U.N. receiver (TU-DSF31).



1 NV-SV120, NV-HV60, NV-HV65, NV-HV55, NV-HV50EC 2 NV-MV20, NV-MV15, NV-HV50EG



 Press EXT LINK to activate the recorder's recording stand-by mode. The video recorder will record all video output transmitted by the satelliteor digital receiver.

The following screen will be shown if you selected EXT LINK 2:



- Press ENTER to hide the message.
- Press EXT LINK to stop recording.
- * Be sure that the timer programs stored by your video recorder do not overlap the ones of the satellite or digital receiver.

Amplifier

NICAM sound system

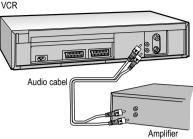
Tuni	ng				
Pos	Name	Ch	Pos	Name	Ch
34	ARD ZDF N3 RTL SAT1	7 4 2 12 13		PR07	85 97
A: delete B: move ✦ select ENTER : access MENU : return EXT : exit					

NTSC playback

SV120 HV60 HV65 HV55 HV50 MV20 MV15

Connect an amplifier

Use an audio cable to connect your video recorder to a stereo amplifier. Left = white (L/G) Right = red (R/D)If you have a scart adapter cable you can also connect the video recorder's AV socket to an amplifier.



SV120EC HV60EC HV65EC HV55EC

Select Mono: ON to record mono sound on the Hi-Fi-Audio tracks of the video recorder or if the quality of stereo sound reception is bad.

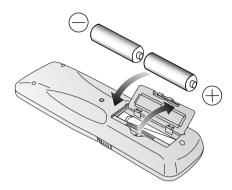
- Tuning
- ENTER
- Manual
- ENTER
- Select a channel
- ENTER
- Mono to ON or OFF

Pos:1Name:ARDChannel:7Fine tuning:AUTODecoder:OFFVideo systemPALMono:OFF	
◆ : select MENU : return EXIT : exit	

SV120 HV60 HV65 HV55 HV50 MV20 MV15

Playing back NTSC video cassettes

You can play back NTSC video cassettes for viewing on a PAL system (PAL 60) TV set. You cannot record on or copy video cassettes to NTSC-format cassettes.



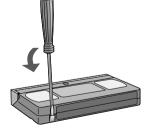
Inserting batteries into the remote control unit:

The batteries last for about a year, depending on how often you use the RC unit.

- Do not mix old with new batteries or batteries of different types. .
- Only use batteries without any harmful substances (such as lead, cadmium, mercury).
- Do not use rechargeable type batteries.
- Remove the batteries if the remote control unit will remain unused for longer periods of time.
- Do not heat or short-circuit the batteries.
- Immediately remove used-up batteries and replace with batteries of type AA, UM3 or R6.
- Be sure to put in the batteries the right way round (+and -).

Dispose of **<u>batteries</u>**, packaging material and the unit according to statutory regulations. They must not be thrown into the household refuse.





Cassette erasure protection

Break out the erasure protection tab to protect the cassette against accidental erasure of recordings you wish to keep. Stick adhesive tape over the gap if you wish to re-record a protected cassette.

Before requesting service

Manual correction of a bad picture:	 If you notice interference or a shift of the picture during normal, still or slow motion playback, press the TRACKING / V-LOCK button towards + or - to correct the picture. Press + and - together to actuate automatic correction. Some video cassettes do not support tracking control. This is not indicative of a malfunction.
The display of the VCR does not light up:	 Verify that the AC mains lead is properly attached. Check your Power save setting (page 23).
The display of the VCR is on but the unit does not respond to any input:	• There is an active timer programme. Press the TIMER button to deactivate it.
Noise from the transport mechanism:	 The unit's transport mechanism produces some noise when winding the tape fast forward or backward. This is not indicative of a malfunction.
The automatic clock does not set correctly:	 Set Clock set to AUTO (page 9). Set Time and Date manually if the unit does not find a station emitting the time signal. Check your Power save setting (page 23).

Before requesting service

Bad picture or sound:	 The use of E-300 cassettes may cause problems if the recordings were taken at slow tape speeds (LP or EP). Check the settings for PAL, MESECAM (page 22), NTSC (page 26). Verify that the aerial and/or scart cables are attached and work properly. Check the SQPB setting for S-VHS cassettes (page 22). Faulty recordings taken at slow tape speed (EP) in MESECAM are not indicative of a malfunction. Please contact your service technician if the video heads are dirty or worn out. Having a technical service shop clean the video heads is not covered by the guarantee. 			
The remote control unit does not work properly:	 Check the distance between the RC unit and the VCR (max. 7 metres). Check the batteries in the remote control unit (page 27). 			
The recording functions do not work properly:	 If on flashes on the unit, check if the protection tab of the video cassette is still in. Check the Clock set menu (page 9). Check the start and stop time of the timer programme (page 12). Check if the TIMER button has been pressed to put the unit into timer mode after programming a recording (page 12). Check the start and stop time of a VPS/PDC recording (page 11). 			

Please contact our aftersales service if you fail to remove problems yourself (see the Guarantee Information)

	nber and serial number of this product can be found on the back of the unit. hem and keep for future reference.
Model No.	
Serial No.	

Specifications

	SV120	HV60	HV65	HV55	HV50	MV20	MV15	
Power consumption	Power consumption							
Power consumption in operation	20W	18W	18W	18W	18W	16W	16W	
in Power save	3W	3W	3W	3W	3W	3W	3W	
Playback functions								
Video TV system	PAL	PAL	PAL	PAL	PAL	PAL	PAL	
NTSC Playback on PAL TV	Х	Х	Х	-	-	Х	-	
Record/ Playback time	SP/LP/EP	SP/LP/EP	SP/LP/EP	SP/LP/EP	SP/LP/EP	SP	SP	
S-VHS Quasi Playback (SQPB)	-	Х	Х	Х	Х	Х	Х	
S-VHS	Х	-	-	-	-	-	-	
S-VHS ET	Х	-	-	-	-	-	-	

- **CE** This equipment complies with European conformity requirements, in accordance with the conditions of electromagnetic compatibility and product safety.
- This equipment complies with the requirements of protection class 2.
- This equipment complies with the safety requirements of the VDE. (German Association of Electrical Engineers)

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Specifications

Power supply	220-240 V AC, 50/60 Hz
Controls	multifunctional remote control (VCR and Panasonic TV) / VCR direct controls (main functions)
Video and Audio heads (helical scanning system)	4 heads (Super Ferrite Head) / 2 heads Hi-Fi, Mono: 2 heads
Tape speed	SP: 23.39 mm/s , LP: 11.7 mm/s
Record and playback time (E-240 cassette)	SP: 240 min, LP: 480 min
Fast forward or fast rewind time (E-180 cassette)	approx. 60 s
Video TV Colour system	PAL colour signal
Video input and output level	1.0 V peak-to-peak, 75 Ohm, terminated
RF modulated	UHF channel (21-69), 75 Ohm
Audio Input level	-6 dBV, more than 10 kOhm
Audio Output level	-6 dBV, less than 1 kOhm
Horizontal resolution (colour)	more than 240 lines (VHS, SP), 400 lines (S-VHS/ S-VHS-ET, SP)
Signal-to-noise ratio video (colour)	more than 43 dB (SP)
Signal-to-noise ratio audio	more than 43 dB (SP, normal)
Dynamic range audio	more than 90 dB (Hi-Fi sound tracks)
Audio frequency response	80 Hz to 8 kHz (SP, normal)
	20 Hz to 20 kHz (Hi-Fi sound tracks)
Operating temperature / humidity	5°C to 40°C / 35-80% relative humidity
Weight and Dimensions (approximate value)	$3.5~\mathrm{kg}$ / 430 (width) x 87 (height) x 282 mm (depth)

* These specifications are subject to change without notice.

Index

	Page		Page		Page
3D DNR	6,17	MESECAM	22,29	Tape length	22
				Tape remain	5,10
AC mains lead protect	tion 2	NICAM	26	Tape speed	5,10
Antenna IN/OUT	7	NTSC	26,29	Time	9,28,29
AUDIO	5,16			TIMER CHECK	6,13
AUDIO output	7	O FF TIMER	5,17	TRACKING/V-LOCK	5,28
AV LINK	5	OSD	22	TV control button	5
AV1 OUT	22			TV system	22
AV1(TV)	7	PAL	22,29		
AV2	22,24	Power save	23,28	VCR display	23
AV2 IN	22	Power supply	7	VIDEO	22
AV2(DECODER)	7			VIDEO output	7
		Q UICK ERASE	17	Voltage	2
Channel	8,19,24			VOLUME	5
Country	9	Remote	4,5	VPS/PDC	5,11,12
CVC Super	6	RF-Coaxial Cable	8		
D (~~ ~~ ~-		
Date	9,28,29	Satellite Receiver	22,23,25		
DECODER	22,24	Scart Cable	8,10,24,29		
Digital Receiver	23,25	Screen format	5		
F (1) (1)	40.07.00	Service	2		
Erasure protection	10,27,29	ShowView	5,14		
EXT	22,24	Slow playback	4,17		
EXT LINK	5,23,25	SQPB	22,29		
	04	Still playback	4,17		
Factory defaults	21	S-VHS ET REC	23 22		
	16	S-VHS playback			
INDEX INTELLIGENT TIMER	16 15	S-VHS REC S-VIDEO	23		
	10	S-VIDEO output	22 7		
JET SEARCH	1 17		1		F03D03-0
JEI SEARUN	4,17			l RG	TD0038-A1