



VR 988/78

# VR988

# PHILIPS

## Video Cassette Recorder



Philips and JVC Video Malaysia Sdn Bhd (PJVM) was established in the year 1988 and was then known as JVC Video Manufacturing Malaysia Sdn Bhd (JVM). A joint venture was inaugurated between Philips and JVC in the year 1991 and the change of name from JVM to PJVM became official on February 1st of that year. It was the first company to manufacture VCRs in Malaysia.

Today, PJVM is well known in the world of VCRs and has become the leader among the manufacturers of VCRs with the full support of JVC, the inventor of the VHS format, and the invaluable guidance rendered by Philips.

### Technical Specifications (VR 988/78)

GENERAL	DISPLAY / TIMER	Super VHS ET
Chassis : V11	Level Meter : 0	<b>1. Video Signal Recording System:</b> - Video input/output signal: NTSC-type color signal and separated Y/C signals conforming to NTSC - Luminance signal recording: Frequency modulated (FM) recording (conforming to Super VHS) - FM frequency: White peak: 7.0 ± 0.1 MHz (conforming to Super VHS) Sync tip: 5.4 ± 0.1 MHz (conforming to Super VHS) Deviation: 1.6 MHz (conforming to Super VHS) - Clip level: White clip: 190 ± 10% (210% for Super VHS) Dark clip: -70 ± 10% (conforming to Super VHS) - New signal emphasis - Chrominance signal recording: Color-under phase-shift recording of quadrature modulated chrominance signal (conforming to Super VHS)
Dimension : 435 x 94 x 330	Dimmer : Auto	
Mains Voltage : (+/- 10%) : 110 - 240V	On Screen Display : Portuguese/English/ Spanish	
Power Plug : SEV	Timer Program : 1 Yr / 8 Events	
Front Panel Finishing : Nickel Gold Metallic	Power Backup Time : Lithium Batt. CR2025	
Top Cover Embossed : 0	Instant Recording (OTR) : 0	
Color Carton : 4C	Quick Timer Programming : 0	
Handle : 0		
Jog / Shuttle on set (J/S) : 0 (J/S)		
VIDEO	TAPE ACCESS	<b>2. Audio Signal Recording System:</b> - Linear track recording: conforming to VHS audio recording method - FM recording: conforming to VHS audio recording method
Video System - Rec : PAL M, NTSC	Real Time Counter : 0	
Video System - Playback : PAL M, NTSC	Repeat (50 Times) : 0	
S-VHS : 0	Index Search : 0	
S-VHS / ET : 0	Skip Search : 0	
No. of Heads : 4 + 2		
Head Cleaner : 0	CONNECTORS	
Recording Speed : SP / SLP	Front AV Socket : 0 (RCA + SVHS)	
Playback Speed : SP / LP / SLP	Rear S-VHS In : 0	
Still Picture (SP mode) : Perfect	Rear S-VHS Out : 0	
Blue Back : 0		
Picture Control : Incredible Picture	REMOTE CONTROL	
MacroVision : 0	Jog and Shuttle on remote : 0	
	Illumination Function Key : 0	
	Philips TV Functions on RC : 0	
	Multibrand TV Compatibility : 0	
AUDIO		
Hifi Stereo : 0		
TUNER		
Tuning System : FST		
No. of Channel Position : 181CH		
Broadcasting Standard : M		
Frequency Coverage : V / U / CATV		
Modulator : CH 3/4		

Subject to modification without notice



• Super 400 lines picture quality • 19 Micron Super 6 Head  
 • Plug & Play Set-up • Lighted Jog / Shuttle Multibrand TV Remote Control • Battery Back-Up • Trilingual On Screen Display • Quick Timer Programming • Incredible Picture Chip - Best Performance & Reliability .

**SVHS** VHS M-PAL NTSC

Let's make things better.



**PHILIPS**

Let's make things better.



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# "SUPER VHS ET" CAPABLE OF RECORDING OVER 400 LINES OF HIGH RESOLUTION ON CONVENTIONAL VHS TAPES

The brand-new technology "Super VHS ET (Expansion Technology)" makes it possible to record Super VHS quality on Standard VHS tapes.

The new "Super VHS ET" feature on Super VHS decks will allow users to record high-resolution Super VHS signals on the most widely available VHS cassettes, thus delivering over 400 lines of resolution. In turn, the new technology allows more users to easily enjoy higher-resolution which previously had been available only to owners of Super VHS decks using Super VHS cassette tapes. The technology will substantially expand the scope of higher-quality home picture recording and the penetration of Super VHS.

The new "Super VHS ET" is a system technology consisting of the newly developed "High-Resolution Recording System," "High Performance Video Head" and "Pre-Amp." This technology, making it possible to record 160% wider signal frequency range on VHS tapes, allows the recording of 400 lines of resolution on VHS tapes (HG tape is recommendable). In the background of this development is the fact that performance of video tapes and high quality picture technology of VHS video decks have been remarkably improved in recent years.

## Super VR 988



MATCH LINE

S-VHS VHS M-PAL NTSC

S-VHS-ET

19 micron SUPER 6 HEAD

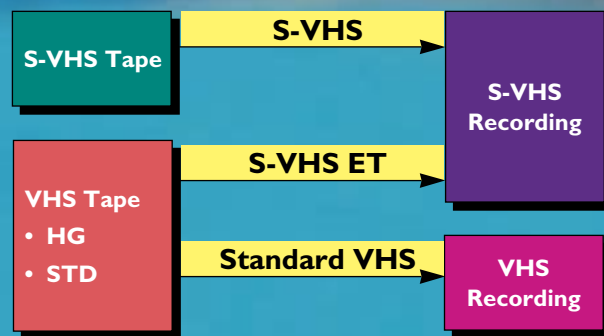
Plug & Play  
Incredible Picture

Lighted  
Jog/Shuttle Multi Remote

VISS



### S-VHS ET Concept



#### Key benefit and communication for SVHS ET :

- Perfect solution of high resolution picture (400 lines vs. 240 lines)
- Cheaper hardware cost than S-VHS in the past
- Enable to use standard tape for S-VHS recording
- Same running cost of recording on VHS

#### Feature Contents

- **S-VHS**  
More than 400 lines of horizontal resolution, (VHS 240 lines) and separate luminance (Y) and chrominance (C) signal processing. This provides Best picture quality.
- **S-VHS ET (S-VHS Expansion Technology)**  
400 lines picture quality can be recorded on standard tape. This allow low running cost (same as normal recording on standard tape) for perfect picture quality.
- **6 Head - 4 Video & 2 Audio**  
The DA 4 Head design ensures a perfect still, interference free slow motion & frame-by-frame advance picture while another 2 heads are added to provide high quality Stereo Hifi sound both in Playback & Recording. By connecting the audio output to a Hifi Audio System, you will be able to enjoy superb sound for the complete Home cinema experience.
- **Pro-cision EP 19µ Heads**  
By applying these narrow heads, the output level in SLP will be increased this improving the SLP playback quality. Picture noise in dark area and unstable feeling on screen will be cleared up. The picture quality in EP mode will be completely different from before.

#### • Plug & Play Set-up

Easier and faster tuner setup of the VCR after connecting the set to the mains and via RF cable or AV cable to the television set. By switching on the set, automatically the installation menu will start and step-by-step, the user will be instructed to give input for the VCR installation.

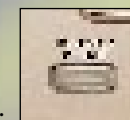
#### • Lighted Jog / Shuttle Multibrand TV Remote Control

This unique Remote Control will control most brands of colour television for the power On/Off, channel Up/Down as well as Volume Up/Down. By pushing a button, the main function on the remote control are illuminated by a red led. This is very convenient in a dark environment as the Remote Control functions are now clearly visible. The Jog and Shuttle control completes this remote for easy and accurate scenery pinpointing and editing.



#### • Incredible Picture Chip

Through advanced circuit design and the Audio / Video signal processing, the Picture Performance of this VCR is truly INCREDIBLE. By utilizing the Incredible Picture Chip, an all-in-one control system as well as an automatic adjustment process, the very Best Picture Performance has been guaranteed. Automatic adjustments are also made when worn or noisy Rental tapes are played back, ensuring the very Best Picture Performance for every occasion.



#### • Trilingual On Screen Display

Operation is made even easier by this function, which clearly shows you the status and settings of the VCR on your TV screen. On Screen Display is also used for step-by-step programming recordings, so you can see what you are doing at every stage and confirm it error free. The choice of languages are Portuguese, English & Spanish.

#### • Quick Timer Programming

By pressing buttons on Remote Control Unit, direct programming will be operated. It is so easy and quick.

#### • Video Index Search System (VISS)

At the start of each recording, an index code is written automatically enabling the VCR to identify the start of the programmes. Easy scanning of the tape to the starting point of each programme. Full playback control and easy editing of own video tapes.

#### • S VHS + A/V Front In Socket

This feature provide a high quality and convenient connection from other VCR or camcorder to your VCR for the purpose of dubbing onto your VCR.

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