

## Specifications

General	
Power	DC 11V (AC adaptor), DC 7.2V (Battery)
Power consumption	Approx. 4.2W (when LCD monitor backlight is set to [LEVEL 3], 1920x1080/50i mode)
Dimensions	227 (W) x 232 (H) x 476 (D)mm (with battery)
Mass	Approx. 3.18kg (including two BN-VF823 batteries, SDHC card)*1
Operating temperature	0°C to 40°C
Storage temperature	-20°C to 50°C
Operating humidity	35% to 80%
Storage humidity	Under 85%
Camera	
Synchronising system	Internal synchronisation
Stabiliser	Optical Image Stabilisation with Enhanced Advanced Image Stabiliser
Lens	JVC HD GT LENS F1.2-2.8, f=3.76-37.6mm 35mm conversion: 29.9mm to 586mm*2
Zoom ratios	Optical 10x Dynamic 19x*2 Digital (max.) 200x
Focus	Auto/Manual
Filter diameter	46mm (screw pitch 0.75mm)
Image sensor	1/2.3" 18.9M pixels progressive scan 1CMOS Recording area: Video 7.94M to 2.07M pixels*2 Still image (16:9) 6.89M to 5.12M pixels*3 Still image (4:3) 9.18M to 6.82M pixels*3
Gain	OFF, ON, AUTO SLOW-SHUTTER
Minimum illumination	1 lx (GAIN UP: AUTO SLOW-SHUTTER mode, Shutter Speed 1/25)
Shutter speed	1/2 to 1/10000
Iris	F1.2-5.6
White balance	Auto, MWB, 5200K, 6000K, 3200K
High-speed video recording (for slow motion)	250 fps (fixed) (Resolution: 720 x 576)
Continuous shooting speed (during still image recording)	High: Approx. 12.5 images/sec. Medium: Approx. 6.25 images/sec. Low: Approx. 2 images/sec
LCD display	3.0" LCD 460K pixels, 16:9
Viewfinder	0.24" LCOS 260K pixels, 16:9
Internal microphone	2ch Stereo (with Zoom Microphone Function)

Video/Audio Recording	
Recording media	SDHC/SDXC (Class 4/6/10) Card, Memory Card Slots x 2
Recording format	[MOV] Video: MPEG-4 AVC/H.264, Audio: Linear PCM (2ch) [AVCHD] Video: MPEG-4 AVC/H.264, Audio: Dolby Digital (2ch)
Recording mode	<b>HD</b> MOV: 1920x1080/50p, 36Mbps VBR 50p: 1920x1080/50p, 27Mbps VBR UXP: 1920x1080/50i, 24Mbps VBR XP: 1920x1080/50i, 17Mbps VBR SP: 1920x1080/50i, 12Mbps VBR EP: 1920x1080/50i, 5Mbps VBR <b>SD</b> SSW (16:9): 720 x 576/50i, 6Mbps VBR SEW (16:9): 720 x 576/50i, 3Mbps VBR

Still Image Recording	
Recording media	SD/SDHC/SDXC Card
Recording format	JPEG

Interface	
Video output	RCA x 1 HDMI Connector (x.v.Colour compatible) x 1
Audio output	RCA x 2
Mic input	ø 3.5mm mini jack (stereo) x 1 (Plug in power)
Headphone	ø 3.5mm mini jack (stereo) x 1
USB	Mini USB Type AB, USB 2.0 compliant
Remote	ø 3.5mm mini jack x 1

**Accessories Provided**  
AC adapter (AP-V20), Battery pack (BN-VF823), Composite/audio cable (RCA x 3), USB cable, Application Software (CD-ROM)

\*1 Only one battery supplied, SDHC card not supplied

\*2 Image Stabiliser: OFF, Dynamic Zoom: ON

\*3 Image Stabiliser: OFF

### Optional Accessories



**BN-VF823**  
Battery

**AA-VF8**  
Battery Charger

**MZ-V10**  
Stereo Microphone

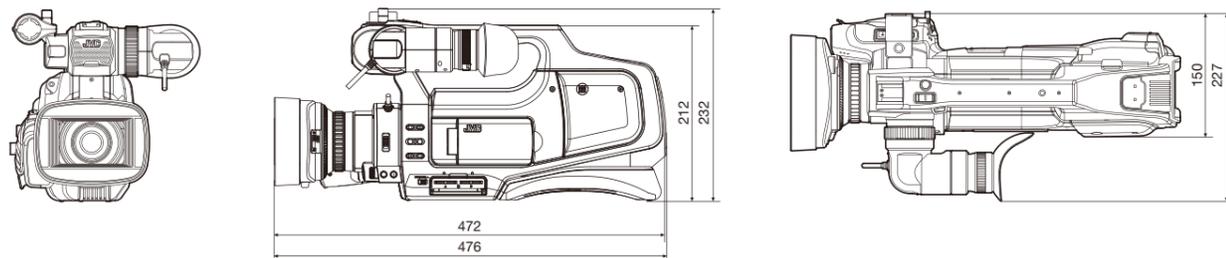
### SDHC (Class 4\*/6/10), SDXC Recording Time (approx.)

Resolution	1920 x 1080/50p			1920 x 1080/50i			720 x 576/50i		
	Mode	MOV	50p	UXP	XP	SP	EP	SSW	SEW
4GB		10min.	15min.	20min.	30min.	40min.	1hr. 40min.	1hr. 20min.	2hr. 50min.
8GB		25min.	35min.	40min.	1hr.	1hr. 20min.	3hr. 30min.	2hr. 40min.	5hr. 40min.
16GB		50min.	1hr. 10min.	1hr. 20min.	1hr. 50min.	2hr. 40min.	7hr.	5hr. 20min.	11hr. 10min.
32GB		1hr. 40min.	2hr. 30min.	2hr. 40min.	3hr. 50min.	5hr. 30min.	14hr.	10hr. 50min.	22hr. 30min.
64GB (SDXC)		3hr. 30min.	5hr.	5hr. 40min.	8hr. 10min.	11hr. 30min.	28hr. 50min.	22hr. 20min.	46hr. 10min.
128GB (SDXC)		7hr.	10hr. 10min.	11hr. 30min.	16hr. 20min.	23hr. 10min.	57hr. 50min.	44hr. 50min.	92hr. 40min.

\* Class 4 only corresponds with XP, SP, EP, SSW and SEW modes.

## Dimensions

Unit: mm



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Simulated pictures.

The values for weight and dimensions are approximate.  
E.&O.E. Design and specifications subject to change without notice.

# JVC

HD Memory Card Camera Recorder

# JY-HM90

## Performance that Pays



Shown with optional microphone MZ-V10

# JVC

DISTRIBUTED BY

**Full HD**  
1920x1080

AVCHD  
Progressive

SD  
XC

CLASS 10

CLASS 6

CLASS 4

**HDMI**  
HIGH-DEFINITION MULTIMEDIA INTERFACE



# Quality and Design to Get the Job Done in Style

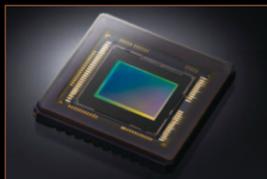
Count on high quality that more than pays for itself, assurances for worry-free operation, and results that will satisfy your customers. It's easy to do your best and look your best.



## Catch Every Moment with Brilliantly Stunning Detail



The dynamic 19x F1.2 Bright Lens delivers brilliant results in low light environments, so you can record weddings, social functions, or other special events without the need for additional lighting. Housed in the prominent lens barrel, the 29.9mm GT Lens was developed specifically to guarantee optimal performance with the 1/2.3-inch 18.9 Megapixel Back-illuminated CMOS sensor, yielding high resolution, high sensitivity, and excellent colour reproduction.



## Flexible Formats and Powerful 36Mbps MOV Recording



To accommodate the workflow flexibility demanded by professionals, the JY-HM90 is capable of recording in silky-smooth 36Mbps MOV Progressive 1920 x 1080 50p or AVCHD 1920 x 1080 50i Full HD resolution, as well as in standard definition. This virtually assures compatibility with your preferred codec in a variety of workflow scenarios, with MOV format providing the highest quality in certain post-production usages as its audio is recorded in non-compressed Linear PCM.

HD	[MOV]	1920 x 1080/50p, 36Mbps Video/96kHz 24bit Linear PCM Audio
	[AVCHD]	1920 x 1080/50p, 27Mbps, Dolby Digital (2ch) 1920 x 1080/50i, 24/17/12/5Mbps, Dolby Digital (2ch)
SD	[AVCHD]	720 x 576i, 6/3Mbps, Dolby Digital (2ch)

## Dual SD Card Slots for Maximum Failsafe Recording



The JY-HM90 uses SDHC/SDXC memory cards, the recording media of choice for professionals, recognised for their reliability and cost-effectiveness. Failsafe shooting is further provided by the two onboard card slots, ensuring you never miss a moment. In Dual Recording Mode\* (mirroring), recording is done on two cards simultaneously so you'll always have a backup recording. In normal usage, assured that when the card in one slot becomes full (Seamless Rec\*) or encounters an error (Auto Recovery Mode\*), the camcorder automatically switches to the other slot to ensure uninterrupted shooting.



\*Not available with MOV recording mode

## World's First AVCHD Clip Continuous Recording



As a first for AVCHD recording, this function enables you to store a number of shots together as a single clip file. Instead of having to manage enormous amounts of files, or browsing through dozens of separate files just to gather up the scene you need, you can use pre-grouped clips for easier transfer and editing.



## Dual Battery Mounts for Longer Recording and Easy Exchange



With dual battery mounts\*, you'll have the power to capture every moment from start to finish. In addition to doubling the initial recording time, these mounts are hot swappable so you can keep exchanging batteries without any break in recording.

\*Only one battery supplied

## Shooting Style Flexibility and Various Manual Controls



In addition to the usual style of mounting the body on your shoulder and holding the grip, this camera is also equipped with a REC button and zoom lever on the top bar so you can comfortably take low-angle shots

while checking the image in the tiltable LCD monitor. Design-integrated features such as a lens ring that is switchable to allow manual focus or zoom, as well as functionally laid out manual control buttons, put a higher degree of imaging capability at your fingertips as wouldn't be possible with just auto.

## Other Features

- 24 Megapixel Stills (Ultra Resolution)
- Optical Image Stabiliser
- 3.0-inch 460K Touch Panel LCD
- 0.24-inch 260K Colour Viewfinder
- Internal Stereo Microphone
- Face Recognition
- Terminals: HDMI Out, AV Out, Headphone Out, USB, Mic In, Remote

Note: Product photos are shown with optional microphone MZ-V10.