

JVC®

The Perfect Experience

HM-DH40000

DIGITAL HDTV
VIDEO RECORDER

DVHS MTP NTSC

SVHS

DOLBY DIGITAL

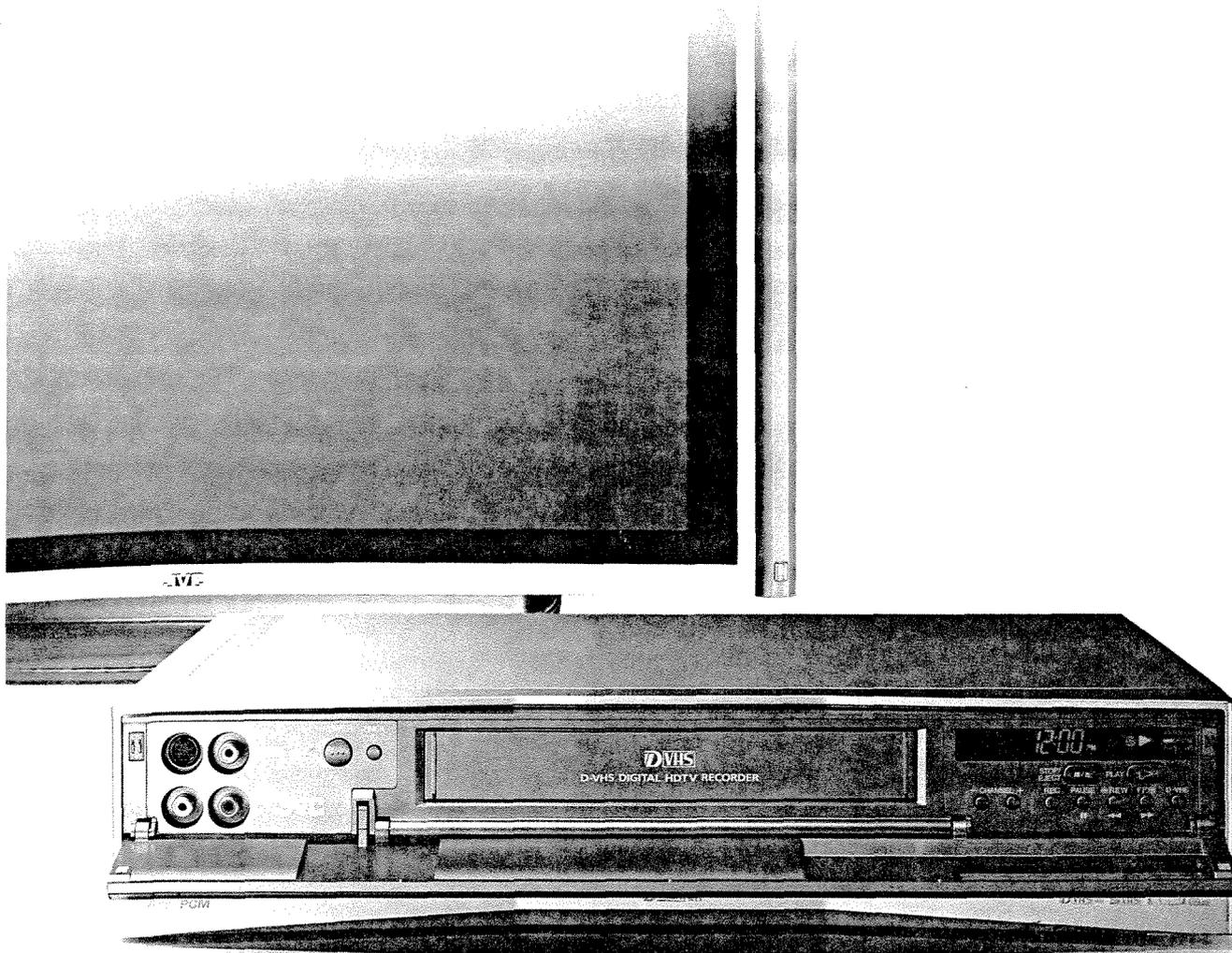
D THEATER™

www.dvhsmovie.com



HD **DVHS®**

HM-DH40000 FROM JVC.



Record HDTV

The HM-DH40000 will let you record HDTV broadcasts and maintain all their original quality.

FULL SPEC HDTV COMPATIBLE

The HM-DH40000's D-VHS recording modes offer compatibility with ATSC MPEG-2 broadcasting formats. With the 28.2 Mbps D-VHS HS mode and the overwhelming 50 Gigabyte data storage capacity of a DF-480 D-VHS cassette, the HM-DH40000 will let you record high definition sources including 1080i or 720p digital broadcasts* and maintain all of their original quality. The 14.1 Mbps STD mode can be used to record SD sources such as 480p** and 480i digital broadcasts. With the built-in MPEG-2 encoder you will also be able to make digital recordings from analog NTSC sources in the high quality HS***, STD, or extended-time LS3 or LS5 modes.

* Requires compatible set-top box with IEEE 1394 connection.

** Depending on the bit rate, HS mode may be applicable.

*** Recorded signal will be 480i.

Correlation Between Broadcast Type and D-VHS Recording Mode

Recording Source	Recording Mode	
Digital	1080i	HS mode (over 12.2 Mbps for 0.5 msec. auto transition to HS mode)
	720p*	
	480i	STD mode (under 9 Mbps for 10 sec. autotransition to STD mode)
	480p*	
NTSC (Analog) 480i	HS / STD / LS3/ LS5 modes (Analog→MPEG2 conversion)	

* Depending on the bit rate, HS mode may be required for some 480p sources, and STD mode may suffice for some low bit rate HDTV sources.

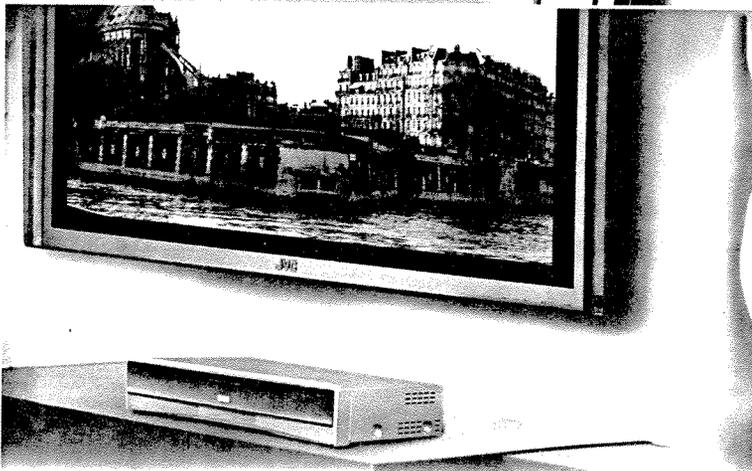


HM-DH40000 FROM JVC. PERFORMANCE DEFINED.

You walk into a room, and immediately notice the classy curves and contemporary edge of its design. Something out of the future? In a way, yes. Something out of the ordinary? Definitely. It beckons you to take a seat. Now, with remote in hand, you take that crucial step. Power on.

Let the show begin with D-VHS, the format that enables true high-definition digital recording and playback, and D-THEATER, the new standard that allows Hollywood movies to be released with all the quality of film intact. All the dynamism, and down to every detail. All the action, as well as every emotion. It all comes through, as the producers intended for the big screen.

The HM-DH40000 from JVC redefines home theater performance. Its playback picture is ready for display on the newest HDTV and hi-res projector systems. It enables full enjoyment of D-THEATER software, now and in the future. But it also keeps you in touch with the analog video library you've built over the years because, as they say, the show must go on. So go beyond video. Experience the extreme performance of the HM-DH40000 from JVC. HDVideo for the age of HDTV.



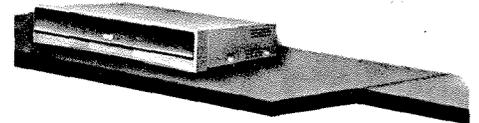
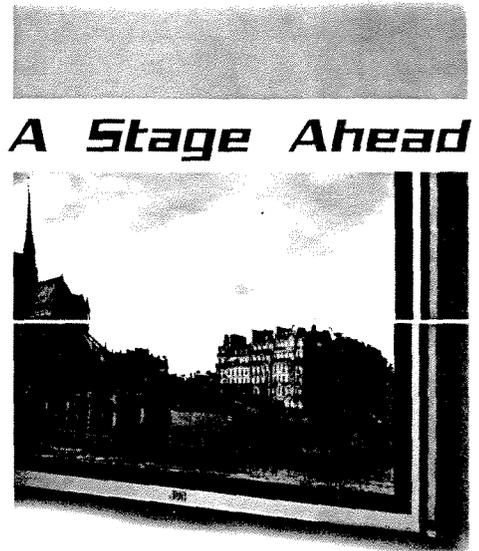
Digital Performance That's A Stage Ahead

D-VHS Format

D-VHS is a totally digital recording format developed by JVC. Use it to record from High Definition (HD) MPEG-2 digital sources at 28.2 Mbps HS mode and maintain all the quality of the original. The 50 Gigabyte high capacity of a DF-480 D-VHS tape will let you fit an entire HD feature film broadcast on a single cassette with room to spare. You can also record a Standard Definition (SD) digital broadcast as-is at 14.1 Mbps STD mode, or convert any analog NTSC source to digital and record it at 4.7 Mbps LS3 mode to store up to 24 hours, or at 2.8 Mbps LS5 mode to store up to 40 hours of programming on a single DF-480 cassette. D-VHS. It's the new digital content archiving solution that takes advantage of the high-capacity characteristics unique to tape.

HM-DH40000 D-VHS Recording Modes

Mode	Data rate	Max. recording time*			When to use
		DF-300	DF-420	DF-480	
HS	28.2 Mbps	2.5 hrs.	3.5 hrs.	4 hrs.	For direct recording of HD digital broadcasts, with HD quality results. Highest quality for recording of any digital or analog source.
STD	14.1 Mbps	5 hrs.	7 hrs.	8 hrs.	To make a digital recording from digital or analog sources, with SD quality results.
LS3	4.7 Mbps	15 hrs.	21 hrs.	24 hrs.	To make a large number of recordings on a single cassette from analog NTSC sources.
LS5	2.8 Mbps	25 hrs.	35 hrs.	40 hrs.	



TV images simulated.



MPEG-2 CODEC for Digital Recording of Various Sources

The built-in Standard Definition MPEG-2 encoder/decoder or CODEC function enables D-VHS digital recording from NTSC analog sources as well as DV→MPEG-2 conversion recording from a connected MiniDV video camera. Also, when dubbing from an external analog video source such as a camcorder or VCR, JVC's Frame Synchronizer/TBC eliminates jitter from the input signal to produce high quality dubs that can actually appear to surpass the quality of the original.

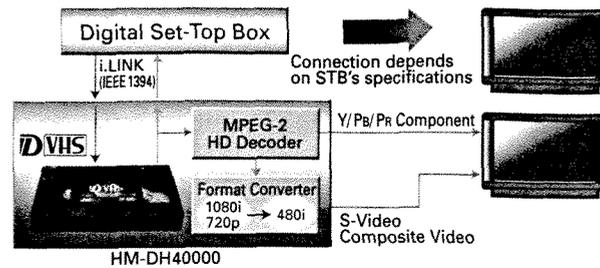
Linear PCM Digital Audio

In the D-VHS HS and STD modes you can dub HD or SD from a connected* MiniDV camcorder and maintain its linear PCM digital soundtrack with original quality. In addition to lossless PCM-to-PCM, the HM-DH40000's 48kHz 16-bit linear PCM recording capability also lets you record high quality soundtracks from analog sources in a non-compressed digital format to accompany the resulting digital image. The PCM Audio data rate is 1.6 Mbps for both the 28.2 Mbps HS and 14.1 Mbps STD modes.

*via i.LINK (IEEE 1394) connection

HDTV Compatible MPEG-2 HD Decoder

The HM-DH40000 is equipped with a built-in MPEG-2 HD Decoder which converts recorded MPEG-2 signals into Component output signals (Y/Pb/Pr). This will allow you to hook-up directly to an HDTV or projector equipped with Component input terminals and easily enjoy hi-res images.



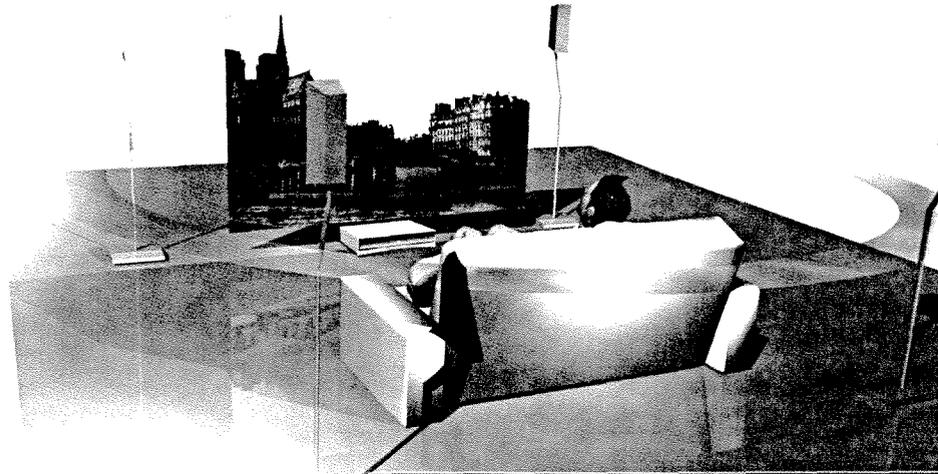
5.1ch Dolby Digital and 2ch PCM Audio Output

D-THEATER HD software delivers powerfully realistic home theater sound because D-VHS's audio data transfer rate accommodates 576 kbps, close to the full-spec transfer rate of 5.1ch Dolby Digital.

So while other formats may offer 5.1ch surround, only D-VHS can bring out all of the subtle nuances and dynamic impact of those 5.1ch movie soundtracks.

Downmixed 2ch Linear PCM output is also supported in case your audio system doesn't have a Dolby Digital decoder.

Either way, the optical output makes it easy to connect and enjoy superior audio performance on your theater system.



Ultimate Home Theater Centerpiece

HDTV Component Output

Component output (Y/Pb/Pr) terminals let you connect to an HDTV or projector equipped with Component input, so you can enjoy the full quality of D-THEATER software as signals are decoded by the built-in MPEG-2 HD Decoder.

Multi-Format Compatible

Where versatility is concerned, the HM-DH40000 knows no peer. With four D-VHS recording modes, the HM-DH40000 covers a wide range of digital recording needs. And to make sure you can continue enjoying your collection of analog VHS tapes, this deck also supports Super VHS, Super VHS ET and VHS recording and playback. Protect your home entertainment assets with the HM-DH40000, and enjoy the past, present and future of video.

Versatile D-VHS Viewing Features

The HM-DH40000 supports convenient tape access functions like Chapter Search* to take you directly to a particular segment. Closed Caption* support lets you display subtitles in multiple languages*, and you can even listen to the dialog in the language of your choice.*

*Possible if data exists on the D-THEATER software being played back.



D-VHS DIGITAL HDTV RECORDER

A Host of High-Value Functions

i.LINK Terminal

This IEEE1394 compliant digital interface allows the connection of a digital set-top box* or HD and SD camcorder for the transfer and recording of HD and SD digital signals.

*For compatible brands, please consult an authorized JVC dealer.

DV and MPEG Input

Copy-free Digital-to-Digital dubbing is easy with direct digital connection of standard definition 480i, converting DV to MPEG-2 and receiving Transport Stream HD MPEG-2 from camcorders or PCs via the IEEE 1394 i.LINK connection.

Super Pre-encode Processor with Frame Synchronizer, TBC and 3-Dimensional Digital Noise Reduction for Pristine Analog-to-Digital Dubs

When dubbing, the high quality digital dubs can actually appear to surpass the original's quality. There may be defects in the signals from external analog sources such as camcorders or VCRs, but the Super Pre-encode Processor prepares the purest possible analog input signal for digital MPEG-Encoding — essential since noise is magnified in the encoding process. It applies Frame Synchronization to correct frame crossover jitter and Time Base Correction to precisely stabilize the video signal to conform accurately to the NTSC signal standard. Its Motion Compensating Noise Reduction is a new 3-Dimensional Digital Noise Reduction that cleans both still and moving parts of video pictures of noise without after-images and ghosting.

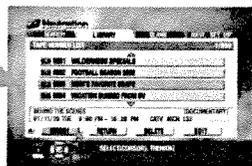
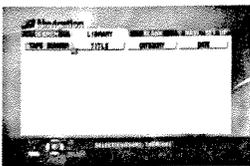
Playback Picture Format Converter

You can choose the output format that matches your current home theater environment, as well as any system upgrades you make later on.

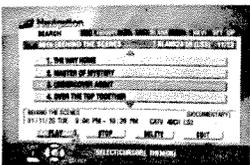
Recorded Format	Selectable Playback Output
1080i	1080i / 480i
720p	1080i / 720p / 480i
480p	480p / 480i
480i	480i

Video Navigation

Finding what you want to watch from up to 1000 titles is easy, with Library and Search functions, plus more.



Library function displays a list of recorded programs sorted by Tape number, Title, Category or Date.



Search function offers an all-in-one interface from which you can Play, Stop, Delete or Edit programs on the tape.

Blank function lets you efficiently manage the portions of tape that are available for recording.

Super VHS with DigiPure Playback Technology

Get the highest levels of picture quality even in analog. Super VHS high-band recording, which delivers over 400 lines of horizontal resolution, is supported by JVC's DigiPure Technology:

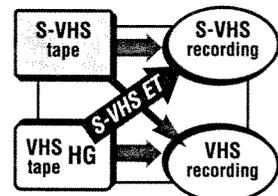
- Frame Synchronizer/TBC helps stabilize the picture of old tapes and rental cassettes.
- Precision 3-D Color Circuit provides clear color separation and sharpens image edges.
- Precise Digital 3-D YNR/CNR improves the S/N ratio by approximately 3dB.
- Digital R3 Picture System applies edge correction to the luminance signal to enhance detail.

And providing a solid foundation for DigiPure is a Digital 3-Dimensional Circuit with 6MB Frame Memory.

Super VHS ET (Expansion Technology)

Enjoy high-resolution recording on VHS cassettes.

(Depending on tape quality, some noise may appear in EP mode, so high grade tapes are recommended.)



Multi-Brand TV/Cable/DBS Compatible Remote with Glow Keys

Lets you control your VCR, TV*, cable box* or satellite receiver (DIRECTV and DISH Network™) using a single hand unit, even in darkened rooms thanks to its glow-in-the-dark buttons.

* For compatible brands please consult your JVC dealer.



And Much More...

- **MTS Decoder for SAP Programs** allows viewing/recording of stereo and bilingual broadcasts.
- **Hi-Fi VHS Stereo** assures high quality sound even in analog.
- **VCR Plus+ with Provided Cable Box Controller*** so you can enjoy simple timer programming even with cable shows.
- **Express Programming** for easy manual timer setting just by following a single row of buttons on the remote.
- **Plug & Play** for automatic tuner and clock set-up, simply by hooking up the antenna and plugging in the power.
- **Auto Daylight Saving Time** — no need to set the clock forward or back twice a year.
- **Skip Search and Shuttle Search x11 SP**
- **Fast 100 Sec. FF/REW for T-120**
- **1-Year/24-Event Programmable Timer**
- **Rec Link** enables the VCR to automatically turn on and record a program when a connected satellite receiver or cable box turns on.**
- **Active Video Calibration** automatically calibrates tape quality and measures video head condition to optimize long-term picture performance. (S-VHS/VHS)
- **Picture Control** lets you choose from 4 different settings to best match the material you are viewing (Auto, Edit, Soft, Sharp). (S-VHS/VHS)
- **Auto SP—EP Timer Recording** automatically switches from SP to EP to fit the entire program on the tape. (S-VHS/VHS)
- **Auto Head Cleaner**
- **Repeat Playback (up to 50 times)*****
- **Remote Pause**
- **J-Terminal (RS-232 compatible J-LIP)** for easy integration into computer-controlled video editing system. More information available at www.jvc.com.
- **AV Compu Link** for easy integration into JVC home theater system.

*For compatible brands please consult your JVC dealer.

External unit must be equipped with timer. *Not possible in LS3/LS5 modes.