

4KCAM COMPACT HANDHELD CAMCORDER w/INTEGRATED 12X LENS

GY-HM180E



The new GY-HM180 sets a compact cameras with imp predecessor. With full prof 12x zoom lens it delivers st directly to economical SD+ you need to go-live, it you connector or HD through 1

HD-SDI (3G) and HDMI output



The camcorder comes with a wide variety of professional applications, including HD-SDI

connection is assured between external devices. Simultaneous output from both S

1/2.3-inch 12.4M CMOS sensor

This camcorder was built to deliver stunning, life-like 4K Ultra HD (3840x2160) video. JVC's 4K CMOS sensor provides high sensitivity and excellent performance over a wide range of lighting conditions. Details are crisp and accurate.



12x optical zoom and seamless 24x dynamic

The ultra high quality imagery begins with a precision 12x F1.2-3.5 optical zoom lens (35mm equivalent:

HD mode, Dynamic Zoom combines optical zoom and pixel mapping from a 4K image sensor to create seamless zooms that allows the camera to have a long zoom range while retaining its compact form



Original Image No Zoom



12x Optical Zoom



24x Dynamic Zoom

Dynamic Zoom combines Optical Zoom plus Pixel Mapping, focusing on a small area to achieve a 24x Zoom

Full HD 4:2:2 recording at 50Mbps

The ability to record H.264 4:2:2 24-60p at 50Mbps makes this an ideal camera for broadcasting and production houses alike. The colour accuracy of 4:2:2 enables the camera to deliver exceptional colour resolution even when images are in sharp contrast to the background. This is particularly useful when strong colours are in contrast to bright backgrounds, or in green screen usage.



120fps high-speed recording for slow motion



The camcorder allows high-speed recording 100fps (50Hz) for smooth slow motion play artistic effects or to review action replays w feature is only available at 1920x1080 reso slow at 24p mode.

Detachable handle unit with professional



The detachable heavy-duty handle makes it also makes it simple to shoot from low angle button with lock function, and zoom lever. the attachment of a professional microphone with Phantom power supply capability.

Features

- 4K Ultra HD recording (150 Mbps, 24/30p) to SDXC (UHS-I Speed class3) card
- Single 1/2.3-inch CMOS image sensor with 12.4 million pixels (9.03 active)
- High quality integrated 12x F1.2-3.5 zoom lens (35mm equivalent: 29.5-35mm)
- 4:2:2 full HD recording at 50Mbps (24-60p)
- Live 4K UHD output via HDMI connector
- Dual SDHC/SDXC slots enable dual, backup and continuous recording

120fps HD slow motion recording

Dynamic zoom in HD mode combines optical zoom and pixel mapping to c
lossless 24x zoom

2 position ND filter (1/4, 1/16)

Wired remote control supported

0.24-inch colour viewfinder (1.56M pixel) with smart focus assist function

3.5-inch colour LCD display (920K pixel) with smart focus assist function

9 user button assignable functions

External microphone not included

Built-in stereo microphone

Technical Specifications

GY-HM180E - Compact 4K camcorder with 3G-SDI

Info	
Camera Front-End Specifications	
Image Sensor (inch)	1/2,3 Inch CMOS
Number of Sensors	1
Mega Pixels	12.4
Gain in dB	0 to 36
Shutter speed	1/4 to 1/10000
White Balance modes	FAW, AWA, 3200K, 5600K, Manual

Color Matrix adjustment	Yes
Wide Dynamic Range Mode (WDR)	Yes
User selected function buttons	Yes, 13 (9 Buttons 4 Cross shaped)
User Customizes Menu	Yes

Optical Specifications

Lens mount	Internal
Optical Zoom X times	12
Dynamic Zoom x times	24
Lens F Number	1.2 to 3.5
Lens ratio from / to	4.67mm to 56.04mm
Lens ratio equivalent to 35mm	29.6mm to 355mm
Auto Focus	Yes
Special Auto Focus Features	Area Focus, Near/Far mode / Face
Optical Image stabilization	Yes
Filter Diameter in mm	62mm
Build in ND Filters	2 Filters: 1/4, 1/16

Recording Formats

Media	SDHC/SDXC
Media Class	4K/70 Mbps,HD and below Class 10 4K/150Mbps UHS1-U3 (no UHS-2)

Recording slots	2
Encoder	H.264
File Format MOV	Yes
File Format AVCHD	Yes
Video Codec MPEG4 AVC/H264 4K/HD	Yes
Video Codec AVCHD	Yes
Recording specials	4:2:2 HD Record (H.264,50Mbps)
Simultaneous recording on 2 cards	Yes
Simultaneous recording in 2 modes	Yes
Recording Resolution Formats	
Resolution 3840 x 2160	Yes, 29,97p/25p/23.98p
Resolution 1920 x 1080	Yes, 60p/50p/30p/25p/24p/1080i60/i50
Resolution 1440 x 1080	Yes, 60i/50i
Resolution 1280 x 720	Yes, 60p/50/30p/25p/24p
Resolution 720 x 576	Yes, 59i
Resolution 960 x 540	Yes, 30p/25p/24p
Resolution 480 x 270	Yes, 30p/25p/24p
High Speed Recording	Yes
High Speed Recording Modes	1920x1080 QuickTime (MPEG-4, AVC/H.264) 120fps/100fps
Recording Data rate 1	150 Mbps (UHD)

Recording Data rate 2	70 Mbps (UHD)
Recording Data rate 3	8,17,24,28 Mbps (AVCHD)
Recording Data rate 4	35 Mbps (UHQ)
Recording Data rate 5	50 Mbps (XHQ/YUV422)
Recording Data rate 6	8 Mbps (SD)
Recording Data rate 7	9,8,5,3,1.2,0.8,0.3,0.2 (WEB)
SD Recording	Yes
Interval Recording	Yes
Pre Rec (retro) recording	Yes, 5 sec. (4K) 5,10,15 sec. (HD/SD)
Clip Trimming	Yes
Audio Channels	2
Audio Recording modes	LPCM 2ch, 48 kHz/16 bit (4k/HD/SD MOV), AC3 2ch

IN-OUT's Connections

OUT HDSDI	Yes, 3G HDSDI
OUT HDSDI Format max.	1080/60p,50p 8 Bit 4:2:2 EE
OUT HDMI	Yes
OUT HDMI Format max.	2160/30p,25p,24p 8 bit 4:2:2 EE 1080/60p,50p 8 bit 4:2:2 EE
OUT AV	Yes, 3.5mm mini jack
OUT Audio Line	Yes, 1 times 3.5mm mini jack

OUT Audio Headphone	Yes, 1 times 3.5mm mini jack
IN Audio XLR MIC/LINE	Yes, 2 times supports LINE and MIC Level with +48V
IN Audio AUX	Yes, 1 times 3.5mm mini jack
Build in Microphones	Yes, Stereo Mic
Wired remote IN	Yes, serial LANC 2.5mm mini jack
USB Data Exchange (Storage)	Yes

EVF and LCD	
Operation Panel Type	LCD
Operation Panel Resolution	920K
Operation Panel Size diagonal in inch	3.5
Electronic Viewfinder (EVF) Type	LCOS
Electronic Viewfinder (EVF) Resolution	1,56M
Electronic Viewfinder (EVF) Size diagonal in inch	0.24

Power and Enviroment Spec 's	
Power AC	Yes, DV12V(AC Adapter)
Power DC	Yes, 12 Volt , Battery 7,2V BN-VF823
Battery types	BN-VF823
Power consumption	Approximate 7,9W with VF in 4K REC mode, default
Operation Temperature in Celsius degrees	0 to 40

Storage Temperature in Celsius degrees	-20 to 50
Operation Humidity in %	30 to 80
Storage Humidity under %	85

Mechanical Informations	
Weight in kg	1.6 including battery
Measurements (WxHxD) in mm	W 149 x H 191 x D 307
Handle removable	Yes

Include Package	
Battery	Yes, BN-VF823
AC/DC adapter	Yes
Handle unit	Yes, with Professional Audio XLR support
Instructions	Yes

General Editing Note	
NOTE:	Simulated pictures.The values for weight and dimen: and specifications subject to change without notice.