JVC®

The Perfect Experience

DIGITAL VIDEO STORAGE 2005

http://www.jvc.com

DVD Recorders

DVD Players

D-VHS Recorders

Video Decks

Media

Total Recording Solutions

JVC's expanded lineup of multi-format DVD recorders includes several combo units geared to an array of recording needs. Our extensive background in video technologies has enabled advanced features for astounding picture quality, superior editing and dubbing functionality, and user friendly operation.

Compatibility with Various Disc Formats

JVC recorders give you the options of recording in **DVD-RAM, DVD-RW** or **DVD-R** format, letting you choose the most suitable one depending on the purpose or contents. As for playback, the lineup is compatible with a vast majority of audio and video disc formats: **DVD-Video, DVD-RAM, DVD-RW/+RW, DVD-R/+R, SVCD, VCD, CD** and **CD-R/RW**. You can also enjoy **MP3** music files or **JPEG*** files burned on a CD-R or CD-RW. The Slide Show function enhances the fun of viewing JPEG digital still images.

* The baseline JPEG format is supported.

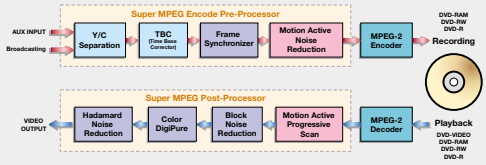
Advanced Technologies for Recording and Playback

Recording and Playback Technologies for High Resolution and Less Noise

JVC DVD recorders incorporate advanced technologies for high resolution and effective noise reduction — **Super MPEG Encode Pre-Processor*** and **Super MPEG Post-Processor*** — which improve the quality of pictures in recording and playback; respectively.

1) Super MPEG Encode Pre-Processor

The **Super MPEG Encode Pre-Processor** ensures superior quality of images when recording from analog sources, like the tuner or a connected video source, conducting effective noise reduction before MPEG-2 encoding. The 3-step process starts with the **Time Base Corrector (TBC)** which eliminates jitter contained in analog input signals. Then, the **Frame Synchronizer** corrects frame crossover jitter and processes any deviant frames. These two processes ensure that the video signals conform to the NTSC standard. Finally, the **Motion Active Noise Reduction** system reduces the noise of moving pictures by precisely detecting the motion and applying the algorithm between the moving pixels. This selective noise reduction ensures that encoded images — especially moving subjects that are likely to draw the viewer's attention — are free of edge smear and image lag.

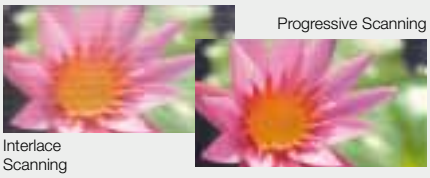


2) Super MPEG Post-Processor

The **Block Noise Reduction** circuit reduces annoying "block noise" caused by MPEG-2 compression. The **Color DigiPure** conducts 3D noise reduction and enhances the color and details to provide sharp yet natural pictures, while the **Hadamard Noise Reduction** system eliminates "mosquito noise" from any DVD you play.

JVC's DVD recorders are able to output NTSC Progressive (480p) signals from any DVD being played. **Motion Active Progressive Scan Output**** generates a progressive scan signal from interlace sources, such as TV programs recorded on DVD. Digital Direct Progressive Scan Output outputs the original progressive data — a movie on prerecorded DVD, for example — without converting to interlace data, so there is no quality loss and the picture remains true to the original film source.

* Available functions may differ among products.
** The DVD+VHS Recorder Combos generate progressive scan signals from VHS sources, too.



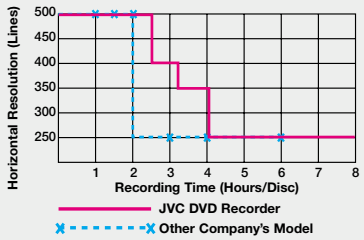
Longer Recordings with High Resolution Pictures (DVD-RAM/DVD-RW VR Format)

JVC's DVD recorders boast superior quality of recorded pictures, particularly with long recordings, delivering the best quality possible for each recording mode.

With conventional DVD recorders, the quality of recorded images can become degraded with longer recordings, because of the trade-off between reducing noise and maintaining resolution. It's not true with the JVC recorders. For example, in the 3-hour recording mode (FR180), the JVC DVD recorders reduce MPEG noise while maintaining high horizontal resolution of 400 lines, compared to conventional technology that can reduce resolution to about 250 lines.

Maximum quality is available with the XP mode's approximately 500 lines of resolution. To assure recordings that fit precisely on the disc while offering the best possible quality.

Comparison of Horizontal Resolution



User-Friendly Features

Library Database DVD Navigation and Animated Thumbnail (DVD-RAM/DVD-RW VR Format)

JVC DVD recorders can memorize information of up to 2,000 programs, including their titles, disc numbers, dates of recording and so on, and when you choose one, the player tells you which disc to load. Once loaded, choosing the right program on the disc is as easy as clicking on a thumbnail image. It even animates (the image moves!), complete with sound, for sure selection.

* The number of progarams will differ among products.

On-Disc Timer Programming* (DVD-RAM/DVD-RW VR Format)

With JVC DVD recorders, you can pre-program desired timer recording content on the disc, as well as use conventional timer programming on the unit. This means you can complete timer setting just by loading a programmed disc into the DVD recorder. It's a one-step easy way to record your favorite TV series on the same disc.

* Availablity varies by product.

Live Memory (DVD-RAM)

DVD-RAM's superior rewriting capability allows Simultaneous Recording & Playback like a Hard Disk Drive. You can play scenes you missed without stopping current recording or waiting until the end. Since the scene being recorded in real-time can be displayed in a window using the Live Check function, you'll know exactly when to stop recording.

Hard Disk Drive — Outstanding Capacity, Speed, and Flexibility

JVC offers an expanded lineup of DVD recorders with built-in Hard Disk Drives. These advanced recorders utilize large storage capacity, high-speed signal processing, and flexibility. In addition to the high-quality pictures and sound ensured by lossless, digital-to-digital transmission (HDD→DVD) signals, the HDD/DVD combination delivers a number of exclusive advantages.

Large Capacity for Mass Storage

The HDD of the DR-DX7 boasts a huge storage capacity of 250GB, enabling up to 473 hours of recording*. You can store multiple TV programs or other video content. Now easily transfer your desired programs to DVD discs for archiving. Play these newly created DVD's on various compatible players. It's also convenient when you have to be away for an extended period of time, but you don't want to miss any of your favorite TV programs.

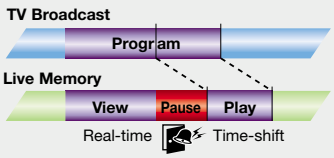
Moreover, JVC's Hard Disk Drive automatically activates "Temporary Loop Recording" when the unit is turned on. This function lets you "go back" and watch or record a program you missed without loading a disc or setting the timer, because it records TV programs up to a specified number of minutes/hours in a continuous loop.

* HDD capacity will differ among products.

Live Memory

While you're watching a broadcast in real-time, Live Memory is saving the program on Hard Disk temporarily so a ringing door bell or other interruptions won't disrupt your TV viewing enjoyment. You can:

- **Pause Live TV**, then resume watching where you left off, with nothing missed.
- **One-Touch Replay** to watch a scene again (7 seconds' worth).
- **Quick Skip** to jump ahead 30 seconds per push.
- **Time Skip** to jump ahead or back to the next or previous quarter hour, half hour, or top of the hour in clock time.
- **Live Slow and Search** to watch live TV at ±1/2, ±1/4, or ±1/16 speed.



Simultaneous Recording/Playback

You can watch a program recorded on the HDD, while recording another on HDD or DVD. You can also watch a DVD, while recording another on Hard Disk.

RetroActive Recording

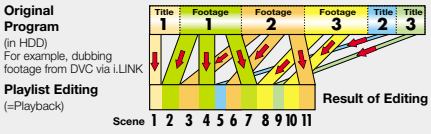
If you like the TV show you're watching and want to save it for reviewing, Live Memory lets you "go back" and start recording it from the beginning or from any previous points during the show*.

* Program (channel) currently being viewed.

The Exclusive Benefits of Combined DVD Recorder + HDD

Playlist-Based Editing

The Hard Disk's flexibility allows you to edit scenes of recorded programs as you like. Record a program on the HDD, and you can change the order of scenes, delete unwanted parts of a recording, and insert scenes from other titles. A window shows the scene, and the Preview and Retry functions ensure you won't make a mistake. Then, at the touch of a button, they're dubbed over to a DVD. Up to 99 Playlists can be stored, allowing you to set maximum 99 scenes.



Freezeless Editing* for DVD Disc (HDD → DVD)

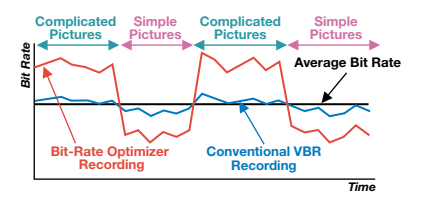
JVC's DVD/HDD combined recorder units incorporate advanced technologies for precise editing — with minimum unwanted scenes left in, and without eliminating scenes you want to keep. The technologies also solve the problem of image freeze for DVD-dubbed footage, which is often seen in pictures edited with conventional recorders.

* Freezing may remain with materials dubbed at high speed to DVD.

Bit-Rate Optimizer (Intelligent Dual-Pass Encode Dubbing System) (HDD → DVD)

DVDs recorded at higher bit rates offer superior quality, but the limited capacity of a disc may mean limited recording times, making it insufficient for long programs. Most DVD recorders accommodate this by reducing the overall bit rate to fit the entire program onto a disc.

JVC's innovative Bit-Rate Optimizer, based on the Intelligent Dual-Pass Encode Dubbing System, solves the problem thus offers the best possible dubbing and archiving solution. This superior system analyzes the content as it is recorded on the Hard Disk and then intelligently optimizes the bit rates — low for simple scenes, high for complicated scenes — to provide the best picture quality while calculating disc capacity, similar to what professional studio engineers do to author their content for DVD movies.



High-Speed Dubbing (HDD → DVD)

Dubbing video contents from Hard Disk Drive to DVD can be completed at an incredibly high speed — up to 64 times the normal speed*. A one-hour program can be copied to a DVD disc in less than 1 minute.

* Possible when an FR480-mode-recorded program is copied to a DVD-R disc compatible with 8x recording. 32x max. with some models.

Relief Recording

Suppose you've set the recording timer but forgotten to load a disc, or you've loaded a disc but its remaining blank space is insufficient for the program you intend to record. JVC recorders automatically detect the absence of a disc or a lack of space, and record the program on HDD instead — from beginning to end.

i.LINK Connection

JVC DVD recorders come with i.LINK terminal, which enables digital connection with other equipment including MiniDV video cameras. The input DV signal is directly converted to MPEG-2 format — a digital-to-digital conversion which ensures high-quality images with less noise, less loss, and highly accurate details. This connection also lets you control the DV unit through the i.LINK cable, using the DVD recorder's remote so you won't have to bother with using two sets of controls.

DR-DX7S

HDD/DVD/MiniDV Video Recorder Combo

HDD+DVD+MiniDV Triple Recorder with 250GB HDD, featuring DV-Format Direct Recording, TV Guide On Screen, 6-Way Dubbing, Bit-Rate Optimizer, High-Speed Dubbing (Max. 64x), and Super MPEG Encode Pre- & Post-Processors

- Playable Formats: MiniDV, HDD, DVD-Video, DVD-RAM, DVD-RW/+RW, DVD-R/+R, CD, SVCD, VCD, CD-R/RW, WMA/MP3/JPEG Digital Still (CD-R/RW)
- Recordable Formats: MiniDV, HDD, DVD-RAM, DVD-RW (VR and Video Formats), DVD-R
- 250GB HDD (Up to 473 Hrs. Recording)
- Progressive Scan Output
- i.LINK Connection (DV Input/Output)
- TV Guide On Screen (HDD/DVD)
- Dolby Digital/DTS/MPEG Digital Output (HDD/DVD)
- Component Video Output

High-Quality Picture
- DV-Format Direct Recording (HDD/MiniDV)
- Bit-Rate Optimizer (Intelligent Dual-Pass Encode Dubbing System) (HDD→DVD)
- Motion Active Progressive Scan Output (for Video Source)
- Digital Direct Progressive Scan Output (for Film Source)
- Super MPEG Encode Pre-Processor: Time Base Corrector, Frame Synchronizer and Motion Active Noise Reduction
- Super MPEG Post-Processor: Block Noise Reduction Circuit, Color DigiPure and Hadamard Noise Reduction System

Recording/Viewing
- 16-Hour DVD Recording (on Double-Sided Disc)
- Live Memory (HDD/DVD-RAM)
- Simultaneous Recording and Playback (HDD/DVD-RAM)
- Relief Recording (HDD)
- Linear PCM Audio Recording (XP Mode Only)
- 1.5x Quick Playback with Sound (HDD)

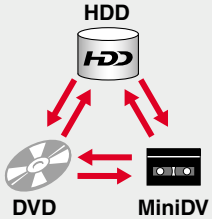
Editing/Dubbing
- 6-Way Dubbing
- DV-Format Direct Editing (HDD)
- Freezeless Editing for DVD Disc (HDD→DVD)
- High-Speed Dubbing, Max. 64x (HDD→DVD)
- Just Dubbing (HDD→DVD)
- Playlist-Based Editing (HDD/DVD)
- Easy Program Dubbing (HDD/DVD)

User-Friendly
- Library Database DVD Navigation
- Animated Thumbnail on HDD/DVD Navigation (DVD-RAM/DVD-RW VR Format)
- High-Resolution GUI (English/French/Spanish)
- DVD-R Menu Screen with Thumbnail (18 Designs)

With the door on the front panel fully opened

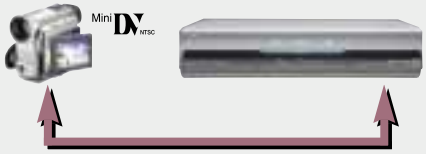
A Triple Combo Unit that Integrates MiniDV, HDD, and DVD Video Recorders

The DR-DX7 is a triple combo unit — a large-capacity 250GB HDD, which stores up to 473 hours of programs, and a multi-format DVD recorder are innovatively combined with a MiniDV recorder. Edit and dub footage from your MiniDV video camera in native DV format. The unit allows six-way dubbing — between any two of the three recorders.



Direct DV Format Recording (HDD/MiniDV) and Editing (HDD)

The DR-DX7 lets you transfer footage from MiniDV over to hard disk in original DV format. Edit the scenes as you like on hard disk and dub the result back to MiniDV while retaining high resolution. This function is also available when the unit is connected with a MiniDV video camera via i.LINK terminal.



i.LINK for digital DV-to-DV connection

DR-MX1S

HDD/DVD/VHS Video Recorder Combo

HDD+DVD+VHS Triple Recorder with 80GB HDD and Twin Tuner, featuring 6-Way Dubbing, Bit-Rate Optimizer, High-Speed Dubbing (Max. 32x), and Super MPEG Encode Pre- & Post-Processors

- Playable Formats: HDD, VHS Hi-Fi, DVD-Video, DVD-RAM, DVD-RW, DVD-R, CD, SVCD, VCD, CD-R/RW, WMA/MP3/JPEG Digital Still (CD-R/RW)
- Recordable Formats: HDD, VHS Hi-Fi, DVD-RAM, DVD-RW (VR and Video Formats), DVD-R
- 80GB HDD (Up to 147 Hrs. Recording)
- Twin-Tuner Built-in
- Progressive Scan Output
- i.LINK Connection (DV Input)
- VCR Plus+C3 (HDD/DVD), VCR Plus+ (VHS)
- SQPB (VHS)
- Dolby Digital/DTS/MPEG Digital Output (HDD/DVD)
- Component Video Output

High-Quality Picture
- Bit-Rate Optimizer (Intelligent Dual-Pass Encode Dubbing System) (HDD→DVD)
- Motion Active Progressive Scan Output (for Video Source)
- Digital Direct Progressive Scan Output (for Film Source)
- Super MPEG Encode Pre-Processor: Time Base Corrector, Frame Synchronizer and Motion Active Noise Reduction
- Super MPEG Post-Processor: Block Noise Reduction Circuit, Color DigiPure and Hadamard Noise Reduction System

Recording/Viewing
- 16-Hour DVD Recording (on Double-Sided Disc)
- Live Memory (HDD/DVD-RAM)
- Simultaneous Recording and Playback (HDD/DVD-RAM)
- Relief Recording (HDD)
- Linear PCM Audio Recording (XP Mode Only)
- 1.5x Quick Playback with Sound (HDD)

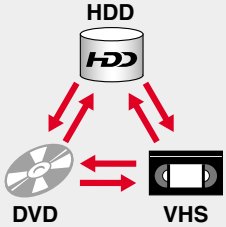
Editing/Dubbing
- 6-Way Dubbing
- Freezeless Editing for DVD Disc (HDD→DVD)
- High-Speed Dubbing, Max. 32x (HDD→DVD)
- Auto Thumbnail Creation Dubbing (VHS→HDD/DVD)
- Auto Blank-Cut Dubbing (VCR→HDD/DVD)
- Just Dubbing (HDD→DVD)
- Playlist-Based Editing (HDD/DVD)
- Easy Program Dubbing (HDD/DVD)

User-Friendly
- Library Database DVD Navigation
- Animated Thumbnail on HDD/DVD Navigation (DVD-RAM/DVD-RW VR Format)
- High-Resolution GUI (English/French/Spanish)
- DVD-R Menu Screen with Thumbnail (18 Designs)

With the door on the front panel fully opened

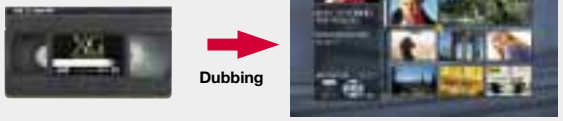
6-Way Dubbing

The three combined recorders provide six dubbing options. You can dub video content between any two of HDD, DVD, and VHS.



Auto Thumbnail Creation Dubbing (VHS → HDD/DVD)

When dubbing from VHS to HDD/DVD, the DR-MX1 automatically creates thumbnails by detecting the tape-encoded signals which indicate program changes.
This allows easy access to each dubbed program.



DR-MH300S

Hard Disk Drive & DVD Video Recorder Combo

HDD+DVD Recorder with 160GB HDD and HDMI Digital Output (1080i/720p Up-Conversion), featuring TV Guide On Screen, Bit-Rate Optimizer, High-Speed Dubbing (Max. 64x), and Super MPEG Encode Pre- & Post-Processors

- Playable Formats: HDD, DVD-Video, DVD-RAM, DVD-RW/+RW, DVD-R/+R, CD, SVCD, VCD, CD-R/RW, MP3/JPEG Digital Still (CD-R/RW)
- Recordable Formats: HDD, DVD-RAM, DVD-RW (VR and Video Formats), DVD-R
- 160GB HDD (Up to 300 Hrs. Recording)
- Progressive Scan Output
- HDMI Digital Output (1080i/720p Up-Conversion)
- i.LINK Connection (DV Input)
- TV Guide On Screen
- Dolby Digital/DTS/MPEG Digital Output
- Component Video Output

High-Quality Picture
- Bit-Rate Optimizer (Intelligent Dual Pass Encode Dubbing System) (HDD→DVD)
- Motion Active Progressive Scan Output (for Video Source)
- Digital Direct Progressive Scan Output (for Film Source)
- Super MPEG Encode Pre-Processor: Time Base Corrector, Frame Synchronizer and Motion Active Noise Reduction
- Super MPEG Post-Processor: Block Noise Reduction Circuit, Color DigiPure and Hadamard Noise Reduction System

Recording/Viewing
- 16-Hour DVD Recording (on Double-Sided Disc)
- Live Memory (HDD/DVD-RAM)
- Simultaneous Recording and Playback (HDD/DVD-RAM)
- Relief Recording (HDD)
- Linear PCM Audio Recording (XP Mode Only)
- 1.5x Quick Playback with Sound (HDD)

Editing/Dubbing
- Freezeless Editing for DVD Disc (HDD→DVD)
- High-Speed Dubbing, Max. 64x (HDD→DVD)
- Just Dubbing (HDD→DVD)
- Playlist-Based Editing
- Easy Program Dubbing

User-Friendly
- Library Database DVD Navigation
- Animated Thumbnail on HDD/DVD Navigation (DVD-RAM/DVD-RW VR Format)
- Help Function and High-Resolution GUI (English/French/Spanish)
- DVD-R Menu Screen with Thumbnail (18 Designs)

HDMI Digital Output

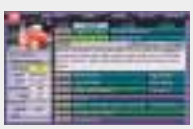
The DR-MH300 comes with HDMI (High-Definition Multimedia Interface), a next-generation digital interface. Advantages include:

1) A single cable connection for transmitting uncompressed video *and* audio signals.
2) Digital-to-digital transmission for lossless, high-quality pictures.
3) Video signal conversion from 480i (interlaced)/480p (progressive) to 720p or 1080i.
4) HDCP (High-bandwidth Digital Content Protection) is supported.

		Analog	Digital	
		Component	DVI	HDMI
Cable	Video	3	1	1
	Audio	2	2	
PC Compatibility		-	Yes	Yes
Content Protection		-	Yes	Yes
Signal Format		YPbPr	RGB	YPbPr/RGB
Application		Consumer AV	PC	Consumer AV

TVGOS '04 Function

The DR-MH300 permits easy recording timer setup with the TVGOS (TV Guide On Screen) '04 function. The unit automatically receives and displays an electronic TV program guide, which shows titles and program information for analog broadcasts to be aired in the coming seven days. Setting the recording timer is as easy as clicking on the desired program — no need for guide pages in newspapers or magazines. A brief description of a selected program is displayed for easy confirmation.



- **Category Search/Keyword Search**: Picking your favorite category or entering a keyword will present a list of corresponding programs by time and date. You can pick from categories such as MOVIES, SPORTS, CHILDREN'S or others, or your favorite actor, for example.
- You can **confirm the timer recording information** before completing the timer setting.
- Automatically, **titles and categories of selected programs are recorded** and displayed with Animated Thumbnails to aid recognition.

DR-MV5S

DVD Video Recorder & VHS Hi-Fi Stereo Video Recorder Combo

DVD+VHS Recorder with One-Touch Expert Dubbing (Auto Recording Mode Optimizer) and DVD & VHS Progressive Scan

- Playable Formats: VHS Hi-Fi, DVD-Video, DVD-RAM, DVD-RW/+RW, DVD-R/+R, CD, SVCD, VCD, CD-R/RW, MP3/JPEG Digital Still (CD-R/RW)
- Recordable Formats: VHS Hi-Fi, DVD-RAM, DVD-RW (VR and Video Formats), DVD-R
- Progressive Scan Output
- i.LINK Connection (DV Input)
- VCR Plus+
- SQPB
- Dolby Digital/DTS/MPEG Digital Output (DVD)
- Component Video Output

- Motion Active Progressive Scan Output (for Video Source)
- One-Touch Expert Dubbing (VHS→DVD)
- Auto Blank-Cut Dubbing (VHS→DVD)
- Auto Thumbnail Creation Dubbing (VHS→DVD)
- Auto Recording Mode Optimizer (VHS→DVD)
- Digital Direct Progressive Scan Output (for Film Source)
- Frame Synchronizer
- Motion Active Noise Reduction System
- 16-Hour DVD Recording (on Double-Sided Disc)

- Library Database DVD Navigation
- DVD Navigation with Animated Thumbnail (DVD-RAM/DVD-RW VR Format)
- On-Disc Timer Programming (DVD-RAM/DVD-RW VR Format)
- Live Memory (Simultaneous Recording & Playback) (DVD-RAM)
- Linear PCM Audio Recording (XP Mode Only)
- High-Resolution GUI (English/French/Spanish)

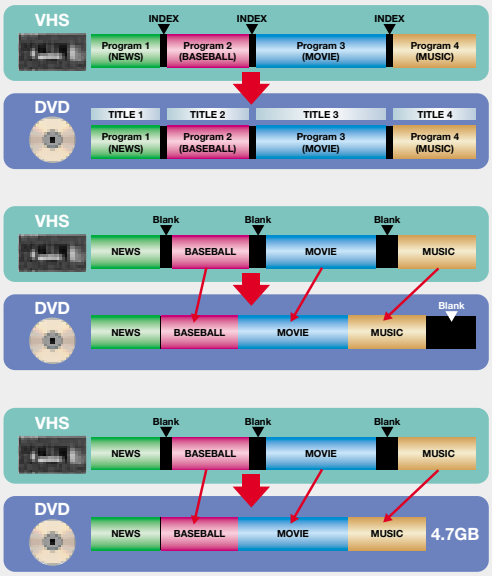
One-Touch Expert Dubbing (VHS→DVD)

The DR-MV5 comes with "One-Touch Expert Dubbing" button. Simply press the button, and the unit starts VHS-to-DVD dubbing with the following advanced functions:

1) Auto Thumbnail Creation Dubbing
The JVC recorder automatically creates thumbnails by detecting the tape-encoded signals that indicate program changes. This allows easy access to each dubbed program.

2) Auto Blank-Cut Dubbing
The unit skips any blank space on the tape. This results in DVD discs free of the unwanted blank spaces typically seen between VHS-recorded programs.

3) Auto Recording Mode Optimizer
Press and hold the "One-Touch Expert Button" for 2 seconds, and the unit automatically selects the optimum bit rate to ensure the best picture quality possible while precisely fitting the whole content to a 4.7GB disc. Dubbed pictures are free of unwanted blank space.



DR-M100S
DVD-RAM/-RW/-R Video Recorder

DVD-RAM/-RW/-R Recorder with Versatile Compatible Formats, Progressive Scan, Animated Thumbnail Navigation, and Live Memory

- Playable Formats: DVD-Video, DVD-RAM, DVD-RW, DVD-R, CD, SVCD, VCD, CD-R/RW, MP3/JPEG Digital Still (CD-R/RW)
- Recordable Formats: DVD-RAM, DVD-RW (VR and Video Formats), DVD-R
- Progressive Scan Output
- i.LINK Connection (DV Input)
- VCR Plus+
- Dolby Digital/DTS/MPEG Digital Output
- Component Video Output

- Motion Active Progressive Scan Output (for Video Source)
- Digital Direct Progressive Scan Output (for Film Source)
- Frame Synchronizer
- Motion Active Noise Reduction System
- 16-Hour DVD Recording (on Double-Sided Disc)
- Library Database DVD Navigation
- DVD Navigation with Animated Thumbnail (DVD-RAM/DVD-RW VR Format)
- On-Disc Timer Programming (DVD-RAM/DVD-RW VR Format)

- Live Memory (Simultaneous Recording & Playback) (DVD-RAM)
- One-Touch Replay, Quick Skip, Live Check
- Linear PCM Audio Recording (XP Mode Only)
- 192kHz/24-bit Audio D/A Converter
- 10-bit/54MHz Video D/A Converter
- Auto Tuner Preset
- High-Resolution GUI (English/French/Spanish)

Library Database DVD Navigation with Animated Thumbnail (DVD-RAM/DVD-RW VR Format)

Experience

Plasma-LCD from JVC

Considering JVC's experience in home video recording, it's only natural that we have also developed a reputation as a leader in high definition flat panel television display.

A new flat panel LCD or Plasma display is equal parts performance and design. You'll marvel at the stunning picture quality provided by the high definition panels. LCD models are available with up to full 1920 x 1080 resolution, meaning they can display every pixel, or picture element, found in a full high definition signal. All new Plasma models this year are high definition as well. Most new models are powered by the next generation JVC exclusive D.I.S.T. (Digital Image Scaling Technology), which uses JVC's new 32-bit GENESSA chip.

JVC 40" LCD: LT-40X776

This single chip provides optimum scaling of any input signal to your LCD or Plasma display. The picture fits perfectly, with the highest possible resolution. Also part of D.I.S.T. are 5-Point Color Management and Dynamic Gamma Control. The new 5-Point Color Management insures perfect color, even with skin tones, while Dynamic Gamma makes sure the grayscale is correct and that detail is maintained in the darker/shadow portions of the picture. There are also a variety of other noise reduction and picture enhancement technologies. Whether your source is progressive scan DVD or true high definition, you will be impressed!

JVC provides the performance you need with the aesthetics you want. For both wall mount and traditional table top applications, you'll admire the arc shape design elements and cool blue illumination which complement your other JVC components.

Ease of operation is also paramount with JVC. The exclusive Smart Input simplifies connection to your other components, while the EZ Fill makes it simple to adjust any picture to fill the full screen, eliminating most letterbox bars if you choose.

All new JVC widescreen LCD's & Plasma's are HD ready and ATSC HD Tuners are included on our new premium 26" & 32" sizes. ATSC tuners are standard on all of our new 37", 40", 42" & 50" displays.

Point 1 - Green
Point 2 - Yellow
Point 3 - Red
Point 4 - Blue
Point 5 - Flesh

5 Point Color Management at Work

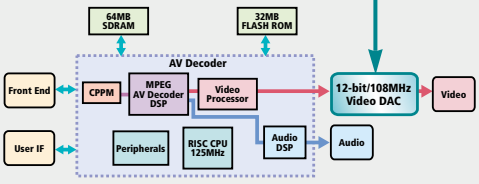
Technologies for High Resolution in Sound and Vision

NTSC Progressive Compatibility and Digital Direct Progressive Scan Output

JVC's DVD players provide smooth, sharp, high-resolution images in NTSC progressive format. Moreover, the Digital Direct Progressive Scan Output delivers the NTSC-progressive pictures without converting the original frames to the interlaced one when viewing a movie. The result is a reduction of conversion loss, which translates into natural, smooth images.

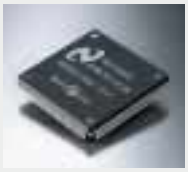
12-bit/108MHz Video Converter with "DigiPure" Technology

High resolution pictures are guaranteed by the 12-bit/108MHz video D/A converter. It's a super-high-performance converter, which enables even better picture quality than with 10-bit/54MHz DAC. With the JVC-developed LSI, it performs superior 12-bit requantization and provides 8-times oversampling (108 MHz). Moreover, the DAC also incorporates "DigiPure" technology, which enhances the picture clarity and effectively reduces "mosquito noise". The synergy of these two functions results in sharp images while maintaining the natural touch of real film.
(XV-N512S, XV-N510B)



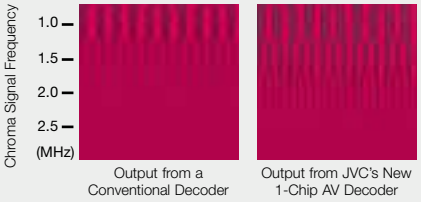
Ultra-High Performance 1-Chip AV Decoder

The sophisticated JVC-exclusive AV decoder integrates an MPEG AV decoder DSP, Video Fine Processor, 12-bit/108MHz video DAC and audio DSP. Controlled by a high-speed 125MHz CPU, the video DAC performs high 12-bit requantization and 108MHz sampling for a wide video bandwidth, producing a smooth image free of noise. Moreover, the video bandwidth is broadened for less distortion, less smear and higher resolution.
(XV-N512S, XV-N510B)



Adaptive Geometrical Chroma Mapping

Data compression application lowers chroma (color) resolution of the signal from a DVD to only one-quarter luma (luminance) resolution. This causes a lack of detail and definition in images displayed on your TV. JVC's Adaptive Geometrical Chroma Mapping fully restores the original image quality before compression. It works with component, S-video and composite signals, whether they are sourced from film or video. (XV-N512S, XV-N510B)



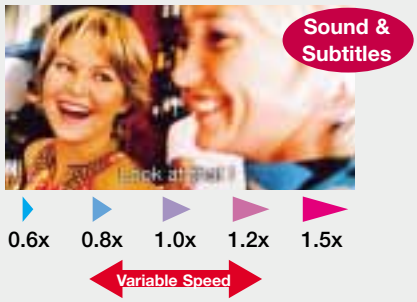
192kHz/24-bit Audio D/A Converter

Combining 8-times oversampling/192kHz with 24-bit resolution, the JVC DVD players offer astounding sound quality with high clarity and fidelity.

Ease of Use, Comfort, and Convenience

Vari-Play with Sound & Subtitles

The units deliver Quick/Slow Playback complete with sound and subtitles. The 1.2x/1.5x Quick Playback permits fast check of program content without missing subtitles. The 0.6x/0.8x Slow Playback with sound and subtitles makes rapid speech easier to follow.
(XV-N422S/XV-N420B/XV-N322S/XV-N320B)

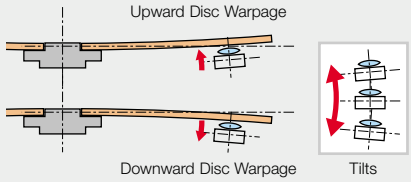


Express Play Start

Turn on the system and load a disc into the DVD player. The first movie scene appears on screen with virtually no waiting. Express Play Start has a unique algorithms to identify media and optimize parameters, the wait for the show to start is over.

Rolling Pickup

JVC's laser pickup has been known for superior resistance against mistracking caused by the variable thicknesses of two-sided discs, serious scratches, disc wobbling and non-concentricity. JVC developed a higher-performance pickup — the Rolling Pickup — that follows wandering tracks and plays warped discs with impeccable precision. You can play difficult discs and enjoy movies with JVC DVD players when you can't with other players.



High-Resolution GUI (Graphical User Interface)

JVC DVD players come with high-resolution GUI, which features smooth images and letters. Moreover, PC-like tool bars appear overlaid at the top of the TV screen, with options listed in drop-down menus, for simple point and click operation.

JPEG Playback

JVC's players allow you to play back "baseline" JPEG files you burn on a CD-R or CD-RW with your computer — digital still images you've captured with your digital camera, for instance. So, with a JPEG-compatible DVD player connected to your living-room TV, you can enjoy photos enlarged on the screen with your family or friends.

DivX Compatibility

- Official DivX Certified™ product
- Plays DivX® 5, DivX® 4, DivX® 3, and DivX® VOD video content (in compliance with DivX Certified™ technical requirements).

(XV-NP10S)

Note: Some CD-R and CD-RW (Linear PCM/MP3/JPEG/SVCD/VCD) discs, as well as some DVD-R discs, may not be played properly depending on their condition. Normally, DVD-R discs recorded with the DVD VIDEO format can be played back, but there are some that may not because of the disc characteristics or recording condition.

XV-NP10S
DVD Video Player/Memory Card Player

DVD Video Player/Memory Card Player with DivX Playback, Progressive Scan, and Express Play Start

- Playable Formats: DVD-Video, DVD-RW (Video Format), DVD-R, CD, SVCD, VCD, CD-R/RW, WMA/MP3/JPEG Digital Still (CD-R/RW, Memory Cards), MPEG-4 (Advanced Simple Profile), DivX, Memory Cards (SD, MMC, Memory Stick, Smart Media, Compact Flash, XD)
- Progressive Scan Output
- PAL Playback on NTSC TV
- Dolby Digital/DTS/MPEG Digital Output
- Component Video Output
- AV COMPU LINK

• Digital Direct Progressive Scan Output • Direct Mounting/Readout of Data Stored on Memory Cards • High-Speed Display of Thumbnail Images • New 1-Chip AV Decoder and High-Speed DSP • 192kHz/24-bit Audio D/A Converter • 10-bit/54MHz Video D/A Converter • 1.5x Quick Playback with Sound • Express Play Start • Rolling Pickup • VFP (Video Fine Processor): 7 Parameters with 2 Presets and 2 Manual Settings • High-Resolution GUI (Graphical User Interface) • DTS Analog 2ch Downmix Output • One-Touch Replay (10 Sec.) • Zoom Play (3 Steps) • Stylish, Slim Design

Direct Playback of Various Formats Saved in Memory Cards

* Do not insert more than one card at a time.

The XV-NP10S features a versatile interface for a wide range of memory cards, including SD, MMC (MultiMediaCard), Memory Stick, Smart Media, Compact Flash and xD-Picture Card™(XD). It directly loads, reads and plays stills, moving pictures, and audio programs stored in a mounted memory card. JPEG (digital still images), WMA, MP3, and MPEG-4 (digital video images, Simple Profile) can be played back, whether the files are saved on a CD/DVD disc or in a memory card. MPEG-4 (Advanced Simple Profile) and DivX file playback is also possible from a CD/DVD disc.

XV-N512S

XV-N512S
XV-N510B
DVD Audio/Video Player

DVD Audio/Video Player with 5.1ch Dolby Digital/DTS/MPEG Decoder, 3D-PHONIC, Progressive Scan, Adaptive Geometrical Chroma Mapping, and Express Play Start

- Playable Formats: DVD-Audio, DVD-Video, DVD-RAM, DVD-RW, DVD-R, CD, SVCD, VCD, CD-R/RW, WMA/MP3/JPEG Digital Still (CD-R/RW)
- Progressive Scan Output
- PAL Playback on NTSC TV
- Dolby Digital/DTS/MPEG Digital Output (5.1-Channel)
- Component Video Output
- AV COMPU LINK

• Digital Direct Progressive Scan Output • Ultra-High Performance 1-Chip AV Decoder Featuring Adaptive Geometrical Chroma Mapping • Dolby Digital/DTS/MPEG Decoders Built-in (5.1-Channel) • 192kHz/24-bit Audio D/A Converter • 12-bit/108MHz Video D/A Converter • DigiPure • 1.5x Quick Playback with Sound • Express Play Start • Rolling Pickup • VFP (Video Fine Processor): 8 Parameters with 2 Presets and 2 Manual Settings • High-Resolution GUI (Graphical User Interface) • One-Touch Replay (10 Sec.) • Zoom Play (6 Steps) • Stylish, Ultra-Slim Design — Only 1 3/4" (44mm) High

XV-N510B

XV-N422S
XV-N420B
DVD Video Player

XV-N422S

DVD Video Player with Illuminated Disc Tray, featuring Progressive Scan, Vari-Play (w. Sound & Subtitles), and Express Play Start

- Playable Formats: DVD-Video, DVD-RW (Video Format), DVD-R (Video Format), CD, SVCD, VCD, CD-R/RW, WMA/MP3/JPEG Digital Still (CD-R/RW)
- Progressive Scan Output
- PAL Playback on NTSC TV
- Dolby Digital/DTS/MPEG Digital Output
- Component Video Output
- AV COMPU LINK

• Digital Direct Progressive Scan Output • 192kHz/24-bit Audio D/A Converter • 10-bit/54MHz Video D/A Converter • Vari-Play (Variable-Speed Playback) with Sound and Subtitles (1.5x/1.2x/1.0x/0.8x/0.6x) • Express Play Start • Rolling Pickup • VFP (Video Fine Processor): 7 Parameters with 2 Presets and 2 Manual Settings • High-Resolution GUI (Graphical User Interface) • One-Touch Replay (10 Sec.) • Zoom Play (3 Steps) • Illuminated Disc Tray (with Dimmer Control) • Stylish, Ultra-Slim Design — Only 1 3/4" (44mm) High

XV-N420B

Illuminated Disc Tray

The XV-N422S and XV-N420B feature a transparent disc tray elegantly illuminated in blue, lending an even sleeker look to these stylish units. Dimmer control is also available.

XV-N322S
XV-N320B
DVD Video Player

XV-N322S

DVD Video Player with Progressive Scan, Vari-Play (w. Sound & Subtitles), and Express Play Start

- Playable Formats: DVD-Video, DVD-RW (Video Format), DVD-R (Video Format), CD, SVCD, VCD, CD-R/RW, MP3/JPEG Digital Still (CD-R/RW)
- Progressive Scan Output
- PAL Playback on NTSC TV
- Dolby Digital/DTS/MPEG Digital Output
- Component Video Out

• Digital Direct Progressive Scan Output • 192kHz/24-bit Audio D/A Converter • 10-bit/54MHz Video D/A Converter • Vari-Play (Variable-Speed Playback) with Sound and Subtitles (1.5x/1.2x/1.0x/0.8x/0.6x) • Express Play Start • Rolling Pickup • VFP (Video Fine Processor): 7 Parameters with 2 Presets and 2 Manual Settings • High-Resolution GUI (Graphical User Interface) • One-Touch Replay (10 Sec.) • Zoom Play (3 Steps) • Stylish, Ultra-Slim Design — Only 1 3/4" (44mm) High

XV-N320B

Experience

HD-ILA from JVC

Home Theater is equal parts picture and sound. With the right products, the result can be a total immersion, which takes the viewer beyond the confines of the living room. Once you've decided on the audio components, the next key decision is to select a state-of-the-art HD display.

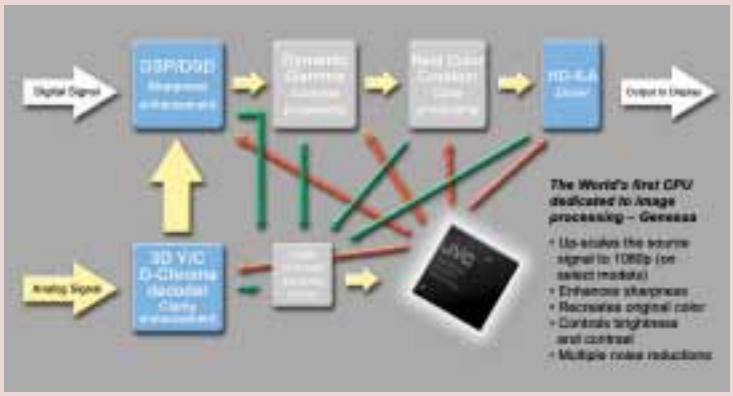
Micro Device displays are the biggest news in HDTV, and JVC is leading the industry as the first to offer a full line of these displays with the revolutionary D-ILA technology. JVC has been perfecting this technology for many years. Our professional display division has been offering state-of-the art D-ILA front projection displays since 1997 for digital cinema and other demanding applications. Now that same technology is available in a full line of rear projection displays, designed for home use.

JVC HD-70G886

Never before have such large screen displays been so slender and light weight. A 52" HD-ILA is just over 16 inches deep, and only weighs about 85 pounds. Imagine the possibilities! The HD-ILA fits where ordinary rear-projection televisions cannot, and it can be integrated beautifully into virtually any room. 56", 61" and 70" sizes are also available.

Even more impressive than the size is the picture quality. Leading enthusiast magazines are raving about JVC's HD-ILA. Get close and notice the incredible detail with virtually no visible "pixel grid" or "screen door" effect. Or, sit back and take it all in… you will be amazed to see the most lifelike color, natural, smooth contrast and brightness of the D-ILA light engine. Credit goes to JVC's exclusive 3-chip, reflective design.

For 2005 you can connect an even wider variety of devices to the HD-ILA. Use it as a computer monitor with the VGA connector, or hook up the latest HD satellite receiver through the HDMI connection. An ATSC HD Tuner with Digital CableCARD™ capability is also standard this year. Plenty of other HD and SD connections are available, and with a picture this good it's likely you will want to use them all.



Genessa CPU Diagram

Integrated Digital Terrestrial Receiver

Integrated HDTV

The integrated digital terrestrial receiver is all you need to enjoy full access to ATSC digital terrestrial broadcasts, all the way from standard definition (SD) to 1080i high definition. Since the digital terrestrial receiver is built in, you do not need an IEEE 1394 connection and an extra STB (for ATSC broadcasts). The HM-DT100 receives all forms of ATSC digital terrestrial programs including high-definition broadcasts, records them exactly “as they are” with no loss of quality, and plays them back whenever you want.

Single, Uncompressed, Digital HDMI™ Connection with Content Protection (HDCP) Technology

HDMI™ HIGH-DEFINITION MULTIMEDIA INTERFACE

Adopted by over 100 manufacturers, the digital HDMI™ interface is already set to become the standard of the future. It delivers uncompressed digital video and audio signals to your display, so there is no signal deterioration. HDMI™ prevents any signal loss by transferring video digitally, without going through an analog interface or performing unnecessary digital-to-analog conversions, delivering a pristine signal that produces lossless images identical to the original. Not only does HDMI™ give you the highest quality images, but also true-to-life sound to intensify your home theater experience.

Backed by major motion picture studios, HDMI™ provides digital content that truly reflects the filmmaker’s original vision. To support secure one-way transfer of digital content, the HM-DT100 and HM-DH5 feature HDMI™ output with content protection technology called HDCP.

Plus, HDMI™ also transfers video from existing standard definition analog sources, after conversion to progressive 480p digital video for greatly improved image quality. And, since this breakthrough technology’s single cable handles both video and multi-channel audio, it makes cabling complications a thing of the past.

* Copy protected contents cannot be transferred through the HDMI™ output to any device not equipped with an HDCP-compliant connector. Please be sure to connect to or via HDCP-compliant devices.
** HDMI™ is compatible with DVI-D so an HDMI™ cable can be connected to a DVI-D-compatible TV display using a DVI conversion cable. However, please be sure to verify that the source unit is HDCP-compliant.
*** The DVI-D cable does not carry audio signals.

Full Spec HDTV Compatible

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 directly recording HD digital broadcasts with HD quality. Highest quality recording of any digital or analog source.
STD	14.1 Mbps	5 hrs.	7 hrs.	8 hrs.	To digitally record from digital or analog sources with SD quality.
LS3	4.7 Mbps	15 hrs.	21 hrs.	24 hrs.	To record a large number of programs on a single cassette with average DVD quality.

* Please check for availability.

When it comes to HDTV recording, nothing compares to JVC’s D-VHS. With a 28.2 Mbps HS mode that exceeds the 19 Mbps specification of ATSC MPEG-2 HD broadcasting formats, D-VHS captures the full HDTV signal with no data loss whatsoever. And since a single D-VHS DF-480 tape holds up to 50 gigabytes of data, all that picture and sound information can be recorded in its original, full-quality 1080i or 720p broadcast form for up to 4 hours. Of course, D-VHS also records up to 8 or even 24 hours of standard definition sources such as 480p* and 480i digital broadcasts in D-VHS’s 14.1 Mbps STD and LS3 modes.

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

HDTV Compatible MPEG-2 HD Decoder and HDTV Component Output

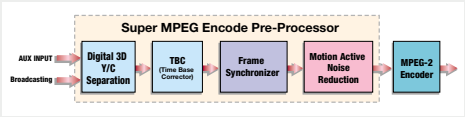
In addition to HDMI™ digital-to-digital connection, the HM-DT100 and HM-DH5 also support analog connection. The MPEG-2 HD Decoder converts recorded MPEG-2 signals into Component output signals (Y/Pb/Pr). Connect directly to any HDTV or projector equipped with Component input terminals to enjoy the full quality of D-Theater™ software and other high-definition images.

MPEG-2 CODEC to Record Various Sources Digitally

The standard definition MPEG-2 encoder makes D-VHS digital recordings from NTSC analog sources, as well as converting signals from a connected MiniDV camcorder to MPEG-2 and recording them on D-VHS.

Super MPEG Encode Pre-Processor Enhances Analog Signals for Digital Recording

To record analog sources in high-quality digital, the HM-DT100 and HM-DH5 use JVC’s exclusive Super MPEG Encode Pre-Processor to eliminate the defects inherent in analog signals and create new digital recordings that actually appear to surpass the original quality. Its Time Base Corrector (TBC) eliminates jitter, Frame Synchronizer corrects frame crossover jitter and processes any deviant frames, and Motion Active Noise Reduction circuit removes noise from both still and moving parts of video pictures. The deck digitally encodes and records the now pristine NTSC-compliant analog input signals, free of image lag, smear and MPEG artifacts such as mosquito noise.



5.1ch Dolby Digital Sound

DOLBY DIGITAL

The D-VHS decks record high-definition broadcasts complete with 5.1ch surround sound. In addition, HDMI™ and the optical digital audio output makes it easy to connect and enjoy outstanding audio performance on your home theater sound system.

Linear PCM Digital Audio Capability

Thanks to the HM-DT100 and HM-DH5’s 48kHz/16-bit linear PCM recording in either HS or STD mode, you can record full quality linear PCM digital sound from a MiniDV camcorder connected via i.LINK. You can also record high-quality soundtracks from analog sources in this non-compressed digital format to accompany the resulting high-quality digital image. The PCM audio data rate uses 1.6 Mbps out of the 28.2 Mbps HS and 14.1 Mbps STD modes.

i.LINK Terminals

IEEE 1394 (i.LINK) digital interface terminals with DTCP* content protection technology on the front and rear of the HM-DT100 and HM-DH5 allow you to easily connect with i.LINK compatible devices such as a MiniDV or high-definition camcorders for convenient digital-to-digital dubbing. You can also connect the HM-DH5 with a Digital Set-Top Box (STB) to transfer and record HD and SD broadcast digital signals**.

* DTCP (Digital Transmission Content Protection) protects digital content from unauthorized copying. Copy-protected contents cannot be recorded via i.LINK terminals. Connected digital devices must be DTCP-compatible to playback copy-protected digital content.
** Service depends on whether the digital stream provided by cable systems conforms to the ATSC format.

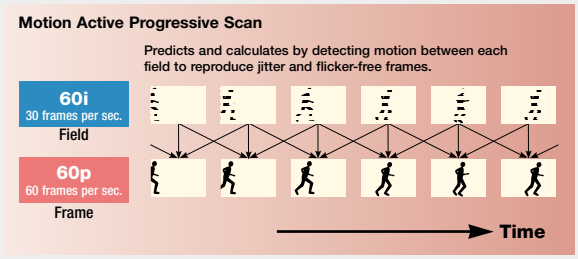
Playback Picture Format Converter

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	Playback Output		
	HDMI™	Analog	i.LINK (IEEE 1394)
1080i	1080i/480p/480i	1080i/480p/480i	1080i
720p	1080i/720p/ 480p/480i	1080i/720p/ 480p/480i	720p
480p	480p/480i	480p/480i	480p
480i	480p/480i	480p/480i	480i

Motion Active Progressive Scan for Enhanced Big-Screen Performance

The ideal companion for your large-screen display, the HM-DT100 and HM-DH5 incorporate JVC's exclusive Motion Active Progressive Scan circuit to up-convert standard interlace 480i signals to progressive 480p, eliminating inferior image quality on larger screens. Using sophisticated motion detection circuitry for pixel compensation, JVC's Motion Active Progressive Scan circuit eliminates jitter and flicker to produce smoother, cleaner images that come close to matching the quality of true progressive scan sources. Since this minimizes the normal picture degradation as display screens get larger, S-VHS and VHS tapes will look better than ever when you play them on the decks.



HM-DT100

D-VHS HDTV Recorder with Built-in ATSC Digital Tuner

D-VHS HDTV Recorder with Built-in ATSC Digital Tuner gives you full access to ATSC digital terrestrial broadcasts and records full HDTV images with no quality loss

- Playable Formats: D-VHS, D-Theater, S-VHS, VHS Hi-Fi
- Super VHS High Resolution plus Super VHS ET Recording
- Plays D-Theater tapes
- VHS Hi-Fi Stereo with MTS/SAP Decoder

• Integrated Digital HDTV Receiver (Built-in ATSC Tuner) • Digital interface HDMI™ (High-Definition Multimedia Interface) for lossless, noiseless images and easy connection. All incoming source signals are output via HDMI™ • HDCP (High-bandwidth Digital Content Protection) copyright protection technology for secure one-way transfer of digital content • MPEG-2 decoder built-in for direct connection to HDTV via analog component (Y/Pb/Pr) or digital component (HDMI™) output • Motion Active Progressive Scan Output (for analog tuner and S-VHS/VHS Hi-Fi sources) for progressive scan via component output or HDMI™ • 4-Hr. HDTV Digital Broadcast bit-stream recording/playback with HS Mode (DF-480 tape) • Super MPEG Encode Pre-Processor: Time Base Corrector (TBC), Frame Synchronizer and Motion Active Noise Reduction • Optical Digital Audio Output — 5.1ch Dolby Digital/2ch Linear PCM/DTS • Linear PCM Digital Audio Soundtrack Recording with SD Video in HS and STD Mode (48kHz/16-bit Audio Rate 1.6 Mbps) • 5.1ch Dolby Digital at 576 to 640bps or full-rate DTS sound — 1.5 to twice the audio rate possible with DVD • DigiPure Technology with Frame Memory for precise 3D-Y/C separation and high-quality playback • Auto HS/STD mode select for easy digital terrestrial broadcast rec. • Can record any type of broadcast; Digital HD, SD or Analog SD • MPEG-2 CODEC encoding/decoding for Digital Recording of NTSC sources • 8-Hr. Digital Recording in STD Mode in higher than DVD Quality (up to 500 TV lines/H) (PCM Audio Rate 1.6 Mbps) • 24-Hr. Digital Recording in LS3 Mode in average DVD Quality (up to 400 TV Lines/H)

HM-DH5
D-VHS Digital HDTV Recorder

D-VHS Digital HDTV Recorder featuring built-in HDMI™ digital interface that delivers uncompressed digital video and audio signals for lossless images and astounding sound

- Playable Formats: D-VHS, D-Theater, S-VHS, VHS Hi-Fi
- Super VHS High Resolution plus Super VHS ET Recording
- Plays D-Theater tapes
- VHS Hi-Fi Stereo with MTS/SAP Decoder

• Digital interface HDMI™ (High-Definition Multimedia Interface) for lossless, noiseless images and easy connection. All incoming source signals are output via HDMI™. • HDCP (High-bandwidth Digital Content Protection) copyright protection technology for secure one-way transfer of digital content • MPEG-2 decoder built-in for direct connection to HDTV via analog component (Y/Pb/Pr) or digital component (HDMI™) output • Motion Active Progressive Scan Output (for analog tuner and S-VHS/VHS Hi-Fi sources) for progressive scan via component output or HDMI™ • Digital Set-Top Box (STB) Ready with digital-to-digital connection via i.LINK (IEEE1394) Terminal from STB or Integrated HDTV • 4-Hr. HDTV digital broadcast bit-stream recording/playback with HS Mode (DF-480 tape) • Super MPEG Encode Pre-Processor: Time Base Corrector (TBC), Frame Synchronizer and Motion Active Noise Reduction • Optical Digital Audio Output — 5.1ch Dolby Digital/2ch Linear PCM/DTS • Linear PCM Digital audio soundtrack recording with SD Video in HS and STD Mode (48kHz/16-bit audio rate 1.6 Mbps) • 5.1ch Dolby Digital at 576 to 640bps or full-rate DTS sound — 1.5 to twice the audio rate possible with DVD • Auto HS/STD mode select for easy digital terrestrial broadcast rec. • DigiPure Technology with Frame Memory for precise 3D-Y/C separation and high-quality playback • Can record any type of broadcast; Digital HD, SD or Analog SD • MPEG-2 CODEC encoding/decoding for digital recording of NTSC sources • 8-Hr. digital recording in STD Mode in higher than DVD quality (up to 500 TV lines/H) (PCM Audio Rate 1.6 Mbps) • 24-Hr. digital recording in LS3 Mode in average DVD quality (up to 400 TV Lines/H)

Experience

DISH from JVC

You'll get more enjoyment from your home theater system when you have the best possible programming available. When it comes to the greatest variety, highest quality, and the most advanced technology, nobody beats JVC and DISH Network.

Imagine a single component that can feed your choice of exciting DISH Network programming in either high definition for your main room or standard definition to any room in the house. Now imagine this same component can also record and save any programming to a built-in 250 GB hard drive for later viewing. The hard drive also makes it possible to pause live programming as well as to back that programming up for an instant replay or skip past a commercial. There's even a built-in ATSC tuner for watching and recording local off-air HD network broadcasts.

JVC/DISH TU-DVR942

DISH Network high definition programming includes HBO, Showtime, ESPN, Discovery Channel, HDNet, HDNet Movies, TNT as well as HD pay-per view and other HD special events. Select DISH Network programming packages also include access to more than 60 channels of music from Sirius Satellite Radio. It's a value that can't be beat!

A standard IR remote is provided to control the HD programming in the main room. An HDMI (compatible with DVI) connection provides a pure all digital connection to your JVC display, while an optical audio output feeds the Dolby Digital signal to your JVC surround sound receiver. It's everything you need for the ultimate home theater experience!

A second UHF remote is provided to control the SD programming through walls, floors or ceilings from any other room in the house. This makes it possible to watch different programming in each of the two zones, either live or from the hard drive.

Don't need two zones of entertainment? Use the two tuners at the same time for picture-in-picture functionality on any TV in the house.

A full line of JVC DISH Network satellite receivers are available in both high definition and standard definition models. Choose one with a built-in hard drive for easy recording and time-shifting, or choose a standard model and expand your programming options into additional rooms. No matter what your requirements, JVC/DISH Network offers the perfect experience in satellite receiver systems.

JVC/DISH 811
An ideal choice if you do not need the hard drive recording functionality of the TU-DVR942.

Experience

Digital Receivers from JVC

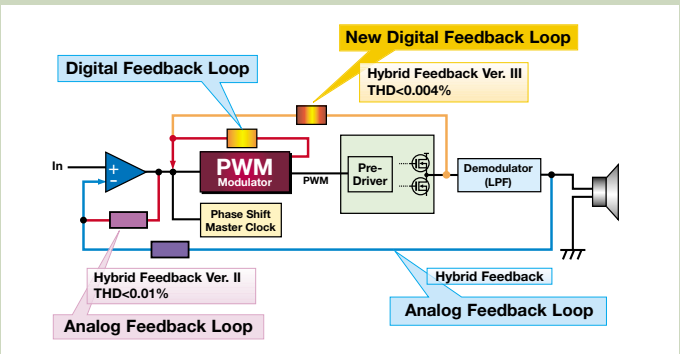
***You selected JVC as the absolute best DVD Recorder—
now you want to make sure you have the sound you need to complete that home theater experience. Measure it any way you want: For performance, design, or features,
the new JVC Surround Receivers are the perfect solution for the ultimate home theater sound.***

Thanks to JVC's exclusive Hybrid Feedback Digital Amplifier, it is now possible to build a full-featured receiver in a super slim, stylish design. It's a natural match for your DVD Recorder, and for the newest HD displays. Even the most basic model has 7 channels of amplification. This is ideal for today's state-of-the-art surround sound formats, including Dolby Digital-EX and DTS-ES. The power output ranges from 100 watts per channel on our entry level model, all the-way up to 150 watts per channel on our top-of-the-line.

RX-D702

Despite their small size, these new receivers have all the features and connectivity you need to build a first rate system. The new USB connection is a great example. It allows for easy connection to a computer for streaming music. Instead of listening to your MP3 music on the one inch laptop speakers, you can now listen to them through your primary speakers in your living room. Select models improve on that with a wireless USB connection so you can keep your laptop on your desk and stream your MP3 tracks to your new JVC receiver.

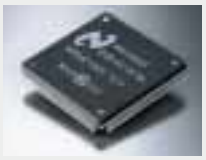
On select JVC models HDMI there are two HDMI inputs, along with an HDMI output (compatible with DVI). HDMI is the newest, most advanced video connection that transfers all of your audio and video along a single cable in pure digital. And JVC's new digital receivers simplify the connection even more since all video inputs (even composite and s-video) can be converted to the fully digital HDMI output to your TV set providing the best and cleanest link between your receiver and TV.



JVC Hybrid Feedback Digital Amp Ver. III

The Dual-Deck Advantage

Ultra-High Performance 1-Chip AV Decoder

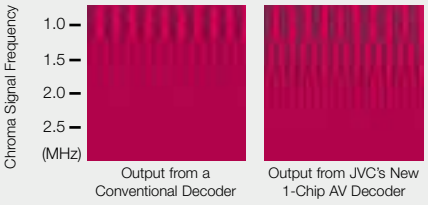


The sophisticated JVC-exclusive AV decoder integrates an MPEG AV decoder DSP, Video Fine Processor, 10-bit/ 54MHz video DAC and audio DSP. Controlled by a high-speed 125MHz CPU, the video DAC performs high 10-bit re-quantization and high 54MHz sampling for a wide video bandwidth, producing a smooth image free of noise. Moreover, the video bandwidth is broadened for less distortion, less smear and higher resolution.

Adaptive Geometrical Chroma Mapping

Adaptive Geometrical Chroma Mapping

Because the data application of compression, chroma (color) resolution of the signal from a DVD is only one-quarter the luma (luminance) resolution. This causes a lack in detail and definition in images displayed on your TV. JVC's Adaptive Geometrical Chroma Mapping fully restores the original image's quality before it was compressed. It works with RGB, S-video and composite signals, whether they are sources from film or video.



Digital Direct Progressive Scan Output

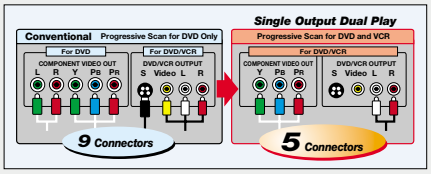
Digital Direct Progressive Scan

When viewing a movie on a pre-recorded DVD, Digital Direct Progressive Scan Output sends the original progressive data (film is inherently progressive) to be outputted without converting to interlace data. Now, there is no quality loss and the picture remains true to the original film source.

VHS Progressive Scan Output

By adding VHS Progressive, a single set of component output can be used for both progressive DVD and VHS playback. It's never been easier to enjoy superior quality. Connecting and operation is more convenient since you don't need to switch TV inputs when changing between DVD and VHS.

In order to enjoy images with improved edge detail and less flicker on your VHS tapes, the Time Base Corrector (TBC) produces images with superior quality by eliminating jitter contained in analog input signals.



Multi-Media Playback

Our DVD/Video combination decks offer all the picture quality and rapid access of DVD, plus recording TV programs on VHS videocassette, and playback the tapes you've accumulated over the years. The disc player also supports CD and CD-R/RW playback, including CD Audio, MP3/JPEG files, and Video CD/SVCD to accommodate modern audiovisual lifestyles. Multi-Session CD Playback feature is also available so you can playback both audio and data content recorded in one media.

Super Picture Quality

Super VHS High Resolution

S-VHS

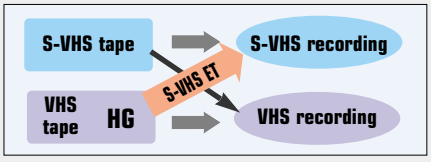
With more than 400 lines of horizontal resolution, Super VHS delivers +60% sharper picture quality than conventional analog video. Ideal for viewing on large-screen TVs and making master tapes.

Super VHS ET (Expansion Technology)*

Super VHS ET

An innovation that puts higher quality within everybody's reach, this advanced function lets you record Super VHS signals on the more widely available VHS tapes**, so you can enjoy +60% sharper picture quality at the touch of a button.

* Only SP mode recording and playback is available for Super VHS ET.
** JVC's EHG (Extra High Grade) tapes recommended. There are some S-VHS VCR models by JVC and other manufacturers with which playback of an S-VHS ET recorded tape is not possible.



Active Video Calibration

Active Video Calibration automatically judges video head condition and calibrates tape quality to optimize long-term picture performance.

High Performance & Easy Operation

DVD/VHS Auto Select

When you insert a videocassette with its safety tab removed in the DVD mode, the deck will automatically switch to the VHS mode. Conversely, when you load a DVD disc with automatic playback function in the VHS mode, the deck automatically switches to output the DVD program.

One-Touch Replay

When you missed an important scene, you can view the scene easily. Press the "ONE-TOUCH REPLAY" button on the remote and the deck will rewind and play back scenes from 10 sec. (on DVD) and 7 sec. (on tape) before.

Plug & Play*

Plug&Play

Simply follow the instructions on the on-screen menu, and set-up starts automatically. Automatic tuner setting, VCR Plus+ Guide Channel setting, and clock setting greatly simplify video deck installation. (Whether all Plug & Play facilities are functional may differ by region.)

* Where applicable.

SQPB (S-VHS Quasi Playback)

SQPB

Allows playback of Super VHS* tapes with regular VHS resolution.

* In SP mode.

Express Programming

Easy manual programming via a single row of buttons on the remote.

Video Navigation System

Information on the programs you record is stored in the VCR's internal memory — about 2000 titles! So, to watch something you've recorded, just browse through the program lists — these can be listed by the tape number assigned to each cassette, date of recording or program category (like movies, sports, news, etc.)

HR-XVC37

DVD Video Player & VHS Hi-Fi Stereo Video Recorder Combo

2-in-1 Combo Deck with DVD and VHS Progressive Scan for superior quality images

- Playable Formats: VHS Hi-Fi, DVD-Video, DVD-RW (Video Format), DVD-R (Video Format), CD, SVCD, VCD, CD-R/RW, MP3/JPEG Digital Still (CD-R/RW)
- SQPB (S-VHS Quasi Playback)
- VHS Hi-Fi Stereo with MTS Decoder

- DVD and VHS Progressive to optimize your picture quality
- DVD and VHS Progressive Scan — With a single set of component outputs for both DVD and VHS progressive playback, connection is much easier. Lossless images are reproduced through this high-quality connection.

- Ultra-High Performance 1-Chip AV Decoder Featuring Adaptive Geometrical Chroma Mapping for noiseless, detailed images
- Multi-Session CD Playback for easy playback of audio and data content recorded on one media
- 3D-PHONIC for virtual surround sound

HR-XVC29S

HR-XVC29S/HR-XVC28B

DVD Video Player & VHS Hi-Fi Stereo Video Recorder Combo

2-in-1 Combo Deck with One-Touch Replay for DVD and VHS

- Playable Formats: VHS Hi-Fi, DVD-Video, DVD-RW (Video Format), DVD-R (Video Format), CD, SVCD, VCD, CD-R/RW, JPEG Digital Still (CD-R/RW)
- SQPB (S-VHS Quasi Playback)
- VHS Hi-Fi Stereo with MTS Decoder

- Digital Direct Progressive Scan Output for high-resolution images
- Ultra-High Performance 1-Chip AV Decoder Featuring Adaptive Geometrical Chroma Mapping for noiseless, detailed images
- DVD/VHS Auto Select enables easy viewing selection

- One-Touch Replay for DVD (10 Sec.) and VHS (7 Sec.) to rewind and play back scenes missed
- Multi-Session CD Playback for easy playback of audio and data content recorded on one media
- Newly Designed Remote with more convenient functions

HR-XVC28B

Convenient MiniDV Features

Easy PC Connectivity and NLE Compatibility (MiniDV/S-VHS/VHS ↔ PC)

Simplifies getting your video footage to your PC for non-linear editing (NLE), and once you're done editing, getting the final result back to video, whether MiniDV or Super VHS/VHS, is equally easy. i.LINK (IEEE 1394 compliant) connectivity and tested compatibility with many major NLE systems* will put your editing suite into the digital age.

64-Program "EasyEdit" (MiniDV → S-VHS/VHS)

"EasyEdit" with Random Assemble Editing lets you choose up to 8 segments at a time on the MiniDV tape, and at the touch of a button they're automatically copied over to S-VHS/VHS. And since up to 8 pre-set programs can be stored in memory, this function lets you keep the information of 64 segments (8 x 8) in the deck to make additional copies by simply calling up the program number.

One-Touch Dubbing (MiniDV ↔ S-VHS/VHS)

If you just want a straight dub, let the HR-DVS3 dub the contents of the MiniDV tape over to S-VHS/VHS, or vice versa, at the touch of a single button.

MiniDV Format

The HR-DVS3's built-in MiniDV recorder produces a high-resolution picture with over 500 lines of horizontal resolution, and breathtaking colors with approx. 3 times the bandwidth of conventional video.

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

S-VHS Recorder / MiniDV Recorder

HR-DVS3

MiniDV/Super VHS Hi-Fi Stereo Video Cassette Recorder

MiniDV and VCR Combo Deck allows easy playback of MiniDV, editing from MiniDV to S-VHS/VHS and connectivity with Non-Linear Editing systems

- Playable Formats: MiniDV, S-VHS, VHS Hi-Fi
- Super VHS High Resolution plus Super VHS ET Recording
- VHS Hi-Fi Stereo with MPX Decoder

• MiniDV Format • Easy PC Connectivity and NLE Compatibility (MiniDV/S-VHS/VHS ↔ PC) • One Touch Dubbing (MiniDV ↔ S-VHS/VHS) • 64-Program "EasyEdit" (MiniDV → S-VHS/VHS) • DV Input/Output terminals • DigiPure Technology • PCM Digital Audio (MiniDV) • Advanced Jog (S-VHS/VHS)

HR-S9911

Super VHS Hi-Fi Stereo Video Cassette Recorder

Super VHS Hi-Fi VCR featuring DigiPure Technology with 4MB Frame Memory

- Playable Formats: S-VHS, VHS Hi-Fi
- Super VHS High Resolution plus Super VHS ET Recording
- VHS Hi-Fi Stereo with MTS Decoder

• Super VHS High Resolution plus Super VHS ET Recording • DigiPure Technology with 4MB Frame Memory • Special Effects Playback • Smooth Slow Motion • Video Navigation • Reliable Timer Recording (VCR Plus+, Rec Link, Express Programming, 24-Hr Quick Programming) • Insert Editing with Flying Erase Head/Audio Dubbing for pro-style editing • Advanced Jog • Multi-Brand TV/Cable/DBS Compatible Remote with Glow-Keys

HR-S5912

HR-S5912/HR-S5902
Super VHS Hi-Fi Stereo Video Cassette Recorder

Super VHS Hi-Fi VCR with pro-style editing features

- Playable Formats: S-VHS, VHS Hi-Fi
- Super VHS High Resolution plus Super VHS ET Recording
- VHS Hi-Fi Stereo with MTS Decoder

• Super VHS High Resolution plus Super VHS ET Recording for +60% sharper pictures • Reliable Timer Recording (VCR Plus+, Rec Link, Express Programming, 24-Hr Quick Programming) • Insert Editing with Flying Erase Head/Audio Dubbing for pro-style editing • Advanced Jog Dial allows frame-by-frame playback, variable speed slow motion and search • Multi-Brand TV/Cable/DBS Compatible Remote with Glow-Keys

HR-S5902

HR-S3912

HR-S3912/HR-S3902
Super VHS Hi-Fi Stereo Video Cassette Recorder

Super VHS Hi-Fi VCR with multi-functional Advanced Jog Dial

- Playable Formats: S-VHS, VHS Hi-Fi
- Super VHS High Resolution plus Super VHS ET Recording
- VHS Hi-Fi Stereo with MTS Decoder

• Super VHS High Resolution plus Super VHS ET Recording for +60% sharper pictures • Reliable Timer Recording (VCR Plus+, Rec Link, Express Programming, 24-Hr Quick Programming) • Active Video Calibration for best possible performance with any grade of tape • Advanced Jog Dial allows frame-by-frame playback, variable speed slow motion and search • Multi-Brand TV/Cable/DBS Compatible Remote

HR-S3902

HR-S2902
Super VHS Hi-Fi Stereo Video Cassette Recorder

Super VHS Hi-Fi VCR with +60% sharper pictures that are ideal for viewing on large screen TVs

- Playable Formats: S-VHS, VHS Hi-Fi
- Super VHS High Resolution plus Super VHS ET Recording
- VHS Hi-Fi Stereo with MTS Decoder

• Super VHS High Resolution plus Super VHS ET Recording so you can enjoy +60% sharper pictures • Express Programming enables easy manual programming • Active Video Calibration for best possible performance with any grade of tape • Plug & Play for simple video deck installation

HR-J692
VHS Hi-Fi Stereo Video Cassette Recorder

VHS Hi-Fi VCR with Express Programming for easy manual timer setting

- Playable Format: VHS Hi-Fi
- SQPB (S-VHS Quasi Playback)
- VHS Hi-Fi Stereo with MTS Decoder

• Express Programming enables easy manual programming • Plug & Play for simple video deck installation • Picture Control — 4 different settings to match the material you are viewing (NORM, EDIT, SOFT, SHARP)

Media — JVC Recording Media DVD and D-VHS Products

JVC is introducing an exciting new lifestyle packaging concept to showcase the full range of high-quality blank media products that we provide to the world.

DVD Models

In addition to the DVD models listed below, JVC also offers DVD+R and DVD+RW models.

DVD-R

VDR47EU10

10 pack slim color, 8x speed
UPC Code: 0-46838-01901-2 **Master:** 10

VDR47EU30

30 pack spindle, 8x speed
UPC Code: 0-46838-01902-9 **Master:** 10

VDR47EU5

5 pack, 8x speed
UPC Code: 0-46838-01516-8 **Master:** 10

VDR47EU5V

5 pack w/ movie box, 8x speed
UPC Code: 0-46838-01981-4 **Master:** 10

VDR47EU50

50 pack spindle, 8x speed
UPC Code: 0-46838-01982-1 **Master:** 5

DVD-RW

VDW47DU5

5 pack, 2x speed
UPC Code: 0-46838-01449-9 **Master:** 10

VDW47EU5

5 pack, 4x speed
UPC Code: 0-46838-01512-0 **Master:** 10

DVD-RAM

VDM47EU5

5 pack, 3x speed
UPC Code: 0-46838-01498-7 **Master:** 10

Digital VHS Models

D-VHS

DF300AU

Single, 300 min. digital VHS video cassette
UPC Code: 0-46838-00516-9 **Master:** 50

DF420AU

Single, 420 min. digital VHS video cassette
UPC Code: 0-46838-00577-0 **Master:** 50

HDD/DVD/MiniDV Video Recorder Combo

		DR-DX7SUS		
		HDD	DVD	MiniDV
MECHANISM/SERVO				
Playable Formats	DVD-Video		●	
	DVD-RAM/-RW (VR & Video)/-R/+RW/+R		●/●/●/●	
	SVCD/VCD		●/●	
	CD-DA		●	
	CD-R/RW		●	
	MP3 on CD-R/RW		●	
	WMA on CD-R/RW		●	
	JPEG on CD-R/RW		●	
Recordable Formats	DVD-RAM/-RW (VR & Video)/-R		●/●/●	
HDD Capacity		250GB		
PAL Playback on NTSC TV			●	
AUDIO				
Output Level		2.0V RMS		
Recording Audio Format		Dolby Digital/Linear PCM (XP Mode Only)		PCM 48/32kHz
Audio D/A Converter		192kHz/24-bit		
Dolby Digital/DTS/MPEG Digital Out		●/-/●	●/●/●	
Virtual Surround			●	
Audio Dubbing (12-bit x 2-Channel)				●
VIDEO				
Horizontal Resolution (Recording and Playback: XP/SP)		Approx. 500 Lines		
Recording Video Format		NTSC MPEG-2/DV (DV Mode)	NTSC MPEG-2	DV
Recording Time (Approx.)	DV	18 Hours		
	XP	53 Hours	1 Hour	
	SP	109 Hours	2 Hours	80 Minutes (DV80 Tape)
	LP	218 Hours	4 Hours	120 Minutes (DV80 Tape)
	EP	328 Hours	6 Hours	
	FR	53-473 Hours (63-Step)	1-8 Hours (63-Step)	
Video D/A Converter		10-bit/54MHz		
Progressive Scan Output	Film Source	Digital Direct Progressive Scan		
	Video Source	Motion Active Progressive Scan		
Super MPEG Encode Pre-Processor	Time Base Corrector	●		
	Frame Synchronizer	●		
	Motion Active Noise Reduction	●		
Super MPEG Post-Processor	Block Noise Reduction Circuit	●		
	Color DigiPure	●		
	Hadamard Noise Reduction System	●		
Live Memory		●	● (DVD-RAM)	
RetroActive Recording		●		
Relief Recording		●		
Auto 16:9 Record & Playback			●	
EDITING/DUBBING				
6-Way Dubbing			●	
Bit-Rate Optimizer (Intelligent Dual-Pass Encode Dubbing System) (HDD→DVD)		●		
Freezeless Editing for DVD Disc (HDD→DVD)		●		
HDD→DVD High-Speed Dubbing (Max. 64x)		● (RAM 5x, -RW 4x, -R 8x)		
Playlist-Based Editing		●		
Insert Editing				●
DVD-R Menu Screen with Thumbnail (18 Designs)			●	
PLAYBACK FUNCTION				
Library Database DVD Navigation			● (Max. 600 Discs/2,000 Titles)	
Animated Thumbnail on HDD/DVD Navigation		●	● (DVD-RAM/DVD-RW VR)	
1.5x Quick Playback with Sound		●		
Variable Search (Forward/Reverse)		±4 Steps		+3/-1 Steps
Variable Slow (Forward/Reverse)		±3 Steps		±1 Steps
Natural Reverse Playback (-1x)		●		
Time Skip		● (15 Min./30 Min./1 Hr.)		
Quick Skip (30-Sec. FWD Skip)		●		
One-Touch Replay		● (7 Sec.)		
Resume Function		● (with Title)	● (DVD-Video: 30-Disc/DVD-VR: On Library)	
Number of Titles		200	99	
FF/REW Speed				100 Sec.
Next Function Memory				REW→PLAY
TUNER				
MTS Decoder		●		
Channel Storage		181 ch		
Plug & Play		●		
TIMER				
Timer Program		Approx. 100-Program		
EPG		● (TVGOS '04)		
Permanent Program Memory		●		
TERMINALS				
Front	S-Video In	●		
	Composite In	●		
	Audio L/R In	●		
Rear	Component Out	●		
	S-Video In/Out	● (1)/● (2: HDD/DVD/DV x 1; HDD/DVD x 1)		
	Composite In/Out	● (1)/● (2: HDD/DVD/DV x 1; HDD/DVD x 1)		
	Audio L/R In/Out	● (1)/● (2: HDD/DVD/DV x 1; HDD/DVD x 1)		
	Optical Digital Out	●		
	Coaxial Digital Out	●		
DV In/Out		●/●	●/-	●/●
G-LINK	ϕ3.5 Mini	●		
DBS Control	ϕ3.5 Mini	●		
GENERAL				
On-Screen Display	GUI (Graphical User Interface)	●		
	On-Screen Language	English/French/Spanish		
Multi-Brand Remote		●		
Power Backup Time		5 Sec.		
Dimensions (W x H x D)	inches	$17^{3}/_{16}$ x $3^{13}/_{16}$ x $15^{1}/_{8}$		
	mm	435 x 96 x 383		
Weight	lbs.			
	kg			
Power Requirements		AC 120V/60Hz		
Power Consumption	Power On			
	Standby			

DVD-RAM cartridges not supported.

Notice: The non-DVD side of a "DualDisc" does not comply with the "Compact Disc Digital Audio" standard. Therefore, use of the non-DVD side of a DualDisc on these products is not recommended.

HDD/DVD/VHS Video Recorder Combo

		DR-MX1SUS		
		HDD	DVD	VHS
MECHANISM/SERVO				
Playable Formats	DVD-Video		●	
	DVD-RAM/-RW (VR & Video)/-R		●/●/●	
	SVCD/VCD		●/●	
	CD-DA		●	
	CD-R/RW		●	
	MP3 on CD-R/RW		●	
	WMA on CD-R/RW		●	
	JPEG on CD-R/RW		●	
Recordable Formats	DVD-RAM/-RW (VR & Video)/-R		●/●/●	
HDD Capacity		80GB		
PAL Playback on NTSC TV			●	
AUDIO				
Output Level		2.0V RMS		
Recording Audio Format		Dolby Digital/Linear PCM (XP Mode Only)		VHS Hi-Fi
Audio D/A Converter		192kHz/24-bit		
Dolby Digital/DTS/MPEG Digital Out		●/-/●	●/●/●	
Virtual Surround			●	
VIDEO				
Horizontal Resolution (Recording and Playback: XP/SP)		Approx. 500 Lines		
Recording Video Format		NTSC MPEG-2		NTSC
Recording Time (Approx.)	XP	18 Hours	1 Hour	
	SP	35 Hours	2 Hours	2 Hours (T-120 Tape)
	LP	70 Hours	4 Hours	
	EP	105 Hours	6 Hours	6 Hours (T-120 Tape)
	FR	18-147 Hours (63-Step)	1-8 Hours (63-Step)	
Video D/A Converter		10-bit/54MHz		
Progressive Scan Output	Film Source	Digital Direct Progressive Scan		
	Video Source	Motion Active Progressive Scan		
Super MPEG Encode Pre-Processor	Time Base Corrector	●		
	Frame Synchronizer	●		
	Motion Active Noise Reduction	●		
Super MPEG Post-Processor	Block Noise Reduction Circuit	●		
	Color DigiPure	●		
	Hadamard Noise Reduction System	●		
Live Memory		●	● (DVD-RAM)	
RetroActive Recording		●		
Relief Recording		●		
Auto 16:9 Record & Playback			●	
EDITING/DUBBING				
6-Way Dubbing			●	
Bit-Rate Optimizer (Intelligent Dual-Pass Encode Dubbing System) (HDD→DVD)			●	
Freezeless Editing for DVD Disc (HDD→DVD)			●	
HDD→DVD High Speed Dubbing (Max. 32x)			● (RAM 2x, -RW 2x, -R 4x)	
Auto Thumbnail Creation Dubbing (VHS→HDD/DVD)			●	
Auto Blank-Cut Dubbibg (VHS→HDD/DVD)			●	
Playlist-Based Editing			●	
DVD-R Menu Screen with Thumbnail (18 Designs)			●	
PLAYBACK FUNCTION				
Library Database DVD Navigation			● (Max. 600 Discs/2,000 Titles)	
Animated Thumbnail on HDD/DVD Navigation		●	● (DVD-RAM/DVD-RW VR)	
1.5x Quick Playback with Sound		●		
Variable Search (Forward/Reverse)		±4 Steps		±2 Steps
Variable Slow (Forward/Reverse)		±3 Steps		±1 Steps
Natural Reverse Playback (-1x)			●	
Time Skip		● (15 Min./30 Min./1 Hr.)		
Quick Skip (30-Sec. FWD Skip)			●	
One-Touch Replay			● (7 Sec.)	
Resume Function		● (with Title)	● (DVD-Video: 30-Disc/DVD-VR: On Library)	
Number of Titles		200	99	
SQPB				●
FF/REW Speed				140 Sec. (T-120 Tape)
Next Function Memory				REW→PLAY
TUNER				
Twin Tuner			●	●
MTS Decoder			●	●
Channel Storage		181 ch		181 ch
Plug & Play			●	
TIMER				
Timer Program		1-Year/32-Program		1-Month/8-Program
VCR Plus+		● (VCR Plus+C3)		●
Rec Link		●		
Permanent Program Memory			●	
TERMINALS				
Front	S-Video In	●		
	Composite In		●	
	Audio L/R In		●	
Rear	Component Out		●	
	S-Video In/Out	● (1)/● (1)		
	Composite In/Out		● (1)/● (2: HDD/DVD/VHS x 1; HDD/DVD x 1)	
	Audio L/R In/Out		● (1)/● (2: HDD/DVD/VHS x 1; HDD/DVD x 1)	
	Optical Digital Out		●	
	Coaxial Digital Out		●	
DV In/Out			●/-	
DBS/Cable Box Control	ø3.5 Mini		●	
GENERAL				
On-Screen Display	GUI (Graphical User Interface)		●	
	On-Screen Language		English/French/Spanish	
Multi-Brand Remote			●	
Power Backup Time			60 Min.	
Dimensions (W x H x D)	inches		$17^{3}/_{16}$ x $3^{13}/_{16}$ x $15^{1}/_{8}$	
	mm		435 x 96 x 383	
Weight	lbs.		14.8	
	kg		6.7	
Power Requirements			AC 120V/60Hz	
Power Consumption	Power On		49W	
	Standby		16.2W	

DVD-RAM cartridges not supported.

Notice: The non-DVD side of a "DualDisc" does not comply with the "Compact Disc Digital Audio" standard. Therefore, use of the non-DVD side of a DualDisc on these products is not recommended.

Hard Disk Drive & DVD Video Recorder Combo

		DR-MH300SUS	
		HDD	DVD
MECHANISM/SERVO			
Playable Formats	DVD-Video		●
	DVD-RAM/-RW (VR & Video)/ -R (VR & Video)/+RW/+R		●/●/●/●/●
	SVCD/VCD		●/●
	CD-DA		●
	CD-R/RW		●
	MP3 on CD-R/RW		●
	JPEG on CD-R/RW		●
Recordable Formats	DVD-RAM/-RW (VR & Video)/-R (VR & Video)		●/●/●
HDD Capacity		160GB	
PAL Playback on NTSC TV			●
AUDIO			
Output Level		2.0V RMS	
Recording Audio Format		Dolby Digital/Linear PCM (XP Mode Only)	
Audio D/A Converter		192kHz/24-bit	
Dolby Digital/DTS/MPEG Digital Out		●/-/●	●/●/●
Virtual Surround			●
VIDEO			
Horizontal Resolution (Recording and Playback: XP/SP)		Approx. 500 Lines	
Recording Video Format		NTSC MPEG-2	
Recording Time (Approx.)	XP	34 Hours	1 Hour
	SP	69 Hours	2 Hours
	LP	138 Hours	4 Hours
	EP	209 Hours	6 Hours
	FR	34-300 Hours (63-Step)	1-8 hours (63-Step)
Video D/A Converter		10-bit/54MHz	
HDMI Digital Output		● (1080i/720p Up-Conversion)*	
Progressive Scan Output	Film Source	Digital Direct Progressive Scan	
	Video Source	Motion Active Progressive Scan	
Super MPEG Encode Pre-Processor	Time Base Corrector	●	
	Frame Synchronizer	●	
	Motion Active Noise Reduction	●	
Super MPEG Post-Processor	Block Noise Reduction Circuit	●	
	Color DigiPure	●	
	Hadamard Noise Reduction System	●	
Live Memory		●	● (DVD-RAM)
RetroActive Recording		●	
Relief Recording		●	
Auto 16:9 Record & Playback		●	
EDITING/DUBBING			
Bit-Rate Optimizer (Intelligent Dual-Pass Encode Dubbing System) (HDD→DVD)		●	
Freezeless Editing for DVD Disc (HDD→DVD)		●	
HDD→DVD High Speed Dubbing (Max. 64x)		● (RAM 5x, -RW 4x, -R 8x)	
Playlist-Based Editing		●	
DVD-R Menu Screen with Thumbnail (18 Designs)		●	
PLAYBACK FUNCTION			
Library Database DVD Navigation			● (Max. 600 Discs/2,000 Titles)
Animated Thumbnail on HDD/DVD Navigation		●	● (DVD-RAM/DVD-RW VR)
1.5x Quick Playback with Sound		●	
Variable Search (Forward/Reverse)		±4 Steps	
Variable Slow (Forward/Reverse)		±3 Steps	
Natural Reverse Playback (-1x)		●	
Time Skip		● (15 Min./30 Min./1 Hr.)	
Quick Skip (30-Sec. FWD Skip)		●	
One-Touch Replay		● (7 Sec.)	
Resume Function		● (with Title)	● (DVD-Video: 30-Disc/DVD-VR: On Library)
Number of Titles		200	99
TUNER			
MTS Decoder		●	
Channel Storage		181 ch	
Plug & Play		●	
TIMER			
Timer Program		Approx. 100-Program	
EPG		● (TVGOS '04)	
Permanent Program Memory		●	
TERMINALS			
Front	S-Video In	●	
	Composite In	●	
	Audio L/R In	●	
Rear	Component Out	●	
	S-Video In/Out	●/●	
	Composite In /Out	●/●	
	Audio L/R In/Out	●/●	
	Coaxial Digital Out	●	
HDMI Digital Output		● (1080i/720p Up-Conversion)*	
DV In/Out		●/-	
G-LINK	ϕ3.5 Mini	● (For G-Link and Cable)	
DBS Control	ϕ3.5 Mini	●	
GENERAL			
On-Screen Display	GUI (Graphical User Interface)	●	
	On-Screen Language	English/French/Spanish	
Multi-Brand Remote		●	
Power Backup Time		5 Sec.	
Dimensions (W x H x D)	inches	$17^{3}/_{16}$ x $2^{15}/_{16}$ x $11^{13}/_{16}$	
	mm	435 x 70 x 300	
Weight	lbs.		
	kg		
Power Requirements		AC 120V/60Hz	
Power Consumption	Power On		
	Standby		

DVD-RAM cartridges not supported.

Notice: The non-DVD side of a "DualDisc" does not comply with the "Compact Disc Digital Audio" standard. Therefore, use of the non-DVD side of a DualDisc on these products is not recommended.

* Available during HDD/DVD playback without simultaneous recording or dubbing.

DVD Video Recorder & VHS Hi-Fi Stereo Video Recorder Combo

		DR-MV5SUS	
		DVD	VHS
MECHANISM/SERVO			
Playable Formats	DVD-Video	●	
	DVD-RAM/-RW (VR & Video)/-R/+RW/+R	●/●/●/●/●	
	SVCD/VCD	●/●	
	CD-DA	●	
	CD-R/RW	●	
	MP3 on CD-R/RW	●	
	JPEG on CD-R/RW	●	
Recordable Formats	DVD-RAM/-RW (VR & Video)/-R (Video)	●/●/●	
PAL Playback on NTSC TV		●	
AUDIO			
Output Level		2.0V RMS	
Recording Audio Format		Dolby Digital/Linear PCM (XP Mode Only)	VHS Hi-Fi
Audio D/A Converter		192kHz/24-bit	
Dolby Digital/DTS/MPEG Digital Out		●/●/●	
VIDEO			
Horizontal Resolution (Recording and Playback: XP/SP)		Approx. 500 Lines	
Recording Video Format		NTSC MPEG-2	NTSC
Recording Time (Approx.)	XP	1 Hour	
	SP	2 Hours	2 Hours (T-120 Tape)
	LP	4 Hours	
	EP	6 Hours	6 Hours (T-120 Tape)
	FR	1-8 Hours (63-Step)	
Video D/A Converter		10-bit/54MHz	
Progressive Scan Output	Film Source	Digital Direct Progressive Scan	
	Video Source	Motion Active Progressive Scan	
Frame Synchronizer		●	
Motion Active Noise Reduction		●	
Live Memory		● (DVD-RAM)	
Active Video Calibration			●
Auto 16:9 Record & Playback		●	
EDITING/DUBBING			
One-Touch Dubbing (DVD↔VHS)		●	
One-Touch Expert Dubbing (VHS→DVD)		●	
Auto Blank-Cut Dubbing (VHS→DVD)		●	
Auto Thumbnail Creation Dubbing (VHS→DVD)		●	
Auto Recording Mode Optimizer (VHS→DVD)		●	
PLAYBACK FUNCTION			
Library Database DVD Navigation		●	
Animated Thumbnail on DVD Navigation		● (DVD-RAM/DVD-RW VR)	
Variable Search (Forward/Reverse)		±4 Steps	±2 Steps
Variable Slow (Forward/Reverse)		±3 Steps	+1 Steps
Natural Reverse Playback (-1x)		●	
Quick Skip (30-Sec. FWD Skip)		●	
One-Touch Replay		● (7 Sec.)	
Resume Function		● (DVD-Video: 30-Disc)	
Number of Titles		99	
SQPB			●
Picture Control			NORM/EDIT/SOFT/SHARP
FF/REW Speed			140 Sec. (T-120 Tape)
Next Function Memory			REW→PLAY, EJECT
TUNER			
MTS Decoder		●	
Channel Storage		181 ch	
Plug & Play		●	
TIMER			
Timer Program		1Month/8-Program	1-Month/8-Program
VCR Plus+		●	
Rec Link		●	
On-Disc Timer Programming		● (DVD-RAM/DVD-RW VR)	
Permanent Program Memory		●	
TERMINALS			
Front	S-Video In	●	
	Composite In	●	
	Audio L/R In	●	
Rear	Component Out	●	
	S-Video In/Out	●/●	
	Composite In/Out	●/●	
	Audio L/R In/Out	●/●	
	Coaxial Digital Out	●	
DV In/Out		●/-	
GENERAL			
On-Screen Display	GUI (Graphical User Interface)	●	
	On-Screen Language	English/French/Spanish	
Multi-Brand Remote		●	
Power Backup Time		5 Sec.	
Dimensions (W x H x D)	inches	$17^{3}/_{16}$ x $3^{13}/_{16}$ x $13^{9}/_{16}$	
	mm	435 x 96 x 344	
Weight	lbs.	11.9	
	kg	5.4	
Power Requirements		AC 120V/60Hz	
Power Consumption	Power On	39W	
	Standby	3.5W	

DVD-RAM cartridges not supported.

Notice: The non-DVD side of a "DualDisc" does not comply with the "Compact Disc Digital Audio" standard. Therefore, use of the non-DVD side of a DualDisc on these products is not recommended.

DVD-RAM/-RW/-R Video Recorder

		DR-M100SUS
MECHANISM/SERVO		
Playable Formats	DVD-Video	●
	DVD-RAM/-RW (VR & Video)/-R/+RW/+R	●/●/●/-/-
	SVCD/VCD	●/●
	CD-DA	●
	CD-R/RW	●
	MP3 on CD-R/RW	●
	JPEG on CD-R/RW	●
Recordable Formats	DVD-RAM/-RW (VR & Video)/-R (Video)	●/●/●
PAL Playback on NTSC TV		●
AUDIO		
Output Level		2.0V RMS
Recording Audio Format		Dolby Digital/Linear PCM (XP Mode Only)
Audio D/A Converter		192kHz/24-bit
Dolby Digital/DTS/MPEG Digital Out		●/●/●
VIDEO		
Horizontal Resolution (Recording and Playback: XP/SP)		Approx. 500 Lines
Recording Video Format		NTSC MPEG-2
Recording Time (Approx.)	XP	1 Hour
	SP	2 Hours
	LP	4 Hours
	EP	6 Hours
	FR	1-8 Hours (63-Step)
Video D/A Converter		10-bit/54MHz
Progressive Scan Output	Film Source	Digital Direct Progressive Scan
	Video Source	Motion Active Progressive Scan
Frame Synchronizer		●
Motion Active Noise Reduction		●
Live Memory		● (DVD-RAM)
Auto 16:9 Record & Playback		●
PLAYBACK FUNCTION		
Library Database DVD Navigation		●
Animated Thumbnail on DVD Navigation		● (DVD-RAM/DVD-RW VR)
Variable Search (Forward/Reverse)		±4 Steps
Variable Slow (Forward/Reverse)		±3 Steps
Natural Reverse Playback (-1x)		●
Quick Skip (30-Sec. FWD Skip)		●
One-Touch Replay		● (7 Sec.)
Resume Function		● (DVD-Video: 30-Disc)
Number of Titles		99
TUNER		
MTS Decoder		●
Channel Storage		181 ch
Plug & Play		●
TIMER		
Timer Program		1-Month/8-Program
VCR Plus+		●
Rec Link		●
On-Disc Timer Programming		● (DVD-RAM/DVD-RW VR)
Permanent Program Memory		●
TERMINALS		
Front	S-Video In	●
	Composite In	●
	Audio L/R In	●
Rear	Component Out	●
	S-Video In/Out	●/●
	Composite In/Out	●/●
	Audio L/R In/Out	●/●
	Coaxial Digital Out	●
DV In/Out		●/-
GENERAL		
On-Screen Display	GUI (Graphical User Interface)	●
	On-Screen Language	English/French/Spanish
Remote Control		●
Power Backup Time		5 Sec.
Dimensions (W x H x D)	inches	$17^{3}/_{16}$ x $2^{13}/_{16}$ x $11^{13}/_{16}$
	mm	435 x 70 x 300
Weight	lbs.	7.5
	kg	3.4
Power Requirements		AC 120V/60Hz
Power Consumption	Power On	30W
	Standby	3.4W

DVD-RAM cartridges not supported.

Notice: The non-DVD side of a "DualDisc" does not comply with the "Compact Disc Digital Audio" standard. Therefore, use of the non-DVD side of a DualDisc on these products is not recommended.

DVD Audio/Video Players

			XV-N512S/XV-N510B	XV-N422S/XV-N420B	XV-N322S/XV-N320B	XV-NP10S
MECHANISM/SERVO						
Type			Single	Single	Single	Single
Playable Formats	DVD-Audio		●			
	DVD-Video		●	●	●	●
	DVD-RAM		●			
	DVD-RW		● (VR & Video)	●	●	●
	DVD-R		●	●	●	●
	CD		●	●	●	●
	SVCD/VCD		●/●	●/●	●/●	●/●
	CD-R/RW		●	●	●	●
	WMA		●	●		●
	MP3		●	●	●	●
	JPEG		●	●	●	●
	MPEG-4					● (ASP)
	DivX®*					●
	Memory Card					● (6)
Express Play Start			●	●	●	●
Rolling Pickup			●	●	●	●
Illuminated Disc Tray (with Dimmer Control)				●		
PAL Playback on NTSC TV			●	●	●	●
AUDIO						
Total Harmonic Distortion	16-bit		0.006%	Less than 0.009%	Less than 0.009%	0.007%
	20/24-bit		0.005%			
Dynamic Range	16-bit		98dB			98dB
	20/24-bit		106dB			100dB
Frequency Response	CD (fs=44.1kHz)		2Hz - 20kHz	2Hz - 20kHz	2Hz - 20kHz	2Hz - 20kHz
	DVD (fs=48kHz)		2Hz - 22kHz	2Hz - 22kHz	2Hz - 22kHz	2Hz - 22kHz
	DVD (fs=96kHz)		2Hz - 44kHz	2Hz - 44kHz	2Hz - 44kHz	2Hz - 44kHz
	DVD (fs=192kHz)		2Hz - 88kHz			
Output Level			2.0V RMS	2.0V RMS	2.0V RMS	2.0V RMS
Audio D/A Converter			192kHz/24-bit	192kHz/24-bit	192kHz/24-bit	192kHz/24-bit
Dolby Digital/DTS Decoder Built-in			●			
Dolby Digital/DTS Digital Out			●	●	●	●
DTS Analog 2ch Downmix Out			●			●
Sound Effect			● (3D PHONIC)	●	●	●
VIDEO						
Horizontal Resolution			500 Lines	500 Lines	500 Lines	500 Lines
Output Level	Component	Y	1.0Vp-p/75 ohms	1.0Vp-p/75 ohms	1.0Vp-p/75 ohms	1.0Vp-p/75 ohms
		P_B/P_R	0.7Vp-p/75 ohms	0.7Vp-p/75 ohms	0.7Vp-p/75 ohms	0.7Vp-p/75 ohms
	S-Video	Y	1.0Vp-p/75 ohms	1.0Vp-p/75 ohms	1.0Vp-p/75 ohms	1.0Vp-p/75 ohms
		C	0.3Vp-p/75 ohms	0.3Vp-p/75 ohms	0.3Vp-p/75 ohms	0.3Vp-p/75 ohms
	Composite		1.0Vp-p/75 ohms	1.0Vp-p/75 ohms	1.0Vp-p/75 ohms	1.0Vp-p/75 ohms
Digital Direct Progressive Scan Output (NTSC)			●	●	●	●
Ultra-High Performance 1-Chip AV Decoder			●			
Adaptive Geometrical Chroma Mapping			●			
Video D/A Converter			12-bit/108MHz	10-bit/54MHz	10-bit/54MHz	10-bit/54MHz
DigiPure			●			
VFP (Video Fine Processor)	Number of Parameters		8	7	7	7
	Number of Presets (Presets 2/Manual 2)		●	●	●	●
Vari-Play (Variable-Speed Playback with Sound & Subtitle) (1.5x/1.2x/1.0x/0.8x/0.6x)				● (4 Steps)	● (4 Steps)	
1.5x Quick Playback with Sound			●	●	●	●
Variable Search (Forward/Reverse)			●	●	●	●
Variable Slow (Forward/Reverse)			●	●	●	●
Disc Memory Resume Function			● (30 Discs)	● (10 Discs)	● (10 Discs)	● (30 Discs)
Resume (Bookmark) Function			●	●	●	●
Zoom Play			● (6 Steps)	● (3 Steps)	● (3 Steps)	● (3 Steps)
One-Touch Replay (10 Sec.)			●	●	●	●
TERMINALS						
Video Out	Component		●	●	●	●
	S-Video		●	●	●	●
	Composite		●	●	●	●
Audio Out	Front L/R		●	●	●	●
	Center, Surround L/R, Subwoofer		●			
	Optical Digital Out		●			●
	Coaxial Digital Out		●	●	●	●
AV COMPU LINK			●	●		●
GENERAL						
On-Screen Display	GUI (Graphical User Interface)		●	●	●	●
	On-Screen Language		Eng./Fre./Spa.	Eng./Fre./Spa.	Eng./Fre./Spa.	Eng./Fre./Spa.
	Numerical Bit-Rate Indicator		●	●	●	●
	Language Indicator		●	●	●	●
	Screen Saver		●	●	●	●
Remote			●	●	●	●
	Multi-Brand		●			●
Dimensions (W x H x D)	inches		$17^{3}/_{16}$ x $1^{3}/_{4}$ x $10^{3}/_{16}$	$17^{3}/_{16}$ x $1^{3}/_{4}$ x 8	$17^{3}/_{16}$ x $1^{3}/_{4}$ x 8	$17^{3}/_{16}$ x $17/_{8}$ x $10^{3}/_{16}$
	mm		435 x 44 x 259	435 x 44 x 202	435 x 44 x 202	435 x 47 x 259
Weight	lbs.		4.2	3.3	3.3	4.4
	kg		1.9	1.5	1.5	2.0
Power Requirements			AC 120V/60Hz	AC 110-240V / 50/60Hz	AC 120V/60Hz	AC 120V/60Hz
Power Consumption	Power On		13.0W	11.0W	11.0W	10.0W
	Standby		2.0W	1.0W	1.0W	1.1W

* Plays DivX®5, DivX®4, DivX®3, and DivX® VOD video content.

Notice: The non-DVD side of a "DualDisc" does not comply with the "Compact Disc Digital Audio" standard. Therefore, use of the non-DVD side of a DualDisc on these products is not recommended.

D-VHS Recorders

		HM-DT100	HM-DH5
MECHANISM/SERVO			
Head Configuration	D-VHS	5 Head	5 Head
	VHS	DA-4 + Hi-Fi Audio 2 Head	DA-4 + Hi-Fi Audio 2 Head
AUDIO			
Recording Audio Format	D-VHS	Linear PCM or MPEG-1	Linear PCM or MPEG-1
	VHS	Hi-Fi	Hi-Fi
Dolby Digital/DTS/MPEG Digital Out		●/●/● (D-VHS)	●/●/● (D-VHS)
VIDEO			
Recording Video Format	D-VHS	DVB Standard MPEG-2 TS	DVB Standard MPEG-2 TS
	VHS	NTSC S-VHS/VHS	NTSC S-VHS/VHS
S-VHS ET Recording		● (S-VHS)	● (S-VHS)
Recording Time (Approx.)*	HS	4 hours (28.2 Mbps) (D-VHS)	4 hours (28.2 Mbps) (D-VHS)
	STD	8 hours (14.1 Mbps) (D-VHS)	8 hours (14.1 Mbps) (D-VHS)
	LS3	24 hours (4.7 Mbps) (D-VHS)	24 hours (4.7 Mbps) (D-VHS)
Recording and Playback Speeds**	D-VHS	LS3/STD/HS/LP/EP/SP	LS3/STD/HS/LP/EP/SP
	VHS	SP/EP	SP/EP
Motion Active Progressive Scan Output		● (S-VHS/VHS)	● (S-VHS/VHS)
Super MPEG Encode Pre-Processor	Time Base Corrector	● (S-VHS/VHS)	● (S-VHS/VHS)
	Frame Synchronizer	● (S-VHS/VHS)	● (S-VHS/VHS)
	Motion Active Noise Reduction	● (S-VHS/VHS)	● (S-VHS/VHS)
DigiPure Technology		● (S-VHS/VHS)	● (S-VHS/VHS)
	Frame Memory	Over 4MB	Over 4MB
A.V. Calibration		● (S-VHS/VHS)	● (S-VHS/VHS)
PLAYBACK FUNCTION			
Navigation	D-VHS	● (Chapter)	● (Chapter)
	VHS	Over 1000 Titles	Over 1000 Titles
Variable Search (Forward/Reverse)		● (S-VHS/VHS)	● (S-VHS/VHS)
Variable Slow (Forward/Reverse)		±1/6 (S-VHS/VHS)	±1/6 (S-VHS/VHS)
Shuttle Search		SP 11x, EP 31x, HS 6x, STD 12x, LS3 36x	SP 11x, EP 31x, HS 6x, STD 12x, LS3 36x
Index Search		● (D-VHS/S-VHS/VHS)	● (D-VHS/S-VHS/VHS)
Skip Search		● (D-VHS/S-VHS/VHS)	● (D-VHS/S-VHS/VHS)
Repeat Playback (up to 50x)		● (except LS3)	● (except LS3)
Picture Control		● (AUTO/EDIT/SOFT/SHARP) (S-VHS/VHS)	● (AUTO/EDIT/SOFT/SHARP) (S-VHS/VHS)
FF/REW Speed		About 65 Sec.	About 65 Sec.
Next Function Memory		REW→OFF, PLAY, TIMER, EJECT (D-VHS/S-VHS/VHS)	REW→OFF, PLAY, TIMER, EJECT (D-VHS/S-VHS/VHS)
TUNER			
Built-in ATSC Tuner		● (D-VHS/S-VHS/VHS)	
Broadcast Standard		M (D-VHS/S-VHS/VHS)	M (D-VHS/S-VHS/VHS)
Stereo Decoder		MTS (D-VHS/S-VHS/VHS)	MTS (D-VHS/S-VHS/VHS)
Channel Storage		181 ch + ATSC Max. 250 ch (D-VHS/S-VHS/VHS)	181 ch (D-VHS/S-VHS/VHS)
Plug & Play		● (D-VHS/S-VHS/VHS)	● (D-VHS/S-VHS/VHS)
TIMER			
Timer Program		1-Year/24-Program (D-VHS/S-VHS/VHS)	1-Year/24-Program (D-VHS/S-VHS/VHS)
Express Programming		● (D-VHS/S-VHS/VHS)	● (D-VHS/S-VHS/VHS)
VCR Plus+		● (VCR+ C3 w/ Cable Box Control)	● (VCR+ C3 w/ Cable Box Control)
Rec Link		● (D-VHS)	● (D-VHS)
Permanent Program Memory		● (D-VHS/S-VHS/VHS)	● (D-VHS/S-VHS/VHS)
EPG		● (via ATSC) (D-VHS/S-VHS/VHS)	
TERMINALS			
Front	S-Video In	● (D-VHS/S-VHS/VHS)	● (D-VHS/S-VHS/VHS)
	Audio L/R In	● (D-VHS/S-VHS/VHS)	● (D-VHS/S-VHS/VHS)
Rear	Component Out	● (D-VHS/S-VHS/VHS)	● (D-VHS/S-VHS/VHS)
	S-Video In/Out	● x 2/● x 2 (D-VHS/S-VHS/VHS)	● x 2/● x 2 (D-VHS/S-VHS/VHS)
	Audio L/R In/Out	● x 2/● x 2 (D-VHS/S-VHS/VHS)	● x 2/● x 2 (D-VHS/S-VHS/VHS)
	Optical Digital Out	● (D-VHS/S-VHS/VHS)	● (D-VHS/S-VHS/VHS)
	HDMI™	● (with HDCP) (D-VHS/S-VHS/VHS)	● (with HDCP) (D-VHS/S-VHS/VHS)
i.LINK	In/Out	4-pin, DTCP Compatible DVB Standard MPEG-2 TS	4-pin, DTCP Compatible DVB Standard MPEG-2 TS
	In	DV x 2 (including front)	DV x 2 (including front)
RS-232C Connectable JLIP		● (D-VHS/S-VHS/VHS)	● (D-VHS/S-VHS/VHS)
AV Compu Link		● (D-VHS/S-VHS/VHS)	● (D-VHS/S-VHS/VHS)
GENERAL			
On-Screen Display	On-Screen Language	Eng. (D-VHS/S-VHS/VHS)	Eng. (D-VHS/S-VHS/VHS)
Multi-Brand Remote		● (Glow)	● (Glow)
Power Backup Time		10 Min.	10 Min.
Power Requirements		AC 120V/60Hz	AC 120V/60Hz
Power Consumption	Power On	45W	45W
	Standby	14W	14W
Dimensions (W x H x D)	in.	$17^{3}/_{16}$ x $3^{13}/_{16}$ x $15^{1}/_{8}$	$17^{3}/_{16}$ x $3^{13}/_{16}$ x $14^{13}/_{16}$
	mm	435 x 96 x 383	435 x 96 x 376
Weight	lbs.	12.8	11.2
	kg	5.8	5.1

* Using DF-480 cassette

** LP/EP mode recording and playback is not available for Super VHS ET.

MiniDV/Super VHS Hi-Fi Stereo Video Cassette Recorder

		HR-DVS3
MECHANISM/SERVO		
Head Configuration	MiniDV	Sx2
	VHS	DA-4 + Hi-Fi Audio 2 Head
AUDIO		
Recording Audio Format	MiniDV	PCM Digital
	VHS	Hi-Fi
Audio Dubbing		● (MiniDV/VHS)
VIDEO		
Recording Video Format	MiniDV	Digital
	VHS	NTSC S-VHS/VHS
S-VHS ET Recording		● (VHS)
Recording and Playback Speeds*		SP/EP (LP) (MiniDV/VHS)
DigiPure Technology		● (VHS)
	Frame Memory	2MB (VHS)
A.V. Calibration		● (VHS)
EDITING/DUBBING		
Insert Editing		● (MiniDV/VHS)
Assemble Editing		● (MiniDV→S-VHS/VHS)
One-Touch Dubbing		● (MiniDV↔S-VHS/VHS)
DV-to-DV Dubbing		● (MiniDV↔MiniDV)
PLAYBACK FUNCTION		
Variable Search (Forward/Reverse)	MiniDV	2 Steps
	VHS	●
Variable Slow (Forward/Reverse)	MiniDV	±1/10
	VHS	±1/6, ±1/18
Shuttle Search	MiniDV	SP, LP 9.5x
	VHS	SP 11x, EP 31x
Index Search		● (VHS)
Repeat Playback (up to 100x)		● (VHS)
Picture Control		● (AUTO/EDIT/SOFT/SHARP) (VHS)
FF/REW Speed		100 Sec. (MiniDV/VHS)
Next Function Memory		REW→OFF, PLAY, TIMER, EJECT (MiniDV/VHS)
TUNER		
Broadcast Standard		M (MiniDV/VHS)
Stereo Decoder		MPX (MiniDV/VHS)
Channel Storage		181 ch (MiniDV/VHS)
Plug & Play		● (MiniDV/VHS)
TIMER		
Timer Program		1-Year/6-Program (MiniDV/VHS)
Express Programming		● (MiniDV/VHS)
VCR Plus+		● (MiniDV/VHS)
TERMINALS		
Front	Composite Video In	● (VHS)
	S-Video In	● (VHS)
	Audio L/R In	● (VHS)
	i.LINK	● (MiniDV)
Rear	Composite Video Out	● x 2 (MiniDV/VHS)
	S-Video Out	● x 2 (MiniDV/VHS)
	Audio L/R In/Out	-/● x 2 (MiniDV/VHS)
GENERAL		
On-Screen Display	On-Screen Language	3 Languages (Eng./Spa./Fre.)
Multi-Brand Remote		●
Jog/Shuttle on Deck		Advanced Jog
Power Requirements		AC 120V/60Hz
Power Consumption	Power On	31W
	Standby	6.5W
Dimensions (W x H x D)	in.	$17^{3}/_{16}$ x $4^{3}/_{16}$ x 15
	mm	435 x 106 x 380
Weight	lbs.	11.2
	kg	5.1

* LP/EP mode recording and playback is not available for Super VHS ET.

DVD Video Player & VHS Hi-Fi Stereo Video Recorder Combos

		HR-XVC37	HR-XVC29S	HR-XVC28B
MECHANISM/SERVO				
Head Configuration		DA-4 + Hi-Fi Audio 2 Head	DA-4 + Hi-Fi Audio 2 Head	DA-4 + Hi-Fi Audio 2 Head
Playable Formats	DVD-Video	● (DVD)	● (DVD)	● (DVD)
	DVD-RW (VIDEO Format)	● (DVD)	● (DVD)	● (DVD)
	DVD-R (VIDEO Format)	● (DVD)	● (DVD)	● (DVD)
	SVCD	● (DVD)	● (DVD)	● (DVD)
	VCD	● (DVD)	● (DVD)	● (DVD)
	CD-DA	● (DVD)	● (DVD)	● (DVD)
	CD-R/RW	● (DVD)	● (DVD)	● (DVD)
	MP3 on CD-R/RW	● (DVD)		
	JPEG on CD-R/RW	● (DVD)	● (DVD)	● (DVD)
AUDIO				
Recording Audio Format		Hi-Fi (VHS)	Hi-Fi (VHS)	Hi-Fi (VHS)
Audio D/A Converter		192kHz/24-bit (DVD)	192kHz/24-bit (DVD)	192kHz/24-bit (DVD)
Dolby Digital/DTS/MPEG Digital Out		●/●/● (DVD)	●/●/● (DVD)	●/●/● (DVD)
Sound Effect		3D-PHONIC (DVD)	● (DVD)	● (DVD)
VIDEO				
Recording Video Format		NTSC VHS (VHS)	NTSC VHS (VHS)	NTSC VHS (VHS)
Recording and Playback Speeds*		SP/EP (VHS)	SP/EP (VHS)	SP/EP (VHS)
Video D/A Converter		10-bit/54MHz (DVD)	10-bit/54MHz (DVD)	10-bit/54MHz (DVD)
Digital Direct Progressive Scan Output		● (DVD)	● (DVD)	● (DVD)
VHS Progressive Scan Output		● (VHS)		
Ultra-High Performance 1-Chip AV Decoder		● (DVD)	● (DVD)	● (DVD)
Adaptive Geometrical Chroma Mapping		● (DVD)	● (DVD)	● (DVD)
PLAYBACK FUNCTION				
Variable Search	DVD	±4x Steps	±4x Steps	±4x Steps
(Forward/Reverse)	VHS	±2x Steps	±2x Steps	±2x Steps
Variable Slow	DVD	±1/2, ±1/4, ±1/16, ±1/32	±1/2, ±1/4, ±1/16	±1/2, ±1/4, ±1/16
(Forward/Reverse)	VHS	+1/6	+1/6	+1/6
Shuttle Search		SP 7x, EP 21x (VHS)	SP 7x, EP 21x (VHS)	SP 7x, EP 21x (VHS)
Index Search		● (VHS)	● (VHS)	● (VHS)
Skip Search		● (VHS)	● (VHS)	● (VHS)
One-Touch Replay	DVD		● (10 Sec.)	● (10 Sec.)
	VHS		● (7 Sec.)	● (7 Sec.)
Multi-Session CD Playback		● (DVD)	● (DVD)	● (DVD)
Repeat Playback (up to 100x)		● (VHS)	● (VHS)	● (VHS)
DVD/VHS Auto Select			● (DVD/VHS)	● (DVD/VHS)
Resume Function			● (DVD)	● (DVD)
SQPB (S-VHS Quasi Playback)		● (VHS)	● (VHS)	● (VHS)
Picture Control		● (NORM/EDIT/SOFT/SHARP) (VHS)	● (NORM/EDIT/SOFT/SHARP) (VHS)	● (NORM/EDIT/SOFT/SHARP) (VHS)
FF/REW Speed		140 Sec. (VHS)	140 Sec. (VHS)	140 Sec. (VHS)
Next Function Memory		REW→OFF, PLAY, TIMER, EJECT (VHS)	REW→OFF, PLAY, TIMER, EJECT (VHS)	REW→OFF, PLAY, TIMER, EJECT (VHS)
TUNER				
Broadcast Standard		M (VHS)	M (VHS)	M (VHS)
Stereo Decoder		MTS (VHS)	MTS (VHS)	MTS (VHS)
Channel Storage		181 ch (VHS)	181 ch (VHS)	181 ch (VHS)
Plug & Play		● (VHS)	● (VHS)	● (VHS)
TIMER				
Timer Program		1-Year/8-Program (VHS)	1-Year/8-Program (VHS)	1-Year/8-Program (VHS)
Express Programming		● (VHS)	● (VHS)	● (VHS)
Rec Link		● (VHS)	● (VHS)	● (VHS)
Permanent Program Memory		● (DVD/VHS)	● (DVD/VHS)	● (DVD/VHS)
TERMINALS				
Front	Composite Video In	● (VHS)	● (VHS)	● (VHS)
	Audio L/R In	● (VHS)	● (VHS)	● (VHS)
Rear	Component Out	● (DVD/VHS)	● (DVD)	● (DVD)
	Composite Video Out		● (DVD/VHS)	● (DVD/VHS)
	Audio L/R In/Out		-/● (DVD/VHS)	-/● (DVD/VHS)
	DVD Audio Out	● (DVD/VHS)		
	DVD Video Out	● (DVD/VHS)		
	Optical Digital Out	● (DVD)		
	Coaxial Digital Out	● (DVD)	● (DVD)	● (DVD)
GENERAL				
On-Screen Display	On-Screen Language	3 Languages (Eng./Spa./Fre.)	3 Languages (Eng./Spa./Fre.)	3 Languages (Eng./Spa./Fre.)
Newly Designed Remote			●	●
Power Backup Time		5 Sec.		
Power Requirements		AC 120V/60Hz	AC 120V/60Hz	AC 120V/60Hz
Power Consumption	Power On	26W	25W	25W
	Standby	2W	2W	2W
Dimensions (W x H x D)	in.	$17^{3}/_{16}$ x $3^{11}/_{16}$ x $10^{3}/_{4}$	$17^{3}/_{16}$ x $3^{11}/_{16}$ x $10^{3}/_{4}$	$17^{3}/_{16}$ x $3^{11}/_{16}$ x $10^{3}/_{4}$
	mm	435 x 93 x 272	435 x 93 x 272	435 x 93 x 272
Weight	lbs.	9	9	9
	kg	4.1	4.1	4.1

* LP/EP mode recording and playback is not available for Super VHS ET.

Super VHS Hi-Fi Stereo Video Cassette Recorders

		HR-S9911	HR-S5912	HR-S5902	HR-S3912	HR-S3902	HR-S2902
MECHANISM/SERVO							
Head Configuration		DA-4 + Hi-Fi Audio 2 Head	DA-4 + Hi-Fi Audio 2 Head	DA-4 + Hi-Fi Audio 2 Head	DA-4 + Hi-Fi Audio 2 Head	DA-4 + Hi-Fi Audio 2 Head	DA-4 + Hi-Fi Audio 2 Head
AUDIO							
Recording Audio Format		Hi-Fi	Hi-Fi	Hi-Fi	Hi-Fi	Hi-Fi	Hi-Fi
VHS Hi-Fi Stereo		●	●	●	●	●	●
Audio Dubbing		●	●	●			
VIDEO							
Recording Video Format		NTSC S-VHS/VHS	NTSC S-VHS/VHS	NTSC S-VHS/VHS	NTSC S-VHS/VHS	NTSC S-VHS/VHS	NTSC S-VHS/VHS
S-VHS ET Recording		●	●	●	●	●	●
Recording and Playback Speeds*		SP/EP	SP/EP	SP/EP	SP/EP	SP/EP	SP/EP
DigiPure Technology	Frame Memory	4MB					
A.V. Calibration		●	●	●	●	●	●
EDITING/DUBBING							
Insert Editing		●	●	●			
Assemble Editing		●	●	●	A.F.E.	A.F.E.	A.F.E.
PLAYBACK FUNCTION							
Video Navigation		2000 Titles					
Variable Search (Forward/Reverse)		●	●	●	●	●	●
Variable Slow (Forward/Reverse)		+1/2, ±1/6, ±1/18 (Digital)	±1/6	±1/6	±1/6	±1/6	±1/6
Shuttle Search		SP 11x, EP 31x	SP 7x, EP 21x	SP 7x, EP 21x	SP 7x, EP 21x	SP 7x, EP 21x	SP 7x, EP 21x
Index Search		●	●	●	●	●	●
Skip Search		●	●	●	●	●	●
Repeat Playback (up to 100x)		●	●	●	●	●	●
Picture Control		● (AUTO/EDIT/SOFT/SHARP)	● (AUTO/EDIT/SOFT/SHARP)	● (AUTO/EDIT/SOFT/SHARP)	● (AUTO/EDIT/SOFT/SHARP)	● (AUTO/EDIT/SOFT/SHARP)	● (AUTO/EDIT/SOFT/SHARP)
FF/REW Speed		75 Sec.	140 Sec.	140 Sec.	140 Sec.	140 Sec.	140 Sec.
Next Function Memory		REW→OFF, PLAY, TIMER, EJECT	REW→OFF, PLAY, TIMER, EJECT	REW→OFF, PLAY, TIMER, EJECT	REW→OFF, PLAY, TIMER, EJECT	REW→OFF, PLAY, TIMER, EJECT	REW→OFF, PLAY, TIMER, EJECT
TUNER							
Broadcast Standard		M	M	M	M	M	M
Stereo Decoder		MTS	MTS	MTS	MTS	MTS	MTS
Channel Storage		181 ch	181 ch	181 ch	181 ch	181 ch	181 ch
Plug & Play		●	●	●	●	●	●
TIMER							
Timer Program		1-Year/8-Program	1-Year/8-Program	1-Year/8-Program	1-Year/8-Program	1-Year/8-Program	1-Year/8-Program
Express Programming		●	●	●	●	●	●
VCR Plus+		● (VCR+ C3 w/ Cable Box Control)	● (VCR+ C3 w/ Cable Box Control)	● (VCR+ C3 w/ Cable Box Control)	● (VCR+ C3 w/ Cable Box Control)	● (VCR+ C3 w/ Cable Box Control)	
Rec Link		●	●	●	●	●	
Permanent Program Memory		●	●	●	●	●	●
TERMINALS							
Front	Composite Video In	●	●	●	●	●	●
	S-Video In	●	●	●	●	●	●
	Audio L/R In	●	●	●	●	●	●
Rear	Composite Video Out	●	●	●	●	●	●
	S-Video In/Out	●/●	●/●	●/●	●/●	●/●	-/●
	Audio L/R In/Out	●/●	●/●	●/●	●/●	●/●	-/●
	J-Terminal	●					
GENERAL							
On-Screen Display	On-Screen Language	3 Languages (Eng./Spa./Fre.)	3 Languages (Eng./Spa./Fre.)	3 Languages (Eng./Spa./Fre.)	3 Languages (Eng./Spa./Fre.)	3 Languages (Eng./Spa./Fre.)	3 Languages (Eng./Spa./Fre.)
Multi-Brand Remote		●	● (Glow)	● (Glow)	●	●	
Jog/Shuttle on Deck		Advanced Jog	Advanced Jog	Advanced Jog	Advanced Jog	Advanced Jog	
Power Backup Time		3 Min.					
Power Requirements		AC 120V/60Hz	AC 120V/60Hz	AC 120V/60Hz	AC 120V/60Hz	AC 120V/60Hz	AC 120V/60Hz
Power Consumption	Power On	26W	16W	16W	16W	16W	16W
	Standby	2.5W	1.5W	1.5W	1.5W	1.5W	1.5W
Dimensions (W x H x D)	in.	$17^{3}/_{16}$ x $4^{7}/_{16}$ x $13^{9}/_{16}$	$17^{3}/_{16}$ x $3^{3}/_{4}$ x $9^{9}/_{16}$	$17^{3}/_{16}$ x $3^{3}/_{4}$ x $9^{9}/_{16}$	$17^{3}/_{16}$ x $3^{3}/_{4}$ x $9^{9}/_{16}$	$17^{3}/_{16}$ x $3^{3}/_{4}$ x $9^{9}/_{16}$	$17^{3}/_{16}$ x $3^{3}/_{4}$ x $9^{13}/_{16}$
	mm	435 x 105 x 343	435 x 94 x 242	435 x 94 x 242	435 x 94 x 242	435 x 94 x 242	435 x 94 x 248
Weight	lbs.	10.8	5.9	5.9	5.9	5.9	5.9
	kg	4.9	2.7	2.7	2.7	2.7	2.7

* LP/EP mode recording and playback is not available for Super VHS ET.

VHS Hi-Fi Stereo Video Cassette Recorder

		HR-J692
MECHANISM/SERVO		
Head Configuration		DA-4 + Hi-Fi Audio 2 Head
AUDIO		
Recording Audio Format		Hi-Fi
VHS Hi-Fi Stereo		●
VIDEO		
Recording Video Format		NTSC VHS
Recording and Playback Speeds*		SP/EP
PLAYBACK FUNCTION		
Variable Search (Forward/Reverse)		●
Variable Slow (Forward/Reverse)		±1/6, ±1/18
Shuttle Search		SP 5x, EP 7x
Index Search		●
Skip Search		●
Repeat Playback (up to 100x)		●
SQPB (S-VHS Quasi Playback)		●
Picture Control		● (NORM/EDIT/SOFT/SHARP)
FF/REW Speed		140 Sec.
Next Function Memory		REW→OFF, PLAY, TIMER, EJECT
TUNER		
Broadcast Standard		M
Stereo Decoder		MTS
Channel Storage		181 ch
Plug & Play		●
TIMER		
Timer Program		1-Year/8-Program
Express Programming		●
TERMINALS		
Front	Composite Video In	●
	Audio L/R In	●
Rear	Composite Video Out	●
	Audio L/R In/Out	-/●
GENERAL		
On-Screen Display	On-Screen Language	3 Languages (Eng./Spa./Fre.)
Power Requirements		AC 120V/60Hz
Power Consumption	Power On	13W
	Standby	1.5W
Dimensions (W x H x D)	in.	$17^{3}/_{16}$ x $3^{3}/_{4}$ x $9^{13}/_{16}$
	mm	435 x 94 x 248
Weight	lbs.	5.9
	kg	2.7

* LP/EP mode recording and playback is not available for Super VHS ET.

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Dianne Reeves


Ron Carter


Peter Cincotti


James Carter


Jamie Cullum


JVC Jazz Festival New York, Carnegie Hall

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