Panasonic [®]

Video Cassette Recorder

Operating Instructions





NV-SV121 Series (S-VHS, Hi-Fi)

NV-HV61 Series (Hi-Fi) NV-HV51 Series (Hi-Fi) NV-MV16 Series (Mono)



Before connecting the device, operating it or adjusting settings please read these operating instructions completely; especially the safety precautions on page 3.

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Dear customer

Thank you for your trust and your decision to purchase this top-quality device. Panasonic is one of the leading manufacturers of entertainment electronics devices. We are sure that you will be completely satisfied with this device.

Matsushita Electric Industrial Co., Ltd.

http://www.panasonic.co.jp/global/

Inserting Batteries

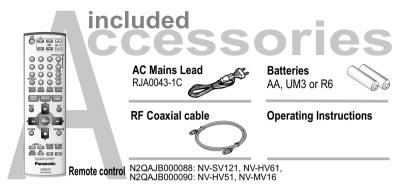
The batteries last for about a year, depending on how often you use the remote control unit.

- Do not mix old with new batteries or batteries of different types.
- Only use batteries without any harmful substances (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 usedup 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.







-If you see this symbol-

Information on Disposal for Users of Waste Electrical & Electronic Equipment (private households)



This symbol on the products and/or accompanying documents means that used electrical and electronic products should not be mixed with general household waste. For proper treatment, recovery and recycling, please take these products to designated collection points, where they will be accepted on a free of charge basis. Alternatively, in some countries you may be able to return your products to your local retailer upon the purchase

of an equivalent new product. Disposing of this product correctly will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling. Please contact your local authority for further details of your nearest designated collection point. Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

For business users in the European Union

If you wish to discard electrical and electronic equipment, please contact your dealer or supplier for further information.

Information on Disposal in other Countries outside the European Union

This symbol is only valid in the European Union. If you wish to discard this product, please contact your local authorities or dealer and ask for the correct method of disposal.

Safety Precautions

Keep the VCR away from high temperatures and avoid changes in temperatures.



Avoid magnets or magnetised objects



Don't put fingers or other objects inside.



Keep away from liquids.



Keep away from humidity and dust.



Install the VCR in a horizontal position. Do not place anything heavy on it.



Voltage: Only use power sources complying with the specifications for this device.

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: Never attempt to repair this unit by yourself. If a problem occurs that is not described in these operating instructions, disconnect the power supply and contact your dealer or an authorised after sales service centre.

The model and serial number of this product can be found on the back of the unit. Please note them and keep for future reference. **Model No.**Serial No.

WARNING:

TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR PRODUCT DAMAGE, DO NOT EXPOSE THIS APPARATUS TO RAIN, MOISTURE, DRIPPING OR SPLASHING AND THAT NO OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHALL BE PLACED ON THE APPARATUS.

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.
- DO NOT OBSTRUCT THE UNIT'S VENTILATION OPENINGS WITH NEWSPAPERS, TABLECLOTHS, CURTAINS, AND SIMILAR ITEMS.
- DO NOT PLACE SOURCES OF NAKED FLAMES, SUCH AS LIGHTED CANDLES, ON THE UNIT.
- DISPOSE OF BATTERIES IN AN ENVIRONMENTALLY FRIENDLY MANNER.

THIS UNIT IS INTENDED FOR USE IN MODERATE CLIMATES.

This product may receive radio interference caused by mobile telephones during use. If such interference is apparent, please increase separation between the product and the mobile telephone.

The socket outlet shall be installed near the equipment and easily accessible or the mains plug or an appliance coupler shall remain readily operable.

Front Panel VCR

VCR= Video Cassette Recorder

Detailed information is available on the specified pages.

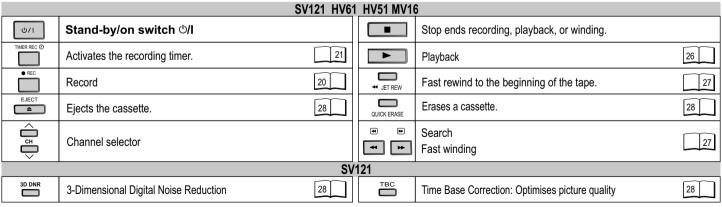


NV-HV61. NV-HV51. NV-MV16

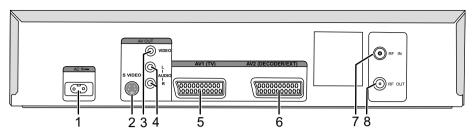




CVC super (Crystal View Control super): The picture is automatically adjusted as clear and sharp as possible.



Rear Panel VCR



SV121 HV61 HV51 MV16

1	AC IN~ (Power supply)
2	S-VIDEO output
3	VIDEO output
4	AUDIO output
	L = AUDIO output left channel
	R = AUDIO output right channel

5	AV1 (21-pin Scart socket)			
6	AV2 (21-pin Scart socket)			
7	RF IN = Antenna input			
8	RF OUT = Antenna output			
	·			

SV121 HV61 HV51 MV16

1	AC IN~ (Power supply)
4	AUDIO output L = AUDIO output left channel
	R = AUDIO output right channel

5	AV1 (21-pin Scart socket)		
6	AV2 (21-pin Scart socket)		
7	RF IN = Antenna input		
8	RF OUT = Antenna output		

SV121 HV61 HV51 MV16

1	AC IN~ (Power supply)

5	AV (21-pin Scart socket)		
7	RF IN = Antenna input		
8	RF OUT = Antenna output		

Remote control functions

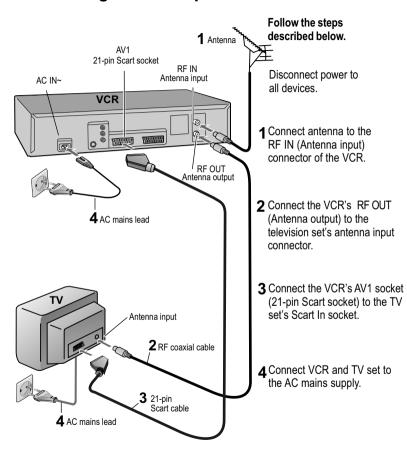
TV Controls			
Some Panasor	Some Panasonic television sets may be controlled with the remote control unit of this VCR.		
U	Television set Stand-by/on switch.		
AV	Selects the TV set's AV port.		
CH	Channel selector.		
VOL -	Volume control.		
	VCR Playback Control		
>	Normal playback	26	
	Stop ends recording, playback, or winding. Eject: Press and hold for more than 3 seconds.		
*	Fast forward/rewind when stopped, search forward or backwards during playback.	27	
PAUSE/SLOW	Stop a recording session. Still playback or Slow Playback.	27	
□INDEX ¬	Search beginning of a recording session.	27	
JET REW	Fast rewind to beginning of tape.	27	



N2QAJB000088: NV-SV121, NV-HV61 N2QAJB000090: NV-HV51, NV-MV16

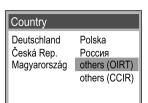
	VCR Standard Controls				
VCR	Stand-by/on switch Press to switch the unit from on to stand-by mode or vice versa. In stand-by mode, the unit is still consuming a small amount of		STATUS	Press repeatedly to display the time, tape counter or tape remain.	20
MENU	power.	inount of	RESET/CANCEL	RESET: Resets the counter to 0:00.00. CANCEL: Clears an entry you made.	28
MENU	Displays the menu.	14	0 2 3		
EXIT	Quits a menu.	14	4 5 6 7 3 9 0 -	Select programme storage position or enter the ShowView number. E.g.: 18 = • • •	24
INPUT SEL	Switches between AV inputs A1, A2, A3 and Tuner (depending on model).	13	TRACKING/V-LOCK	Channel select buttons.	
AUDIO	Audio mode.	28	<u>CH</u> -	Tracking control of VCR picture disturbance.	26
AV LINK	Switches from television reception to the video playba (does not apply to HV51, MV16).	ack channel.	SYTER >>	Menu navigation buttons.	
EXT LINK	Records with external recording control.	25		ENTER: Selecting or storing settings.	
	VCR	Record	ding Conti	rols	
ShowView	ShowView Menu (does not apply to HV51, MV16).	24	TIMER	Activate the recording timer mode.	21
I-TIMER	Programming TV programmes broadcasted at the same time and on the same channel.	23	REC	Record	20
OFF-TIMER	Switches the VCR into stand-by mode after a preset period of time during recording, playback or stop mode	. 26	REC MODE	Sets the tape speed.	20
PROG /CHECK	Displays the menu Timer recording.	21	A	Delete highlighted station.	16
PROG PLAY	Plays back programmed recordings.	22	B	Move highlighted station.	16

Connecting with a 21-pin Scart cable



VCR Auto Setup with 21-pin Scart cable

(Automatic tuning)



SV121 HV61 HV51 MV16

- If the Country menu does not appear after turning the device on, you may reset the device to its factory defaults (page 17).
 Upon doing so the VCR Auto Setup will start again.
- Turn on your television set.
- With the Stand-by/on switch turn on the VCR.
 The Country menu appears.
- With the arrow buttons select the according country, and confirm by pressing ENTER.
 Automatic tuning for all receivable TV stations begins.
 Approximate duration is 5 minutes.

SV121 HV61 HV51 MV16

If menu Clock set appears

If time and date are not transmitted by a TV station or you choose Russia from the Country menu, time and date must be set manually.

- Enter Time and Date with ▲▼ ◆▶ or ① ② ③...①, then save with ENTER.
- * Mind that a wrong date or time will influence the programmed recording of TV programmes (don't forget to change summer time and winter time).

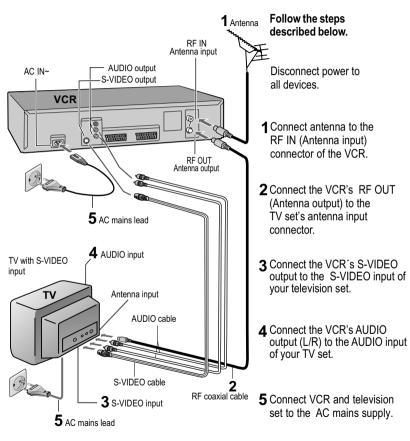
SV121 HV61 HV51 MV16

After running the automatic tuning Time and Date must be set manually.

Enter Time and Date with ▲▼ ◆▶ or ① ② ③...①, then save with ENTER.

Connecting with S-VIDEO cable.

SV121 Only



VCR Auto Setup with S-VIDEO cable

(Automatic tuning)

This VCR supports the S-VHS format, providing a high picture quality when playing back a S-VHS formatted cassette. When connecting via a S-VIDEO cable, it is still possible to play back cassettes recorded on the conventional VHS system.



SV121 HV61 HV51 MV16

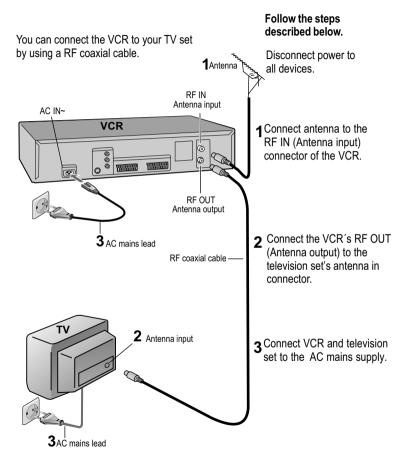
- If the Country menu does not appear after turning the device on, you may reset the device to its factory defaults (page 17).
 Upon doing so the VCR Auto Setup will start again.
- · Turn on your television set.
- With the Stand-by/on switch turn on the VCR.
 The Country menu appears.
- With the arrow buttons select the according country, and confirm by pressing ENTER.
 Automatic tuning for all receivable TV stations begins.
 Approximate duration is 5 minutes.

If menu Clock set appears

If time and date are not transmitted by a TV station or you choose Russia from the Country menu, time and date must be set manually.

- Enter Time and Date with ▲▼ ◆▶ or ⑤ ② ③...⑥, then save with ENTER.
- Mind that a wrong date or time will influence the programmed recording of TV programmes (don't forget to change summer time and winter time).

Connecting with RF Coaxial cable



VCR Auto Setup with RF Coaxial cable

(Automatic tuning)



SV121 HV61 HV51 MV16

* If the Country menu does not appear after turning the device on, you may reset the device to its factory defaults (page 17). Upon doing so the VCR Auto Setup will start again.

The Country menu appears.

With the arrow buttons select the according country, and confirm with ENTER.

Automatic tuning for all receivable TV stations begins. Approximate duration is 5 minutes.

SV121 HV61 HV51 MV16

If menu Clock set appears

If time and date are not transmitted by a TV station or you choose Russia from the Country menu, time and date must be set manually.

- Enter Time and Date with ▲▼ ◆▶ or ⑤ ② ⑤... ⑥, then save with ENTER
- * Mind that a wrong date or time will influence the programmed recording of TV programmes (don't forget to change summer time and winter time).

SV121 HV61 HV51 MV16

After running the automatic tuning Time and Date must be set manually.

Enter Time and Date with ▲▼ ◆► or ① ② ③…① , then save with ENTER.

Channel tuning / Correcting interferences

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.

Screen Display



Test pattern

VCR Display



RF Output Channel



RF Output Channel



Test pattern

- Turn on your television set.
- Turn on the VCR by pressing the **Stand-by/on switch**.
- Press MENU for about 5 seconds. The preset channel is displayed on the VCR-display.
- If there are any interferences select another channel on the television set and the VCR.

 Press the **CH** button to change the channel (e.g. Channel 41). Fine-tune television set until

Adjust television set to show the test picture.

- a clear picture is displayed.Confirm with ENTER.
- Confirm with ENTER.
 Continue VCR Auto Setup (Automatic tuning).
- * The VCR will not initiate the VCR Auto Setup if it was run once before.
 - Reset the device to factory defaults (page 17). Upon doing so you will be able to start VCR Auto Setup again.
- Press EXIT to abort VCR Auto Setup. You can run VCR Auto Setup again at another time.

If a 21-pin Scart cable is used, please adjust the following settings to disable the VCR's RF-output channel.



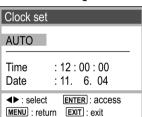
- Press MENU for about 5 seconds. The preset channel will be displayed on the VCR-display.
- Press channel select buttons CH or 0 to invoke [- -].
- · Confirm with ENTER.

Setting Time and Date



- Press MENU, the Menu screen appears.
- With AV select Clock set.
- Press ENTER.

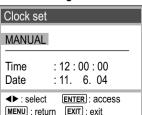
Automatic tuning



 Select [AUTO] and confirm with ENTER.

If the device does not find a TV station broadcasting the time signal, set Time and Date manually.

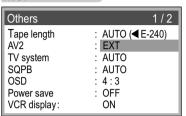
Manual tuning



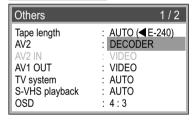
- Select [MANUAL] and confirm with ENTER.
- With ▲▼ ◆► or ① ② ③… ① enter Time and Date, then store with ENTER.

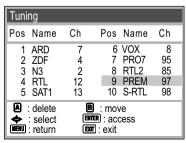
External Devices

HV61



SV121





SV121 HV61 HV51 MV16

Connecting a Set Top Box, satellite receiver, decoder or a second recorder.

You can connect a Set Top Box to receive digital broadcast by antenna (DVB-T) signals, a satellite receiver (digital/analogue) or a decoder to decrypt encrypted programmes.

Disconnect power to all devices.

Connect the external device to the AV2 input of the VCR by using a 21-pin Scart cable.

Connect VCR, television set and the external unit to the AC mains supply and switch it on.

- Press MENU.
- With ▼ select the Others menu and confirm with ENTER.

Set Top Box, satellite receiver, second recorder:

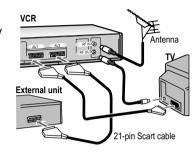
Select AV2 with ▼, and set to [EXT] with ◀▶.

Decoder:

- Select AV2 with ▼, and set to [DECODER] with ◀▶.
 This setting does not allow you to change option AV2 IN.
- Press MENU to return to the Menu screen.
 When using a decoder switch channel to decoder.

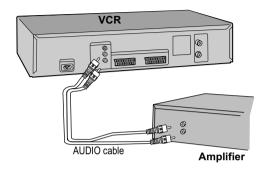
Setting the channel to decoder

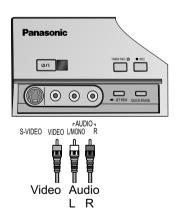
- Press MENU.
- With ▼ select menu Tuning and confirm with ENTER.
- With ENTER select Manual.
- With ◀▶, ▲▼ select the encrypted channel and confirm with ENTER.
- With ▼ select Decoder, then select [ON] with ◀▶.
- Press **MENU** to return to the Tuning menu.

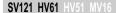


Pos	: 9
Name	: PREM
Channel	: 97
Fine tuning	: AUTO
Decoder	: ON
Video system	: PAL
Mono	: OFF
Audio mode	: DK
💠 : select	
: return	EXIT : exit

External Devices







Connecting an amplifier

Disconnect power to all devices.

Use an audio cable to connect your VCR to a stereo amplifier.

Left = white (L) Right = red (R)

Connect VCR, television set and the Amplifier to the AC mains supply.

* If you have a scart adapter cable you can also connect the VCR's AV socket to an amplifier.

SV121 HV61 HV51 MV16

INPUT SEL

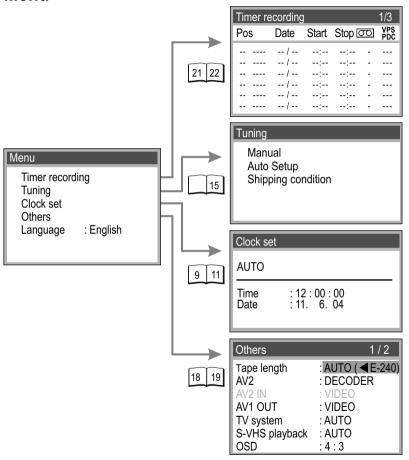
Connecting to the AV3 input

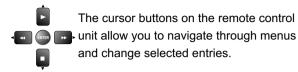
- Connect the VIDEO/S-VIDEO output of the device to be connected to the front panel VIDEO/S-VIDEO input of the VCR (e.g. a video camcorder).
- Connect the AUDIO output of the device to be connected to the AUDIO input of the VCR.
- With INPUT SEL select A3.



* To record the audio signal in Mono format, connect only the L/MONO input.

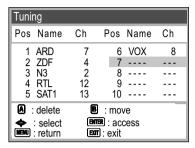
Menu





- Press **MENU**, the menu screen appears.
- With AV select the desired sub-menu.
- Press ENTER, the selected menu appears.
- With A select the entry you would like to change, then confirm with ENTER
- · Make your changes following the menu steps.
- With **MENU** return to the previous menu.
- Press **EXIT** to leave the menu.
- * Not every model supports all of the functions.

Manual Setup





Creating a new station table

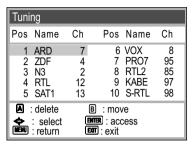
- Press **MENU**, the Menu screen appears.
- Select the Tuning menu by pressing ▼ and confirming with ENTER.
- Confirm Manual by pressing ENTER.
- With the ◆▶▲▼ buttons, select an open storage position.
- Press ENTER.
- Enter channel with the ◀▶ or ① ② ③...① buttons.
 Channel tuning starts. Wait until the desired station has been set.
 Fine tuning may help to minimise any interference.
- Press **MENU** to return to the Tuning screen.

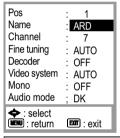
Options available for tuning the channels

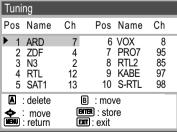
* Not every model supports all of the functions.

Pos		Station position.
Name		Station name setting.
Channel		Channel setting.
Fine tuning	AUTO / MAN.	Fine tuning of disturbed picture.
Decoder	ON / OFF	For reception of encrypted channels.
Video system	AUTO / PAL / MESECAM	TV system setup.
Mono	ON / OFF	Switch stereo to mono.
Audio mode	BG/I/DK	Audio system set-up

Manual Setup







Changing the name of TV stations

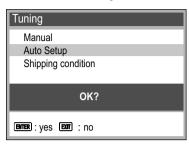
- Press MENU, the Menu screen appears.
- With ▼ select the Tuning menu, confirm with ENTER.
- · Confirm Manual with ENTER.
- With ◀▶▲▼ select the name entry.
- · Press ENTER.
- With ◆▶ select the name entry.
 The cursor will mark the first letter ARD.
- With AT change that letter.
- With ▶ select the next letter ARD.
- Press MENU.

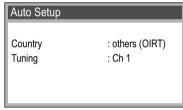
The new name will be stored in Tuning.

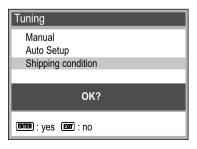
Changing the order of TV stations or deleting a station

- Press MENU, the Menu screen appears.
- With ▼ select the Tuning menu, confirm with ENTER.
- · Confirm Manual with ENTER.
- Press **B** . An arrow to the left will mark the selected field.
- With ◀▶▲▼ move the station to any other desired location.
- Press ENTER.
- Press A to delete the station.

Manual Setup







Creating a new station table

- Press MENU, the Menu screen appears.
- With ▼ select the Tuning menu, confirm with ENTER.
- With ▼ select Auto Setup, confirm with ENTER.
- Press ENTER to confirm.

The Country menu appears.

Select country with ◀▶▲▼ and confirm with ENTER.

The Auto Setup menu will be displayed.

The Automatic Tuning will start.

Shipping condition/factory defaults

- Press MENU, the Menu screen appears.
- With ▼ select the Tuning menu, confirm with ENTER.
- With ▼ select Shipping condition and confirm with ENTER.
- · Press ENTER to confirm.
- * To restore factory defaults briefly unplug the AC mains lead.

 Afterwards you will have to run VCR Auto Setup again.

Menu Others

SV121

Others	1/2
Tape length	: AUTO (◀E-240)
AV2	: DECODER
AV2 IN	: VIDEO
AV1 OUT	: VIDEO
TV system	: AUTO
S-VHS playback	: AUTO
OSD	: 4:3

HV61

Tape length : AUTO(◀E-24 AV2 : DECODER	/2
TV system	40)

HV51 MV16

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

Tape length	Sets the tape length of the cassette you use. AUTO (◀E - 240), E - 195, E - 260, E - 300			
AV2	Selects the type of external unit connected to the VCR's A DECODER: If a decoder is connected. EXT: If another video recorder or satellite receiver.			
AV2 IN	Allows you to record the S-Video signal of an external unit to the video recorder's AV2 socket. VIDEO : If the unit does not support S-VIDEO. S-VIDEO : If the unit supports S-VIDEO. To connect use a 21-pin scart cable.	connected		
AV1 OUT	VIDEO : Video signal via the 21-pin scart cable. S-VIDEO : S-Video signal via the 21-pin scart cable.			
TV system	AUTO : Automatically detects PAL or MESECAM. PAL : If you are using the PAL system. MESECAM : If you are using the MESECAM system.			
S-VHS playback	AUTO : The VCR automatically detects the type of re ON : Plays back S-VHS format cassettes in the S-VI OFF : Plays back cassettes recorded in VHS format	HS format only.		
OSD	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 in the No on-screen displays.			
SQPB	AUTO : The VCR automatically detects the type of responsible to the type of type of type of the type of type	S-VHS format.		

Menu Others

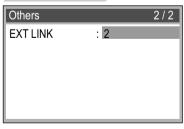
SV121

Others		2/2
Power save VCR display S-VHS REC S-VHS ET REC RFC system EXT LINK	: OFF : DIMMED : ON : OFF : DK : 2	

HV61

Others		2/2
RFC system EXT LINK	: DK : 2	

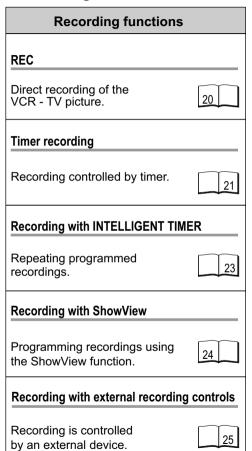
HV51 MV16



Press ▲▼ to display the 2nd screen.

Power save Only in stand-by mode	ON OFF	: The video recorder's display unit is off. In Power Save mode, you cannot change the VCR display setting. To control an external appliance via AV2 Scart socket, the VCR first needs to be switched on. : Factory setting; you can change the VCR display setting.		
	Available	only if the unit is not in Power save mode.		
Only in stand-by mode	DIMMED ON	: The video recorder's display is dimmed.: The video recorder's display unit is on at normal brightness.		
	In conjunction with the PAL TV system only.			
S-VHS REC	ON OFF	: For S-VHS format recordings on a S-VHS type cassette. : For VHS format recordings on a S-VHS type cassette.		
	In conjun	ction with the PAL TV system only.		
S-VHS ET REC In SP mode only	ON	: Takes recordings at a higher picture quality on VHS-HG cassettes.		
	OFF	: Takes standard quality recordings.		
RFC system	DK/ I /BG	: TV system set-up		
EXT LINK	2	: External recording control by satellite receivers or		
EXILINA	1	digital receivers (video signal). : For digital receivers transmitting a special recording control signal, e.g. the F.U.N. receiver (TU-DSF41).		

Recording



SV121 HV61 HV51 MV16



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

- Select channel to record from.
 When recording from an external device, select from Scart inputs AV1, AV2, or the front panel input AV3.
- · Press REC to start recording.
- Press PAUSE/SLOW to pause recording.
 To protect the video heads this function will be terminated after approx. 5 minutes.
- · Press PAUSE/SLOW again to resume recording.
- * Recordings in the S-VHS or S-VHS ET REC mode are supported by the PAL TV system only (SV121 only, page 19).

Tape speed



 Prior to starting the recording session, press REC MODE to set the tape speed.

SP: normal recording time
 LP: double recording time
 simple picture quality
 reduced picture quality

When playing back LP or EP recordings, interferences may occur when using certain types of cassettes (e.g. Type E-300). These are not indicative of a VCR malfuncion.

Tape Remain counter



The display of the VCR shows:

Time - Counter - Tape Remain.

• Press STATUS until [RE] is displayed.

Timer recording





SV121 HV61 HV51 MV16

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 recordings.

- Press PROG/CHECK and select a free storage position AV.
- · Confirm with ENTER.
- Select a station ▲▼, and use ► to set date, week or weekday ▲▼.
- Then enter start- and stop-time ▲▼, ▶.
- Hold buttons down to change time in 30-minute steps.
- Select tape speed: A (Automatic), SP, LP, EP ▲▼, ▶.
- The VPS/PDC settings may be changed with ▲▼ (does not apply to HV51, MV16).
- Press **ENTER** to save timer programme.
- Repeat these steps for further recordings you may wish to programme.
- Press **TIMER** to activate the VCR's timer mode. Make sure the VCR symbol ⊕ is displayed.
- * Do not forget to verify that there is enough tape left. The length of the recording must not exceed the tape left on the video cassette.



Quitting the timer mode

Press TIMER, the VCR symbol ⊕ will turn off.
 You can now play back a cassette or make a manual recording. Press TIMER again to reactivate the previously entered timer programme.

Timer recording

SV121 HV61 HV51 MV16

Checking the timer programme

- Press PROG/CHECK, the Timer recording menu appears.
- Press PROG/CHECK again or EXIT to quit the menu.

Changing or cancelling a timer programme

- Press PROG/CHECK, the Timer recording menu appears.
- With AV select the entry you would like to edit, confirm with ENTER.
- Modify entries with ◀▶▲▼ and confirm with ENTER.
- Press RESET/CANCEL to delete a recording.

Playing back programmed recordings

Press PROG PLAY.

The device will rewind to the beginning of the recording, and automatically start playing it back.

SV121 HV61 HV51 MV16

Automatic SP/LP selection

- A: If, at the beginning of a timer programme, there is not enough tape left 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.

SV121 HV61 HV51 MV16

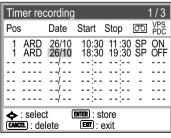
VPS/PDC function

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 through a VPS signal transmitted by the TV station.

- 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 time such that the entire film can be recorded even if a programme begins or ends earlier or later than planned.

Recording with INTELLIGENT TIMER





SV121 HV61 HV51 MV16

The INTELLIGENT TIMER allows you to easily time the recording of programmes broadcasted by the same TV station at the same daytime at different days.



To use the INTELLIGENT TIMER function, at least one recording session must be programmed in the Timer recording menu (page 21). This information will be copied into the INTELLIGENT TIMER menu.

Upon completing the programmed recording session, such session information will be deleted from the Timer recording menu, but remain available in the INTELLIGENT TIMER menu. From there such information may be copied back to the Timer recording menu, thus allowing you to easily programme the recording session again with changed dates.

The INTELLIGENT TIMER menu will contain information about the last 5 programmed recording sessions.

Copying stored recording sessions

- · Press I-TIMER.
- With AV or I-TIMER select recording session.
- Press TIMER to activate the timer mode.

Editing a programme

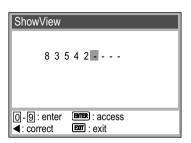
- · Press I-TIMER.
- Press ▲▼ or I-TIMER to select a programme and confirm with ENTER.
- · The Timer recording screen appears.
- With ◆▶▲▼ modify the desired data, and store changes with ENTER.
- Press TIMER to activate the timer mode.

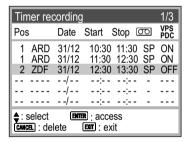
Protecting I-TIMER programmes

If there are 5 entries in the INTELLIGENT TIMER menu, the next and every following entry overwrites the oldest programme setting.

- Press I-TIMER
- With AV select an entry.
- To protect the entry press ▶. The ⊕ symbol appears.

Recording with ShowView





ShowView

is a trademark of Gemstar Development Corporation. The ShowView system is manufactured under licence from Gemstar Development Corporation.

SV121 HV61 HV51 MV16



Programming recordings with the ShowView function

The ShowView code simplifies entering programme information to record TV and SAT programmes.

- Press ShowView.
- Enter the ShowView number (◀ to correct entry).
- Confirm entry with **ENTER**.

The Timer recording screen appears.

If the device fails to recognise the TV station automatically, it must be entered manually with AV. The VCR will store this information so it will not have to be entered again.

Activating timer mode

• Press **TIMER** to activate the timer mode.

The O symbol appears on the VCR display.

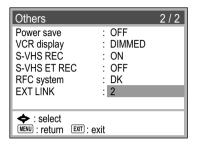
Modifying programmed data

- Press PROG/CHECK, the Timer recording menu appears.
- With AV select the entry to be modified, confirm with ENTER.
- Select station ▲▼ and use ▶ to set date, week or weekday ▲▼, ▶.
- Then enter start and stop time ▲▼, ▶.
- Select tape speed: A (Automatic), SP, LP, EP ▲▼, ▶ and confirm with ENTER.



Press TIMER to activate the VCR's timer mode.

Recording with external recording controls





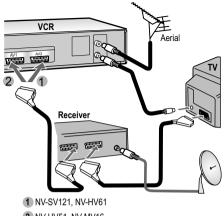
EXT LINK

SV121 HV61 HV51 MV16

- Press MENU, the Menu screen appears.
- With ▼ select menu Others and confirm with ENTER.
- With ▲▼ select EXT LINK and turn to
 [2] or [1] ◀▶ .
- Press **MENU** to return to the Menu screen.

EXTLINK 2: External recording control for 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-DSF41).



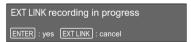
2 NV-HV51, NV-MV16

Press EXT LINK to activate the VCR's recording stand-by mode.

Make sure the VCR's EL1 or EL2 display appears.

As long as the satellite or digital receiver transmits the special recording signal (EL1), or a video picture is transmitted (EL2), the VCR will continue to record.

The following screen will be shown if you select EXT LINK: [2]:



- Press **ENTER** to hide this message.
- · Press EXT LINK to stop recording.
- * Be sure that the timer programmes stored by your VCR do not overlap with the ones of the satellite or digital receiver.

Quitting recording stand-by mode

Press EXT LINK to quit recording stand-by mode.

The EL1 or EL2 display disappears.

You can now play back a cassette or make a manual recording. You must press **EXT LINK** again to reactivate the recording stand-by mode.

Playback

Optimising the playback picture quality

Normally the VCR automatically adjusts the playback picture to the highest possible quality. Sometimes it may be necessary though to adjust the picture manually.

Picture noise or unclear picture during playback. (Tracking)

While in regular playback or in slow motion press programme selection button (2) (-) or (+) until the noise disappears. If noise appears in a still picture, first switch VCR to slow motion, then adjust tracking.



* In some video cassettes tracking can not be adjusted. This is not indicative of a VCR malfunction.

Automatic tracking control

Simultaneously press ♥ (-) and ♠ (+).

The still picture runs up or down

- until the picture stands still.
- * On some TV sets special playback functions may cause the picture to shift up or down. This is not a VCR malfunction.

SV121 HV61 HV51 MV16



Normal playback

- Turn on the VCR
- Be sure the TV set is turned on and tuned to the video. playback channel.
- Insert a video cassette.
- Press PLAY ▷ to start playback.
- Press STOP □ to end playback.

Playback from power stand-by mode

When inserting a cassette and pressing **PLAY >**, the device will turn itself on and start playing back.

Starting automatic playback

When inserting a cassette with removed protection tab. playback will start automatically.

Repeat playback

The VCR repeats playback from beginning to the end of the recording.

- In stop or playback mode press **PLAY** ▷ for longer than 5 seconds.
 - The symbol [R] appears on the VCR's display.
- Press STOP □ to end playback.

OFF-TIMER Time limited recording or playback

During recording, playback or stop mode the device switches to stand-by after a preset period of time.

Press the button repeatedly to increase this period from 30 to 60. 120. 180 or 240 minutes.

The set time appears in the VCR's display.

Press OFF-TIMER

General convenient functions

SV121 HV61 HV51 MV16

Auto-Start

When inserting a cassette the VCR will automatically switch on.

Automatic rewinding

When a cassette is played to the end, the VCR will automatically rewind it to the beginning of the tape.

* This function is not available during programmed recording sessions.

Search forward ▶ or backwards ◀

- While playing back press ▶ or ◀, the search begins.
- When pressing the button twice (JET SEARCH) the search speed increases.
- When holding the button down the search will run for the duration of the button being held.
- Press **PLAY** ▷ to end search.
- * This function is not available in some cases (e.g. at the beginning or end of the tape).

Fast winding forward ▶ or backwards ◀

In stop mode press → or ◀.
 Press STOP □ to end winding.

JET REW

For fast rewinding to the beginning of the tape.

On a E180 cassette approx. 43 seconds.

* Tape counter and tape remain display are unavailable during this function.

SV121 HV61 HV51 MV16

Quick search for a beginning of a recording

While playing back or in stop-mode.

- INDEX ►►I tape winds forward / INDEX ►
 Every time you press the button (max. 20 times) the
 VCR will find the start of the next recording.
 Playback will start automatically.
- Press STOP □ to exit the Search function.

Still playback

- Press PAUSE/SLOW during playback.
- To exit still playback press PAUSE/SLOW again or PLAY ▷.

Slow playback (does not apply to MV16)

- During playback press PAUSE/SLOW for longer than 2 seconds.
- To exit slow motion playback press PLAY ▷.

Automatic stop function

To protect the video heads the device will automatically quit the functions search backwards/forwards, quick search, still playback and slow playback after 5-10 minutes. Interference and motor noise are not a malfunction.

General convenient functions

SV121 HV61 HV51 MV16

Tape Counter

When inserting a video cassette the tape counter will automatically reset to [0:00.00].

• The tape counter may also be reset to [0:00.00] by pressing the RESET/CANCEL button.

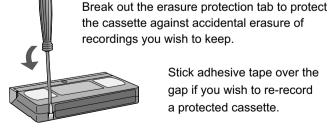
SV121 HV61 HV51 MV16

AUDIO settings

Select audio playback mode by repeatedly pressing the **AUDIO** button.

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

Cassette erasure protection



Stick adhesive tape over the gap if you wish to re-record a protected cassette.

Device only operation.

SV121 HV61 HV51 MV16

Automatic shut down and removing cassettes

If the VCR is switched into stand-by mode, the cassette may be removed by pressing the **EJECT**-button.

Once done the VCR will switch back to stand-by mode.

QUICK FRASE

To record on a cassette containing previous recordings without loss of quality, erase these recordings with the QUICK ERASE function.

 Press and hold the QUICK ERASE button for a few seconds. It takes approx. 30 minutes to erase an E-180 cassette.

High quality functions

SV121 HV61 HV51 MV16

3D DNR, 3-Dimensional Digital Noise Reduction

Improving picture quality by noise reduction.

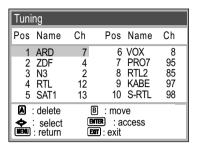
 Press the 3D DNR button to deactivate this function. The status will be displayed on the TV screen.

TBC, TIME BASE CORRECTION

TBC offers undistorted and stable playback picture quality.

• Press the **TBC** button to deactivate this function. The status will be displayed on the TV screen.

NICAM sound system

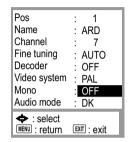


NTSC playback

SV121 HV61 HV51 MV16

Select Mono: [ON] to record mono sound to the Hi-Fi audio tracks of the VCR, or if the quality of stereo sound reception is bad.

- Press MENU, the Menu screen appears.
- With ▼ select the Tuning menu and confirm with ENTER.
- · Confirm Manual with ENTER.
- With ◆▶▲▼ select the desired channel and confirm with ENTER.
- With ▼ select Mono and switch to [ON] or [OFF] with ◀▶.
- Press **MENU** to return to Tuning.



SV121 HV61 HV51 MV16

Playing back NTSC video cassettes

You can play back NTSC video cassettes for viewing on a PAL system TV set. If there is any interference when playing back NTSC, try readjusting your TV set. Read the operating instructions of your TV set. You cannot record or copy video cassettes in NTSC format.

Before requesting service

The VCR display is not lit: Bad picture or sound: Check AC mains connection • The use of E-300 cassettes may cause problems if the recordings 19 · Check Power save were taken at low tape speeds (LP or EP). 18 · Check [PAL] and [MESECAM] settings. The VCR display is lit, the device does not respond to controls: · Verify that the aerial and/or Scart cables are attached and work properly. • Device is set to recording stand-by or timer mode. 18 • Check the SQPB/ S-VHS playback setting for S-VHS cassettes. Quit with EXT LINK button or TIMER button. • Faulty recordings taken at slow tape speed (EP) in [MESECAM] Raised motor noise level: are not malfunctions. · Please contact your service technician if the video heads are dirty · Fast winding forward and backwards causes motor noises. or worn out. These are not malfunctions. · Having a technical service shop clean the video heads is not covered by the guarantee. Remote control unit functions don't work: The recording functions do not work properly: • Check distance to the device (max. 7 metres). 2 · Check remote control unit's batteries • If on flashes on the device, check if the protection tab of the video cassette is still in. Automatic Clock set doesn't work properly: · Check Time and Date 111 • Check the start and stop time of the timer programme. 21 11 • Set Clock set to [AUTO]. • Check if the **TIMER** button has been pressed to put the device If the device cannot find a TV station transmitting the time signal. set Time and Date manually. into timer mode after programming a recording. Check the start and stop time of a VPS/PDC recording.

Specifications

Switching this appliance into stand-by mode does not disconnect it from the mains.

Power supply 220-240 V AC. 50/60 Hz Power consumption HV51 MV16 SV121 **HV61** Power consumption in operation 18W 15W 15W 13W in Power save mode 19 3W 3W 3W 3W Multifunctional remote control (VCR and Panasonic TV) / Controls VCR direct controls (main functions) **Playback functions** SV121 HV61 HV51 MV16 Video TV system PAI PAI PAI PAI NTSC Playback on PAL TV Χ Χ Χ Χ Χ S-VHS Quasi Playback (SQPB) S-VHS Χ χ S-VHS ET S-VHS/Hi-Fi: 4 heads / 2 Audio heads. Mono: 2 heads Video and Audio heads (helical scanning system) SP: 23.39 mm/s, LP: 11.7 mm/s Tape speed Record and playback time (E-240 cassette) SP: 240 min. LP: 480 min 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 More than 240 lines (VHS, SP), 400 lines (S-VHS/ S-VHS-ET, SP) Horizontal resolution (colour) More than 43 dB (SP) Signal-to-noise ratio video (colour) More than 43 dB (SP, Mono) Signal-to-noise ratio audio More than 90 dB (Hi-Fi sound tracks) Dynamic range audio 80 Hz to 8 kHz (SP, Mono), 20 Hz to 20 kHz (Hi-Fi sound tracks) Audio frequency response Operating temperature / humidity 5°C to 40°C / 35-80% relative humidity Weight and dimensions (approximate value) 3.5 kg / 430 (width) x 89 (height) x 276 mm (depth)

^{*} These specifications are subject to change without notice.

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