

8 head Digital VCR

VR20D

## Enjoy the benefits of Digital technology at home!

- **Digital Picture and Sound quality** - D-VHS enhances the Picture and Sound quality of your recordings to a level never seen before.
- **Up to 21 hours Widescreen TV-recording** – Enjoy the possibility to have up to 21 hours of recording on one tape (DF-420) with D-VHS.
- **Digital Camcorder recording** - D-VHS is the best archiving medium for your Digital Camcorder videos. You can make perfect digital copies (DV to D-VHS) with up to 7 hours of recordings on one D-VHS cassette (DF-420). Naturally D-VHS is also the perfect digital storage medium for your analogue camcorder recordings.
- **MPEG Encoder/Decoder** – The encoder makes a perfect digital picture out of your analogue signals. The decoder turns the digital signals in an analogue signal, so you can enjoy perfect picture and sound quality on your normal TV.
- **100% backwards compatibility** - We made sure that with a D-VHS recorder you can still use existing VHS and S-VHS tapes for recording and playback. By this means, D-VHS manages a smooth transition into the digital future.

DVHS

MPEG

TURBO  
DRIVE

SHOWVIEW

SMART  
PICTURE

NEXTVIEWLINK

NTSC  
PLAYBACK



Let's make things better.



PHILIPS

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## Preliminary specifications

	S-VHS/VHS	D-VHS
<b>Reception</b>		
Tuner	Full (UHF + VHF + Hyperband) Tuner	
Tuning	FST, CH entry, 99 presets	
Tuning/Install Features	Guide Channel Mapping, Manual Search/Store, Plug & Play	
Sound System Off Air	German Stereo, NICAM, Mono	
<b>User Interface</b>		
OSD Menu Languages	English, German, Dutch, France, Italian, Spanish, Swedish, Norwegian, Finish, Danish	
Time/Date Download	PDC, Text (Time/Date)	
Picture Improvement System:	Advanced Studio Picture Control, SMART Picture, Digital Noise Reduction, Digital Time Base Corrector	Not applicable (Digital Image)
Additional Playback Standard	NTSC	no
Audio Recording System	FM Audio, Linear	MPEG1 Layer 1 or 2
Audio Recording Level		
Audio Dubbing	Automatic	
Insert	no	
TV-Related Functions	16:9 (pin 8), Direct Record	
TV-Related Control Functions	NexTV Link (pin 10)	
Remote Control RT597/101	Backlit, TV Multicode, VCR1/2	
<b>Programming</b>		
Number of Events		8/year
Programming Mode		Remote
Record Control & Transmitter Identification		PDC, VPS
Automatic Sat. Recording		SCART 2
Record Speed	Long Play (LP), Standard Play (SP)	Long Play (LS3), Standard Play (STD)
<b>Tape Deck</b>		
Number of (S-)VHS Video/D-VHS/FM Audio/Flying Erase Heads		4/2/2/0
Play:	+1, -1, Repeat	+1, Repeat
Additional Playback Features	Still, Fast Search Speed, Variable Slow Motion Speed	Still, Fast Search Speed
Index Related Functions	Next/Previous index search	
Tape Length Recognition	Automatic	
Tape Counter	Linear relative, Linear time left	
Automatic Functions at Tape End	Rewind after Play - Eject after Record	
Winding/Rewinding Time	100 sec (E180)	170 sec (DF420)
Head Cleaning Mode	Automatic	
<b>Color</b>		
Front, side panels		Silver
Cover		Gray
<b>Connectors Rear</b>		
EXT1 (AV1)	Black, Euro CVBS in/out, Y/C in/out, switchable Y/C out or CVBS out	
EXT2 (AV2)	Black, Euro CVBS in/out, Euro Decoder	
EXT3 (S-IN)	S-VHS in	
EXT4 (S-OUT)	S-VHS out	
Audio Conn. Rear	Cinch stereo in/out	
Terrestrial Antenna In & Out	75 Ohms (IECtype)	
Mains Connector	Standard (IECtype)	
Synchro edit	Mini-Jack 3,5mm	
LANC edit	Yes	no
I.LINK (DV camcorder)	no	IEEE1394 in
<b>Connectors Front</b>		
Audio/Video Conn. Front	Cinch CVBS in, Cinch stereo in, S-VHS in	
<b>General</b>		
Voltage	220-240V	
Frequency	50Hz-60Hz	
Backup Presets & Timer Events	1yr	
Backup Clock & Calendar	60 minutes	
Power Cons. in Play / Std-By	50W / 9W	
Equipment Supplied	Aerial cable, Mains cord, Scart cable, S-VHS cable, Remote Control, Batteries	
Weight incl./excl. package in kg	12 Kg/10 Kg	
Set Size - W x D x H (mm)	476 x 366 x 145	
Packaging - W x D x H (mm)	560 x 500 x 261	
<b>Comparison</b>	<b>S-VHS</b>	<b>D-VHS</b>
Chroma bandwidth	0.5 MHz	3.375 MHz
Resolution	400 lines	540 lines
S/N sound	80 dB	110 dB
Maximum Recoding Time in Standard/Long Play Mode	4 hours/8 hours (E240 tape)	7 hours/21 hours (DF420 tape)

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