HD Camcorder
HIGH DEFINITION

Seriously
Good Filming

W TWIN LENS SERIES

W850

X HIGH END SERIES

X920

V ADVANCED SERIES

V750

V ADVANCED SERIES

V550

V ENTRY SERIES

V250
V130

A WEARABLE SERIES

A500

The Best Technology for Capturing
the Best Moments in Life

1080/50p Progessive Video Recording

Nearly all Panasonic Full HD Camcorders are able to record in progressive mode with 1080/50p. Meaning, 50 full frame images per second are recorded, gaining double the image information compared to the interlaced (50i) recording. With this enriched image information movements and tiny details are caught clear and sharp. Especially when recording either sports activities with fast motion sequences or macro sceneries the progressive recording unfolds its strength.

CRISP AND CLEAR ACTION SHOTS

PERFECTION IN THE SMALLEST DETAILS

Wide-Angle and High-Zoom LEICA Lenses Bring out All the Beauty of Full HD Images

All 2014 Camcorder models have wide viewing angle and high zoom. In this way, you can get everyone in the frame and shoot in narrow spaces because everything fits perfectly – and when capturing yourself or taking close-ups, even the background stays visible.

LEICA DICOMAR lenses are renowned for their ability to render sharp images and excellent shading. They also suppress ghosting, flaring, and distortion of the image at its edges. Even in strong sunlight, these superb lenses maintain high contrast and resolution. Now, with an up to 29.8mm wide lens and the industry's first Nano Surface Coating, your videos will have excellent picture quality with a dramatically reduced reflection rate.

TRADITIONAL FRAME

WIDE-ANGLE FRAME

3MOS System Pro – Superb Colour Expression from a High-Sensitivity Sensor

The 3MOS System Pro has achieved a revolutionary leap forward in each of its elements – lens, sensor and engine. It offers the highest-ever image quality from Panasonic with breathtaking detail, vibrant colours and minimal noise when you are shooting in dimly lit places.

5-Axis HYBRID O.I.S. +

HYBRID O.I.S. + uses 5-axis correction to thoroughly suppress blurring all the way from wide-angle shots to powerful zoom shots.

Intelligent Auto Technology

iA functions make it easy for you to capture beautiful images in virtually any situation. For more information, see www.panasonic.eu.

Effortless Connectivity

Wi-Fi CERTIFIED

Just download the Panasonic Image App to your smartphone or tablet, then wirelessly connect your mobile device to the Panasonic Camcorder[1] – it's extremely easy thanks to direct Wi-Fi capability. The one-touch connection uses smart NFC technology, which allows you to connect both devices at a single touch. In an instant you can then use all the Camcorder's Wi-Fi features via the mobile device. Record, watch and share your images and videos while on the go or at home.[1]

Wireless TV Playback

The Wi-Fi Direct™ feature enables you to directly view images or play back videos on a compatible big-screen VIERA HD TV.
TV needs to feature DLNA.

Home Monitoring

Speak to your family or beloved pets or record your home in high quality video using your smartphone or tablet – no matter where you are.

Baby Monitoring

The baby monitor function sends push notifications to smartphones or tablets and establishes live video images and two-way voice communications as soon as it detects noise.

One-Touch Connection

Without cumbersome initial settings, NFC lets you connect a smartphone or tablet to the camcorder in one touch.
Panasonic Image App has to be downloaded for this function.

Easy connection!

Real Time Broadcasting

Using the Real Time Broadcasting function you can live-stream your recordings while your friends and family watch it at home.
USTREAM application is necessary.
Simultaneous Full HD recording is not available on the V550.

USTREAM

[1]Panasonic provides the free dedicated application software "Panasonic Image App" for iOS and Android smartphones or tablets.

Available on the App Store
ANDROID APP ON Google play

Image App

Remote Shooting

With the "Panasonic Image App" use a smartphone or tablet as a live-view remote controller and operate the camcorder from a distance.

Remote Browsing

Use the larger screen of your smartphone or tablet to view and enjoy the videos that you have captured with your Panasonic Camcorder. This makes it much easier to relive the moment with a group of friends or family.

Remote Pan Tilt Cradle

Mounted on the new cradle, your camera can detect and track movements – set it up to monitor your pets while you are out of home or film a party with the camera following people automatically. You can also control the cradle over the internet using your smartphone or tablet.

Easy Share

You can enjoy Highlight Playback with a smartphone or tablet right after shooting. Favourite scenes can be shared on SNS with simple drag and drop operation.

works with YouTube · Picasa™ Web Albums · flickr from YAHOO!

Model Compatibility

Model	Home Monitoring	Wireless TV	One-Touch	Remote Shooting	Remote Browsing	Easy Share	Remote Pan Tilt	Baby Monitor	NFC
W850	●	●	●	●	●	●	●	●	●
X920	●	●		●	●	●	●		
V750	●	●	●	●	●	●	●	●	●
V550	●	●	●	●	●	●	●	●	●
V250	●	●	●	●	●	●	●	●	●
A500				●	●	●	●		●

HD Camcorder
HIGH DEFINITION

W TWIN LENS SERIES

Get Creative – New Twin Camera Technology

TWIN CAMERA™

The W850 series features a second lens that can be used to create outstanding and unseen footage. Use the second lens to capture details of the scene you shoot with the main lens, scenes at the side or yourself while filming. Thanks to the parallel 2-system processing in the Crystal Engine Pro+, the second image will be pasted into a window in the main image without any editing.

MAIN SCENE AND PERSON ASIDE

TELE AND WIDE

MAIN SCENE AND YOURSELF

Improved Level Shot Function

Level Shot Function

The Level Shot function automatically detects and corrects the tilting of captured images. In addition to an acceleration sensor, hybrid processing with a gyrosensor increases tilt tracking by 30%. This results in more stable video recording especially in high-angle or low-angle shooting.

TILTING IMAGE

CORRECT TILTED IMAGE

Full HD Slow Motion Recording

Slow Motion video

The W850 records the video in Full HD at 100fps. The Intelligent Frame Creation of the New Crystal Engine PRO+ interpolates to an equivalent of 200fps for smooth slow motion. When touching the icon on the LCD screen during recording the camcorder switches to slow motion.

A New Level of Filming

HD Camcorder

HC-X920

COLOURS

Full HD 3MOS System Pro with BSI Sensor for Unrivalled Image Quality

- 1920 x 1080p Full HD Video Recording
- 3MOS System Pro with 3MOS BSI Sensor
- 29.8mm Wide-Angle LEICA DICOMAR Lens
- Built-in Wi-Fi Connectivity
- 12x Optical Zoom / 25x Intelligent Zoom
- HYBRID O.I.S.+ with 5-Axis Correction
- Level Shot Function
- Electronic Viewfinder and Manual Functions

8.8cm (3.5-Inch)

HC-W850

COLOURS

Innovative Full-HD Twin Lens Camcorder

- Twin Camera Function
- New BSI Sensor & Crystal Engine Pro+
- Built-in Wi-Fi with One-Touch Connection (NFC)
- 20x Optical Zoom / 50x Intelligent Zoom
- Full-HD Slow Motion
- Improved Level Shot+ with HYBRID O.I.S.+ with 5-Axis Correction

7.5cm (3.0-Inch)

HC-V750

COLOURS

Accessories for W850

VW-VMS10	VW-LED1
STEREO MICROPHONE	LED VIDEO LIGHT

Full HD Camcorder with New BSI Sensor and Smart Wi-Fi Features

- 1920 x 1080p Full HD Video Recording
- New BSI Sensor & Crystal Engine Pro+
- Built-in Wi-Fi with One-Touch Connection (NFC)
- 21x Optical Zoom / 50x Intelligent Zoom
- Full-HD Slow Motion
- Improved Level Shot+ with HYBRID O.I.S.+ with 5-Axis Correction

7.5cm (3.0-Inch)

HC-W850 | TWIN CAMERA™ | BSI sensor | Wi-Fi CERTIFIED | 20x | Slow Motion video | FULL HD

	FULL HD	3MOS SYSTEM	Wi-Fi CERTIFIED	LEICA DICOMAR	Slow Motion video	Engine PRO+
HC-X920	●	●	●	●		
HC-V750	●		●		●	●

V ADVANCED SERIES

HD Camcorder
HIGH DEFINITION

Remote Operation Using a Smartphone or Tablet

Wi Fi CERTIFIED

Operate the new Panasonic Camcorders (W850, V750, V550 and V250) directly or remote control with your smartphone or tablet using the Panasonic Image App.

±15°[1]

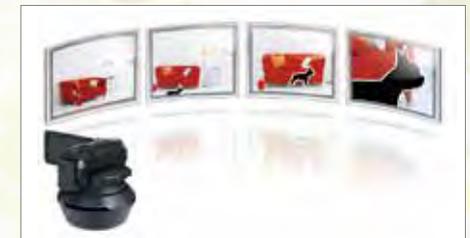±180°[1]

THE UNIT CAN ALSO BE MOUNTED ON TRIPOD

[1]Approximately

Auto Tracking Mode

With the Auto Tracking Mode and the pan/tilt cradle (optional with some models), the camera can be set up at a party and automatically recognize faces and motion to capture all the action. It can also be set up for pet surveillance at home – the motion sensor will find and follow your pet and the camera will zoom in if the pet does not move for a while.

PARTY SCENE

MOVING OBJECT

HD Camcorder
HIGH DEFINITION

Full HD, Full Connectivity

HC-V250

COLOURS

Compact Full HD Camcorder with Built-In Wi-Fi

- 1920 x 1080p Full HD Video Recording
- BSI MOS Sensor
- Built-in Wi-Fi with One-Touch Connection (NFC)
- 28mm Wide-Angle
- 50x Optical Zoom / 90x Intelligent Zoom
- POWER O.I.S.

6.7cm (2.7-Inch)

HC-V550

COLOURS

VW-CTR1

WI-FI CRADLE[1]

Full HD Camcorder with Powerful Zoom

- 1920 x 1080p Full HD Video Recording
- BSI MOS Sensor
- Built-In Wi-Fi with One-Touch Connection (NFC)
- 28mm Wide-Angle
- 50x Optical Zoom / 90x Intelligent Zoom
- HYBRID O.I.S. with 5-Axis Correction
- Improved Level Shot Function

7.5cm (3.0-Inch)

HC-V130

COLOURS

Full HD Camcorder with High-Power Zoom

- 1920 x 1080 Full HD Video Recording
- BSI MOS Sensor
- 32.9mm Wide-Angle
- 38x Optical Zoom / 75x Intelligent Zoom
- Image Stabilizer (E.I.S.)
- 8.9-Megapixel Still Picture Recording

6.7cm (2.7-Inch)

[1] Compatible with W850, V750, V550 and V250

HC-V550 | FULL HD 1920×1080₅₀ₚ | BSI sensor | Wi-Fi CERTIFIED | 28mm WIDE | 5-Axis HYBRID O.I.S.

	FULL HD 1920×1080₅₀ₚ	BSI sensor	Wi-Fi CERTIFIED	28mm WIDE	32mm WIDE	50x ZOOM	38x ZOOM
HC-V520	●	●	●	●		●	
HC-V130	●	●			●		●

There is a New Perspective on Everything

HX-A500

COLOURS

Wearable High Resolution Camera System

- 4K Video Recording
- Slow-Motion Video Recording and Loop Recording
- Built-in Wi-Fi Connectivity with One-Touch Connection (NFC)
- Waterproof (3m) and Dustproof
- Integrated LCD Monitor
- Image Stabiliser with Level Shot Function

The New Wearable Camera

With the new HX-A500 hands-free camcorder, you are literally part of the action. Capture scenes in 4K resolution from an exciting new perspective and without the hassle of holding the camcorder.

Superb Video Quality 4K with 25fps

4K 4K recordings offer four times the resolution of Full HD. The new Panasonic A500 even records with 25 frames per second and can easily capture even the fastest movements and display them smoothly.

Image Stabiliser and Level Shot Function

Image Stabilizer

Level Shot Function

Enjoy clear images even while you are recording in action. Image Stabiliser ensures the scenes will not look too shaky. It works together with Level Shot Function, which automatically detects and corrects the frame tilt while shooting, even if the A500 is in an unusual or unstable position such as in low or high-angle shooting.

Integrated LCD Monitor

The HX-A500 offers an integrated 1.5-Inch LCD monitor enhanced with a glass panel. You can easily check e.g. recorded content or recording angle on the LCD without using a smartphone or tablet.

Accessories for A500

VW-CLA100	VW-MBA100	VW-HLA500	VW-WJA100
CLIP-MOUNT FOR HELMETS, GOGGLES ETC.	SHOULDER CASE	MULTI CASE	WIND JAMMER

HX-A500

FEATURES

	High-End Camcorder Series		Advanced Camcorder Series		Entry Camcorder Series		Advanced Camcorder
	W850	**X920**	**V750**	**V550**	**V250**	**V130**	**A500**
Recording Format	AVCHD Progressive / MP4	AVCHD Progressive / MP4	AVCHD Progressive / MP4	AVCHD Progressive / MP4	AVCHD Progressive / MP4	AVCHD iFrame / MP4	
Lens	Panasonic LENS	LEICA NANO SURFACE COATING Premium Lens	Panasonic LENS	Panasonic LENS	Panasonic LENS	Panasonic LENS	Panasonic Lens
Sensor	BSI	BSI	BSI	BSI	BSI	BSI	BSI
Engine							New High Performance Image Processing LSI
Wi-Fi	Wi-Fi CERTIFIED / N	Wi-Fi CERTIFIED	Wi-Fi CERTIFIED / N	Wi-Fi CERTIFIED / N	Wi-Fi CERTIFIED / N	–	Wi-Fi CERTIFIED / N
Zoom	20x / 50x	12x / 25x	20x / 50x	50x / 90x	50x / 90x	38x / 75x	–
Image Stabiliser	5-Axis HYBRID O.I.S.+ Level	5-Axis HYBRID O.I.S.+ Level	5-Axis HYBRID O.I.S.+ Level	5-Axis HYBRID O.I.S.+ Level		Image Stabilizer	Image Stabilizer Level
Creative Control	Creative Control	Creative Control	Creative Control	Creative Control	Creative Control	Creative Control	–
Still Image Recording Size	24-Megapixels	20.4-Megapixels	24-Megapixels	10-Megapixels	10-Megapixels	8.9-Megapixels	–
HD Video Recording	FULL HD	FULL HD	FULL HD	FULL HD	FULL HD	HD	4K
intelligent Auto	iA+	iA+	iA+	iA+	iA+	iA	–
Wide-Angle	29.5 WIDE	29.5 WIDE	29.5 WIDE	28 WIDE	28 WIDE	32 WIDE	–
Special Features	Wind Shield Zoom Microphone / Slow Motion Video	3D FULL HD	Wind Shield Zoom Microphone / Slow Motion Video	–	–	–	Waterproof 3 m 10 ft / Shock

Made for Your Camera

Remote Pan Tilt Cradle
VW-CTR1

Enabled by new Wi-Fi functionalities implemented in Panasonic camcorders remote video recording has never been so easy.

Accessory Kit
VW-ACT190

The accessory kit includes a Panasonic soft carrying case, an additional battery and charger unit.

High Capacity Battery Pack

VW-VBN130
VW-VBN260
VW-VBT190
VW-VBT380

Be on the safe side with Panasonic high capacity Lithium Ion batteries that ensure highest performance, durability and are protected against overheating and leakage.

3D Conversion Lenses

VW-CLT2

By using the 3D conversion lens you can record stunning 3D content even with a conventional 2D camcorder.

Conversion Lenses

VW-W4907H

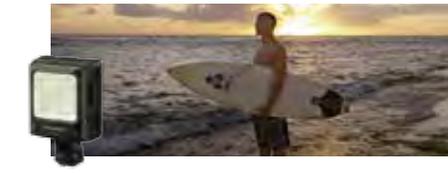Increase the wide angle range by attaching a wide conversion lens to the camcorder.

LED Video Light

VW-LED1

The Panasonic LED Video Light is powered by four separate AA sized batteries and allows additional illumination of the recorded scenery.

Microphone

VW-VMS10

Simply attach the Panasonic stereo microphone VMS10 to the camcorder body and without additional power supply you can record video footage with enriched sound.

Filter Kit

VW-LF49N

The Filter Kit always features a Neutral Density Filter preventing overexposure in bright lit surroundings; and an MC Protector and a lens cap to protect the lens from scratches.

Shoe Adapter

VW-SK12

With this adaptor unit, camcorder accessories can be used without the need of a hot shoe adapter on the camcorder body itself.

Camcorder

	HC-W850	HC-X920	HC-V750
MAIN SENSOR			
Image Sensor	1/2.3-type NEW BSI MOS Sensor	1/2.3-type BSI MOS Sensor x 3	1/2.3-type NEW BSI MOS Sensor
Total Pixels	12.76-Megapixels	38.28-Megapixels	12.76-Megapixels
Full HD 1920 x 1080	•	•	•
SUB SENSOR			
Image Sensor	1/4-type MOS Sensor	–	–
Total Pixels	5.27-Megapixels	–	–
MAIN LENS			
F Value	F1.8 (WIDE) / F3.6 (TELE)	F1.5 (WIDE) / F2.8 (TELE)	F1.8 (WIDE) / F3.6 (TELE)
Focal Length	4.08 - 81.6mm	2.84 - 34.1mm	4.08 - 81.6mm
Optical Zoom	20x	12x	20x
Intelligent Zoom	50x	25x	50x
Lens Brand	Panasonic Lens	LEICA DICOMAR Lens	Panasonic Lens
SUB LENS			
F Value	F2.2	–	–
Focal Length	3.54mm	–	–
35mm Film Camera Equivalent (Motion Image)	37.2mm (Motion picture recording mode)	–	–
VIDEO RECORDING			
Media	SD / SDHC / SDXC Memory Card	SD / SDHC / SDXC Memory Card	SD / SDHC / SDXC Memory Card
Format	[AVCHD] AVCHD Progressive [iFrame / MP4] MP4	[AVCHD] AVCHD 3D / Progressive [iFrame] MP4	[AVCHD] AVCHD Progressive [iFrame / MP4] MP4
Compression Method	MPEG-4 AVC/H.264	[2D] MPEG-4 AVC/H.264 [3D] MPEG-4 MVC/H.264	MPEG-4 AVC/H.264
Audio Recording System	1080/50p, PH, HA, HG, HE: Dolby Digital (5.1ch / 2ch) iFrame, MP4: AAC (2ch)	1080/50p, PH, HA, HG, HE: Dolby Digital (5.1ch / 2ch) iFrame: AAC (2ch)	1080/50p, PH, HA, HG, HE: Dolby Digital (5.1ch / 2ch) iFrame, MP4: AAC (2ch)
Recording / Playback Mode	1080/50p (28Mbps / VBR), (1920 x 1080) PH (24Mbps / VBR), (1920 x 1080) HA (17Mbps / VBR), (1920 x 1080) HG (13Mbps / VBR), (1920 x 1080) HE (5Mbps / VBR), (1920 x 1080) MP4/1080p[50M] (50Mbps / VBR), (1920 x 1080) MP4/1080p[28M] (28Mbps / VBR), (1920 x 1080) MP4/720p[9M] (9Mbps / VBR), (1280 x 720) iFrame (28Mbps / VBR), (960 x 540)	1080/50p (28Mbps / VBR), (1920 x 1080) PH (24Mbps/VBR), (1920 x 1080) HA (17Mbps / VBR), (1920 x 1080) HG (13Mbps / VBR), (1920 x 1080) HE (5Mbps / VBR), (1920 x 1080) iFrame (28Mbps / VBR), (960 x 540) AVCHD 3D (28Mbps / VBR), (1920 x 1080) SbS (17Mbps / VBR), (1920 x 1080)	1080/50p (28Mbps / VBR), (1920 x 1080) PH (24Mbps / VBR), (1920 x 1080) HA (17Mbps / VBR), (1920 x 1080) HG (13Mbps / VBR), (1920 x 1080) HE (5Mbps / VBR), (1920 x 1080) MP4/1080p[50M] (50Mbps / VBR), (1920 x 1080) MP4/1080p[28M] (28Mbps / VBR), (1920 x 1080) MP4/720p[9M] (9Mbps / VBR), (1280 x 720) iFrame (28Mbps / VBR), (960 x 540)
STILL IMAGE SECTION			
Format	JPEG (DCF/Exif2.2)	JPEG (DCF/Exif2.2), MPO	JPEG (DCF/Exif2.2)
Maximum Image Size (Still Image)	[16:9] 24-Megapixels (6528 x 3672),12.6-Megapixels (4736 x 2664), 2.1-Megapixels (1920 x 1080) [3:2] 20-Megapixels (5472 x3648), 10.6-Megapixels (3984 x 2656), 2-Megapixels (1728 x 1152) [4:3] 18-Megapixels (4896 x 3672), 8-Megapixels (3264 x 2448), 0.3-Megapixels (640 x 480)	[16:9] 20.4-Megapixels (6016 x 3384) [3:2] 16-Megapixels (4896 x 3264) [4:3] 15.1-Megapixels (4480 x 3360 [3D] 2.1-Megapixels (1920 x 1080) [16:9]	[16:9] 24-Megapixels (6528 x 3672),12.6-Megapixels (4736 x 2664), 2.1-Megapixels (1920 x 1080) [3:2] 20-Megapixels (5472 x3648), 10.6-Megapixels (3984 x 2656), 2-Megapixels (1728 x 1152) [4:3] 18-Megapixels (4896 x 3672), 8-Megapixels (3264 x 2448), 0.3-Megapixels (640 x 480)
Flash / LED Video Light	•	• / –	•
SHOOTING FUNCTIONS			
iA+	•	•	•
Image Stabiliser	HYBRID O.I.S.+ with Active Mode, O.I.S. Lock, Level Shot Function	HYBRID O.I.S.+ with Active Mode, O.I.S. Lock, Level Shot Function	HYBRID O.I.S.+ with Active Mode, O.I.S. Lock, Level Shot Function
Focus	Auto / Manual	Auto / Manual	Auto / Manual
White Balance	Auto / Indoor1 / Indoor2 / Sunny / Cloudy / White set	Auto / Indoor1 / Indoor2 / Sunny / Cloudy / White set	Auto / Indoor1 / Indoor2 / Sunny / Cloudy / White set
WI-FI			
Standard	IEEE 802.11b/g/n	IEEE 802.11b/g/n	IEEE 802.11b/g/n
Frequency	2.4GHz band	2.4GHz band	2.4GHz band
NFC	•	–	•
GENERAL FEATURES			
LCD Monitor	7.5 cm (3") Wide LCD monitor (460,800 dots)	8.8 cm (3.5") Wide LCD monitor (1,152,000 dots)	7.5 cm (3") Wide LCD monitor (460,800 dots)
Manual Ring / Dial	• (Dial)	•	• (Dial)
HDMI	• (mini)	• (mini)	• (mini)
USB	2.0 Hi-Speed	2.0 Hi-Speed	2.0 Hi-Speed
Microphone	5.1ch Surround, Zoom, Focus and Stereo Microphone	5.1ch Surround, Zoom, Focus and Stereo Microphone	5.1ch Surround, Zoom, Focus and Stereo Microphone
Speaker	Dynamic type	Dynamic type	Dynamic type
Dimensions (W x H x D)	Approx. 65 x 72.4 x 138.8mm	Approx. 67 x 72 x 150mm	Approx. 65 x 72.4 x 138.8mm
Weight (w/o battery and SD Memory Card)	Approx. 352g	Approx. 417g	Approx. 354g

• Yes – No

Camcorder

	HC-V550	HC-V250	HC-V130	HX-A500
MAIN SENSOR				
Image Sensor	1/5.8-type BSI MOS Sensor	1/5.8-type BSI MOS Sensor	1/5.8" BSI MOS Sensor	1/2.3-type BSI MOS Sensor
Total Pixels	2.51-Megapixels	2.51-Megapixels	2.51-Megapixels	12.76-Megapixels
Full HD 1920 x 1080	•	•	•	•
SUB SENSOR				
Image Sensor	–	–	–	–
Total Pixels	–	–	–	–
MAIN LENS				
F Value	F1.8 (WIDE) / F4.2 (TELE)	F1.8 (WIDE) / F4.2 (TELE)	F1.8 (WIDE) / F4.2 (TELE)	F2.8
Focal Length	2.06 - 103mm	2.06 - 103mm	2.35 - 89.3mm	3.4mm
Optical Zoom	50x	50x	38x	–
Intelligent Zoom	90x	90x	75x	–
Lens Brand	Panasonic Lens	Panasonic Lens	Panasonic Lens	Panasonic Lens
SUB LENS				
F Value	–	–	–	–
Focal Length	–	–	–	–
35mm Film Camera Equivalent (Motion Image)	–	–	–	–
VIDEO RECORDING				
Media	SD / SDHC / SDXC Memory Card	SD / SDHC / SDXC Memory Card	SD / SDHC / SDXC Memory Card	micro SD / micro SDHC
Format	[AVCHD] AVCHD Progressive [iFrame / MP4] MP4	[AVCHD] AVCHD Progressive [iFrame / MP4] MP4	[AVCHD] AVCHD [iFrame / MP4] MP4	MPEG-4 AVC file format (.MP4), Video Recording System MPEG-4 AVC / H.264
Compression Method	MPEG-4 AVC/H.264	MPEG-4 AVC/H.264	MPEG-4 AVC/H.264	MPEG-4 AVC/H.264
Audio Recording System	1080/50p, PH, HA, HG, HE: Dolby Digital (2ch) iFrame, MP4: AAC (2ch)	1080/50p, PH, HA, HG, HE: Dolby Digital (2ch) iFrame, MP4: AAC (2ch)	HA, HG, HE: Dolby Digital (2ch) iFrame, MP4: AAC (2ch)	AAC
Recording / Playback Mode	1080/50p (28Mbps / VBR), (1920 x 1080) PH (24Mbps / VBR), (1920 x 1080) HA (17Mbps / VBR), (1920 x 1080) HG (13Mbps / VBR), (1920 x 1080) HE (5Mbps / VBR), (1920 x 1080) MP4/1080p[28M] (28Mbps / VBR), (1920 x 1080) MP4/720p[9M] (9Mbps / VBR), (1280 x 720) iFrame (28Mbps / VBR), (960 x 540)	1080/50p (28Mbps / VBR), (1920 x 1080) PH (24Mbps / VBR), (1920 x 1080) HA (17Mbps / VBR), (1920 x 1080) HG (13Mbps / VBR), (1920 x 1080) HE (5Mbps / VBR), (1920 x 1080) MP4/1080p[28M] (28Mbps / VBR), (1920 x 1080) MP4/720p[9M] (9Mbps / VBR), (1280 x 720) iFrame (28Mbps / VBR), (960 x 540)	HA (17Mbps / VBR), (1920 x 1080) HG (13Mbps / VBR), (1920 x 1080) HE (5Mbps / VBR), (1920 x 1080) iFrame (28Mbps / VBR), (960 x 540) MP4 (1.5Mbps / VBR), (640 x 360)	[Normal Recording Mode] 3840 x 2160/25p (Max. 72Mbps / VBR) 1920 x 1080/50p (Max. 28Mbps / VBR) 1920 x 1080/25p (Average 15Mbps / VBR) 1280 x 720/50p (Average 15Mbps / VBR) 1280 x 720/25p (Average 9Mbps / VBR) 848 x 480/25p (Average 4.5Mbps / VBR) [Slow Motion Mode] 1920 x 1080/50fps/25p (Average 15Mbps / VBR) 1280 x 720/100fps/25p (Average 9Mbps / VBR) 848 x 480/200fps/25p (Average 4.5Mbps / VBR)
STILL IMAGE SECTION				
Format	JPEG (DCF/Exif2.2)	JPEG (DCF/Exif2.2)	JPEG (DCF/Exif2.2)	JPEG (DCF/Exif2.2)
Maximum Image Size (Still Image)	[16:9] 10-Megapixels (4224 x 2376), 2.1-Megapixels (1920 x 1080) [3:2] 7.7-Megapixels (3408 x 2272), 2-Megapixels (1728 x 1152) [4:3] 7.4-Megapixels (3136 x 2352), 0.3-Megapixels (640 x 480)	[16:9] 10-Megapixels (4224 x 2376), 2.1-Megapixels (1920 x 1080) [3:2] 7.7-Megapixels (3408 x 2272), 2-Megapixels (1728 x 1152) [4:3] 7.4-Megapixels (3136 x 2352), 0.3-Megapixels (640 x 480)	[16:9] 8.9-Megapixels (3968 x 2232), 2.1-Megapixels (1920 x 1080)	[16:9] 16.3-Megapixels (5376 x 3024), 8.3-Megapixels (3840 x 2160), 5.3-Megapixels (3072 x 1728)
Flash / LED Video Light	–	–	–	–
SHOOTING FUNCTIONS				
iA+	•	•	–	–
Image Stabiliser	HYBRID O.I.S.+ with Active Mode, O.I.S. Lock, Level Shot Function	POWER O.I.S.+ with Active Mode, O.I.S. Lock	Image Stabiliser	Image Stabiliser
Focus	Auto / Manual	Auto / Manual	Auto / Manual	Fixed
White Balance	Auto / Indoor1 / Indoor2 / Sunny / Cloudy / White set	Auto / Indoor1 / Indoor2 / Sunny / Cloudy / White set	Auto / Indoor1 / Indoor2 / Sunny / Cloudy / White set	Auto / Indoor1 / Indoor2 / Sunny / Cloudy / White set
WI-FI				
Standard	IEEE 802.11b/g/n	IEEE 802.11b/g/n	–	IEEE 802.11b/g/n
Frequency	2.4GHz band	2.4GHz band	–	2.4GHz band
NFC	•	•	–	•
GENERAL FEATURES				
LCD Monitor	7.5 cm (3") Wide LCD monitor (460,800 dots)	6.7cm (2.7") Wide LCD monitor (230,400 dots)	6.7cm (2.7") Wide LCD monitor (230,400 dots)	3.8cm (1.5") Wide LCD Monitor (115,200 dots)
Manual Ring / Dial	• (Dial)	–	–	–
HDMI	• (mini)	• (mini)	• (mini)	–
USB	2.0 Hi-Speed	2.0 Hi-Speed	2.0 Hi-Speed	2.0 Hi-Speed
Microphone	5.1ch Surround, Zoom, Focus and Stereo Microphone	2ch Stereo, Zoom Microphone	2ch Stereo	Monaural
Speaker	Dynamic type	Dynamic type	Dynamic type	Dynamic type
Dimensions (W x H x D)	Approx. 65 x 72.4 x 138.8mm	Approx. 53 x 59 x 116mm	Approx. 53 x 60 x 114mm	(Camera) Approx. 26.5 x 68.5 x - mm (Body) Approx. 59.5 x 94 x 26.7mm
Weight (w/o battery and SD Memory Card)	Approx. 354g	Approx. 216g	Approx. 181g	(Camera) Approx. 31g (Body) Approx. 128g