



High-End 1.0-type Handheld Camcorder with 4K/HDR/10-bit Capabilities. Supports IP Control, NDI | HX and RTMP Streaming.

CREATIVITY CONNECTIVITY







A NEW CX SERIES 4K CAMCORDER DELIVER NEXT-

4K

4K (UHD)/10-bit/60p High-Quality Image Acquisition and HDR-Compliant HLG (Hybrid Log-Gamma)

4 K/H D

WIDE-ANGLE LENS

24.5 mm at the Wide End with a 20x Optical Zoom Lens

Panasonic developed the new CX Series of handheld camcorders, spearheaded by the AG-CX350, to fuse video, on-air broadcasting, and communication for the next generation. The AG-CX350 features 4K/UHD resolution, 10-bit depth, HDR-compatible image quality, and a host of recording formats for the ultimate creativity in a compact, lightweight body with low power consumption. It is also equipped with an RTSP/RTMP/ RTMPS function for live streaming and NDI | HX-ready IP connectivity, to serve as a live camera, and clearly expands the usability of the handheld camcorder beyond conventional news gathering and recording applications to meet a wide range of professional needs.

GENERATION CREATIVITY AND CONNECTIVITY

CONNECTIVITY

INPUT 7

HD Streaming Distribution Possible While Recording. RTSP/RTMP/RTMPS Streaming Methods Supported.

LIVE STREAMIN

NDIIHXCONNECT

Industry-First NDI HX Compatibility* Via Camcorder. Transmission/Remote Support by IP Connection.



* Recording, streaming and 4K output are not available when using NDI | HX mode. Industry's first camcorder to support NDI | HX. As of June 2019 (according to a Panasonic survey). To use this function, an activation keycode from NewTek is required. Keycodes can be purchased from the following website: http://new.tk/ndi_panasonic



An image shot in a room using the wide angle.

Panasonic boasts the world's largest market share in the aspherical lens segment. Its cutting-edge optical technology was maximized in the development of the integrated lens used in the AG-CX350. This lens has the industry's widest angle of 24.5 mm⁻¹ on the wide end and allows recording of wide-angle images with minimal distortion, without the use of a conversion lens. The optical 20x zoom covers up to 490 mm telephoto in all modes. Furthermore, the i.Zoom enables seamless zooming of up to 32x in HD or up to 24x in UHD from the telephoto end with no degradation in resolution. The

AG-CX350 also comes with digital 2x/ 5x/10x zoom.²

*1: In 35 mm equivalent. The AG-CX350's wide 24.5 mm angle is the widest in the industry for UHD/FHD (16:9). In the segment of camcorders with integrated lens, the Panasonic AG-UX180 achieved the industry's widest angle of 24 mm in UHD/24p (17:9). For UHD/FHD (16:9), 25.4 mm is the widest angle in the industry. (Both As of June 2019, according to a Panasonic survey) *2: When using the digital zoom, picture quality degrades as the magnification rate increases.



HDR-Compliant HLG (Hybrid Log-Gamma)



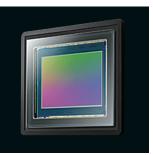
HDR (High Dynamic Range) Image

The AG-CX350 features HLG (Hybrid Log-Gamma)* to support HDR (High Dynamic Range). This achieves a wide dynamic range on HDR-compatible TV monitors. The gamma mode can be selected from eight modes (HD, SD, FILMLIKE 1, FILMLIKE 2, FILMLIKE 3, FILM-REC, VIDEO-REC, HLG).

 * The HLG specification was developed jointly by Japanese broadcaster NHK and the BBC in the UK. It is defined in ARIB STD-B67 and ITU Rec. 2100.

New High-Definition, High-Sensitivity 1.0-type 15M MOS Sensor

The 1.0-type MOS (approximately 15,030,000 pixels) offers an outstanding depth of field and excellent balance between image quality and sensitivity. It supports multi-formats, such as UHD (3840 x 2160), FHD, HD and SD, and provides images without cropping in all modes. This MOS sensor also boasts high sensitivity of F12 (60 Hz) /F13 (50 Hz) (in both UHD and FHD in High Sensitivity mode).





Built-in 5-Axis Hybrid Image Stabilizer



5-Axis Hybrid Image Stabilize

The AG-CX350 has a built-in hybrid image stabilizer that combines optical and electronic camera shake compensation functions. It corrects camera shake in five axial directions in all modes* including UHD to provide powerful camera shake compensation power in low-angle shooting, high-angle shooting and all other unstable conditions. There are three modes to choose from: NORMAL (standard), STABLE (effective for fixed-frame shooting) and PAN/TILT (effective in panning and tilting).

* Excluding Super Slow and VFR modes.

Intelligent AF and Focus Assist

The AG-CX350's auto focus system is Intelligent AF, which is equipped with a micro drive focus unit to achieve high focusing speed, excellent tracking performance and superb stability. The AG-CX350 is also equipped with Expand and Peaking (simultaneous display possible), Manual Focus Assist, LCD Touch Focus (switchable to Auto Iris or brightness display) and One-Push AF Focus Assist.

Manual Three Rings

The AG-CX350 comes with Manual Three Rings for zoom, focus and iris control. They deliver quick response and provide tactile feel that satisfies professionals. The zoom lever located at the upper section of the handle has a multi-step variable zoom function, allowing smooth zooming from ultra-low speed when shooting from low angle shooting and when a tripod is used.



Manual Three Rings

Cabled/Wireless Remote Control Capability



Example of Third-party Remote Controller

· Wired Remote Control with a Third-Party Controller

The remote terminal (2.5 mm super mini jack) enables the control of the focus and zoom using a remote controller (third-party product).

Wireless Control from a Tablet or Smartphone

The AG-CX350 can be controlled remotely and wirelessly using a tablet/smartphone app⁻¹ (downloadable for free from the App Store or Google Play). In addition to zoom, i.Zoom and focus lens control, the app enables remote control of various other functions, including camera setting, picture quality adjustment, REC start/stop and menu setting. What's more, the app can be used to select the camera to control from up to eight cameras.²



*1: iPad: iOS 9 or later are supported. Android devices: Android 5.0 or later are supported. Wireless module (sold separately; AJ-WM50 or recommended third-party Wi-Fi dongle) is required.

 2: The app does not support simultaneous/synchronous control of multiple cameras. Camera switching takes several seconds.

New HEVC Codec for High-Image-Quality 10-bit UHD/60p Recording at Low Bit Rate

The AG-CX350 is capable of recording in various formats at different compression rates (see the table below). It can record UHD/60p videos in high-image-quality 10-bit on an SD memory card. It also features a new, high-efficiency HEVC codec (LongGOP, 10-bit, 4:2:0,



MOV) . When a PC with 7th Generation Intel Core i7 processor is used, the hardware acceleration enables native decoding and playback. Free software, such as VLC Media Player or QuickTime Player, provides smooth playback on a notebook PC or MacBook with Intel Core i7 processor.*

> * Playback may lack smoothness depending on the PC environment, such as storage and memory devices.

MOV/AVCHD/P2 MXF* File Formats Supported

The AG-CX350 records MOV files that are highly compatible and easy to use. This file format is the same as that used on Panasonic's compact cinema camera, the AU-EVA1, and supports file names with up to 20 characters, allowing recorded video clips to be easily managed. The AG-CX350 also supports conventional AVCHD recording, including the AVCHD 8 Mb/s mode, used widely as the format in college and professional football coaching analysis. And it will support the MXF P2 file format for broadcasting, enabling AVC-Intra or AVC-LongG HD recording.*

* AVC-Intra200/100/50 codec will be supported in the future. Use a microP2 card for recording in P2 format.

10-bit Variable Frame Rate (VFR) without Cropping



Simulated Image

In UHD, variable frame rate (VFR) recording at 1 fps to 60 fps is possible. In FHD, super-slow can be realized at a maximum of 120 fps. Both provide high-quality 10-bit, full-frame pictures with no image area cropping even at high frame rates.

Freeze Frame (Still Image Capture)

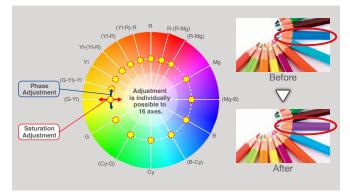
When playing back video clips on the AG-CX350, any desired frame can be captured as a still image (JPEG) and recorded onto an SD memory card. Video playback, frame advance (+/-), and still-image captures can all be done intuitively by touch panel operation.

Recordi	ng For	mat	Pixels	Color Sampling	Bit Depth	Bit Rate	File Format	VFR*3	Audio	
		HEVC LongGOP 200M	3840 x 2160	4:2:0	10 bit	200 Mbps (VBR)	59.94p, 50p	1 to 60 fps [50 fps] (Max. 200 Mbps)		
MOV (HEVC)		HEVC LongGOP 150M	3840 x 2160	4:2:0	10 bit	150 Mbps (VBR)	29.97p, 25p, 23.98p			
		HEVC LongGOP 100M	3840 x 2160	4:2:0	10 bit	100 Mbps (VBR)	59.94p, 50p			
	UHD	422ALL-I 400M	3840 x 2160	4:2:2	10 bit	400 Mbps (VBR)	29.97p, 25p, 23.98p	1 to 30 fps [25 fps]		
		422LongGOP 150M	3840 x 2160	4:2:2	10 bit	150 Mbps (VBR)	29.97p, 25p, 23.98p	1 to 30 fps [25 fps]	24 bit	
		420LongGOP 150M	3840 x 2160	4:2:0	8 bit	150 Mbps (VBR)	59.94p, 50p	1 to 60 fps [50 fps]		
		420LongGOP 100M	3840 x 2160	4:2:0	8 bit	100 Mbps (VBR)	29.97p, 25p, 23.98p	(Max. 150 Mbps)	_ LPCM	
MOV		422ALL-I 200M	1920 x 1080	4:2:2	10 bit	200 Mbps (VBR)	59.94p, 50p	1 to 60 fps [50 fps] Super Slow:		
(AVC)		422ALL-I 100M	1920 x 1080	4:2:2	10 bit	100 Mbps (VBR)	29.97p, 25p, 23.98p, 59.94i, 50i	120 fps [100 fps] (Max. 400 Mbps)		
		422LongGOP 100M	1920 x 1080	4:2:2	10 bit	100 Mbps (VBR)	59.94p, 50p	1 to 60 fps [50 fps]		
	FHD	422LongGOP 50M	1920 x 1080	4:2:2	10 bit	50 Mbps (VBR)	29.97p, 25p, 23.98p, 59.94i, 50i	Super Slow: 120 fps [100 fps] (Max. 200 Mbps)		
		PS	1920 x 1080	4:2:0	8 bit	25 Mbps (VBR)	59.94p, 50p	-		
		PH	1920 x 1080	4:2:0	8 bit	21 Mbps (VBR)	23.98p, 59.94i, 50i	-		
AVCHD		HA	1920 x 1080	4:2:0	8 bit	17 Mbps (VBR)	59.94i, 50i	-	Dolby Audio	
	HD	PM	1280 x 720	4:2:0	8 bit	8 Mbps (VBR)	59.94p, 50p	-		
	SD	SA	720 x 480 (59.94i) 720 x 576 (50i)	4:2:0	8 bit	9 Mbps (VBR)	59.94i, 50i	-		
		AVC-Intra200*1	1920 x 1080	4:2:2	10 bit	200 Mbps (59.94i)	59.94i, 50i	-		
		AVC-Intra100*1	1920 x 1080	4:2:2	10 bit	100 Mbps (59.94i)*2	59.94p, 50p, 59.94i, 50i	-	24 bit LPCM	
	EUD	AVC-Intra422	1920 x 1080	4:2:2	10 bit	200 Mbps (59.94p)	59.94p, 50p	-		
	FHD	AVC-LongG50	1920 x 1080	4:2:2	10 bit	50 Mbps (59.94i) (VBR)	59.94i, 50i	-		
		AVC-LongG25	1920 x 1080	4:2:2	10 bit	25 Mbps (59.94i)*2 (VBR)	59.94p, 50p, 59.94i, 50i	-		
P2*1		AVC-LongG12	1920 x 1080	4:2:0	8 bit	12 Mbps (59.94i)*2 (VBR)	59.94p, 50p, 59.94i, 50i	_	16 bit LPCM	
(MXF)		AVC-Intra200*1	1280 x 720	4:2:2	10 bit	200 Mbps (59.94p)	59.94p, 50p	-		
		AVC-Intra100*1	1280 x 720	4:2:2	10 bit	100 Mbps (59.94p)	59.94p, 50p	-		
		AVC-Intra50*1	1440 x 1080	4:2:0	10 bit	50 Mbps (59.94i)	59.94i, 50i	-	24 bit	
	HD		1280 x 720	4:2:0	10 bit	50 Mbps (59.94p)	59.94p, 50p	-	LPCM	
		AVC-LongG50	1280 x 720	4:2:2	10 bit	50 Mbps (59.94p) (VBR)	59.94p, 50p	-		
		AVC-LongG25	1280 x 720	4:2:2	10 bit	25 Mbps (VBR)	59.94p, 50p	-		
		AVC-LongG12	1280 x 720	4:2:0	8 bit	12 Mbps (VBR)	59.94p, 50p	-	16 bit LPCM	

Recording Format

^{*1:} AVC-Intra200/100/50 codec will be supported in the future. *2: The bit rate increases to two times when recorded in 59.94p or 50p. *3: VFR is supported only in Progressive mode. Square brackets [] indicate a system frequency of 50.00 Hz.

Broadcast-Grade Picture Quality Adjustment Functions



16-Axis Independent Color Correction Illustration

• **16-Axis Independent Color Correction:** Provides an independent effect to each of the 16 phases of video images. It enables color matching of multiple cameras under the same lighting conditions as well as creative image rendering.

- · Master Detail: Adjusts the overall degree of contour enhancement.
- · Skin Detail: Makes skin colors appear soft and beautiful.

• Scene Files: Six preset files are provided. You can change any of the settings as desired.

• Other Picture Settings: Matrix tables, V detail, detail coring, chroma level, chroma phase, color temperature, master pedestal and knee.

24-bit PCM Audio 4-Channel Recording

The AG-CX350 enables 4-channel recording using the built-in microphone (2-channels) and XLR (2-channels)⁻¹. In MOV or P2 MXF mode, 24-bit linear PCM recording delivers higher sound quality. Other audio features include manual volumes, OSD level meter, 1 kHz test tone output⁻² and headphone output

(3.5 mm-diameter stereo mini jack).

*1: When MOV or P2 MXF is selected as the main recording format. In AVC-LongG12 mode, only 16-bit LPCM 4-channel recording is supported. And in AVCHD mode, only 2-channel recording is possible. "2: This output is produced when the color bar is displayed. When the 50 Hz system

frequency is selected, the output is 997 Hz.

Double Memory Card Slots Improve Recording Reliability

Two SD memory card slots capable of using SDXC/SDHC/microP2 cards⁻¹ enable unlimited^{*2} relay recording by simply changing SD memory cards. Recording reliability is further improved with simultaneous recording and background recording. And the AG-CX350 is equipped with Pre Rec, Interval Rec and Time Stamp recording functions.

*1 For memory card usage conditions, see the "Recording Media" chart on page 11. "2 If the Relay recording time reaches 10 hours, shooting will temporarily stop, and then automatically restart a few seconds later. If it is recorded in MOV format, the file will be split every 3 hours and recorded.

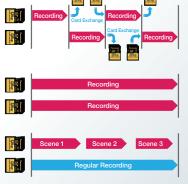
Unlimited Relay Recording Automatically records

continuously from Slot 1 to Slot 2. By changing a full card with a new card, images can be recorded continuously for many hours.

Simultaneous Recording Identical data is recorded onto cards in both slots in this dual recording mode.

Background Recording

Records ordinary Rec Start/ Stop-controlled data in Slot 1, and records all data, even when Slot 2.



Simultaneous Display on High-Brightness, High-Definition LCD and High-Resolution OLED EVF



LCD Monitor Screen While Shooting (Pictures simulated)

The AG-CX350 features a new 3.2-type high-definition LCD monitor (approximately 1,620,000 dots). This LCD monitor uses the RGBW (red, green, blue, white) pixel structure to provide high visibility even in bright sunlight. The 3:2 aspect ratio enables the display of timecode and camera status without superimposing on the image. The touch panel function allows convenient touch focus and menu setting. The viewfinder is a high-resolution color OLED (approximately 2,360,000 dots, with an image display area of approximately 1,770,000 dots) that offers superb color reproduction. Since the AG-CX350 newly supports simultaneous LCD and EVF outputs, the LCD monitor can display the captured image at all times even when you look away from the EVF.



Rear Terminal

RTSP/RTMP/RTMPS-Compatible HD Streaming

HD streaming is possible while images are being acquired.^{*1} RTSP, RTMP and RTMPS streaming methods are compatible.^{*2} And Facebook, YouTube, and other streaming services are supported. The AG-CX350 can be used for live coverage of concerts and sports events as well as for live streaming of breaking news. Multicast streaming is also supported.

*1: There are some conditions under which streaming is not possible, such as when recording in UHD format or using NDI|HX mode. Please see the Operating Instruction Manual for details. *2: The P2 Network Setting Software is convenient for setting up the RTMP and RTMPS functions. See the section, "Connectivityverified live video services," for the live video streaming services that have been confirmed to be compatible.







Connectivity-verified

Easy IP Connection: NDI | HX Capable – Live Video Services NDI | HX is enabled when optional NDI | HX licence is purchased from NewTek

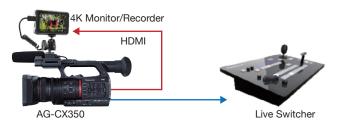
The AG-CX350 is the industry's first camcorder to support NDI | HX.* Equipped with NDI | HX mode, it allows video transmission and camera control via IP connection, without using an external converter. When connected to a system configured with the AV-HLC100 Live Production Center and HN/UN series PTZ integrated cameras, the AG-CX350 realizes end-to-end live video production of live events as well as web distribution.

• NDI | HX, a technology of NewTek, Inc.

* Recording, streaming and 4K output are not available when using NDI | HX mode. Industry's first camcorder to support NDI | HX. As of June 2019 (according to a Panasonic survey). To use this function, an activation keycode from NewTek is required. Keycodes can be purchased from the following website: http://new.tk/ndi_panasonic

TC Synchro Multi-Camera Recording Supported

The TC IN/OUT terminal (BNC) allows synchronization of the time code in multi-camera shooting. The camera number (A to Z) can be added* to the name of the recording folder to facilitate editing. * Only when the MOV codec is used for recording. Setting must be made in each camera.



Parallel Output of SDI and HDMI

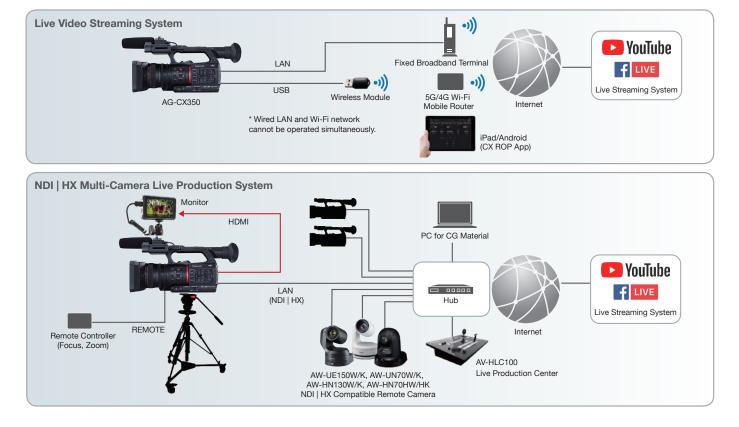
SDI and HDMI can be output in parallel. Output of UHD video via HDMI and output of HD video in high-image-quality 10-bit, 4:2:2 via SDI enable a variety of uses. In HLG shooting, either HDR or SDR can be selected for each of the SDI, HDMI and LCD video outputs.

Low Power Consuming, Large-Capacity Battery, Quick Charge

The AG-CX350 boasts low power consumption of 11.5 W (in factory setting, with no devices connected to the terminals), which is the industry's lowest in the UHD/HD 10-bit recording professional camcorder segment. The maximum power consumption is only 17 W (HEVC recording, LCD turned ON, devices connected to the terminals).¹ With the supplied battery pack (5900 mAh), the AG-CX350 operates continuously for about 3 hours and 20 minutes. This large-capacity battery pack supports quick charges.^{*2} For product details, see page 6.

*1: As of October 2019. According to a Panasonic survey.

*2 Quick charge is possible only when the AG-BRD50 battery charger is used.



Workflow

Options



AG-VBR118G (11,800 mAh) Battery Pack



AG-VBR89G (8,850 mAh) Battery Pack



AG-VBR59 (5,900 mAh) Battery Pack

Available Battery Pack



AG-BRD50 Battery Charger



VW-VBD58 (5,800 mAh) Battery Pack



AG-B23 Battery Charger

Battery	Voltage/Capacity	Charge Time	Continuous Shooting Time
AG-VBR59 (bundle)	7.28 V 5900 mAh 43 Wh	Approx. 3 hours 20 min.	Approx. 3 hours 20 min.
AG-VBR89G	7.28 V 8850 mAh 65 Wh	Approx. 4 hours	Approx. 5 hours
AG-VBR118G	7.28 V 11800 mAh 86 Wh	Approx. 4 hours 40 min.	Approx. 6 hours 40 min.
VW-VBD58	7.2 V 5800 mAh 42 Wh	Approx. 5 hours 20 min.	Approx. 3 hours 10 min.

*When using bundled battery charger.



AG-MC200G XLR Microphone



AJ-WM50 Wireless Module *Not available in some areas



Connection confirmed wireless module (including third-party products) https://pro-av.panasonic.net/en/sales_o/p2/ server/wireless_module.html





AJ-P2M064BG Memory Card "microP2 card B series"



SDHC/SDXC Memory Card *

* UHS Speed Class 3 (U3) SD memory card is necessary for video recording of 100 Mbps or more. UHS Speed Class 3 (U3) SDXC memory card of 64 GB or more is necessary for video recording of UHD2160/59.94p/50.00p 150 Mbps.

General

General			
Power:	DC 7.28 V (when the battery is used) DC 12 V (when the AC adaptor is used)		
Power Consumption:	17 W (when the LCD monitor is used) 11.5 W (1080i / 422ALL-I 100M recording, when the LCD monitor is used, no external device connection)		
Operating Temperature	e: 0 °C to 40 °C (32 °F to 104 °F)		
Operating Humidity:	10 % to 80 % (no condensation)		
Weight:	Body: approx. 1.9 kg (4.19 lb) (body only, excluding lens hood, battery, and accessories) Shooting: approx. 2.3 kg (5.07 lb) (including lens hood, battery, and microphone holder)		
Dimensions:	180 mm (W) x 173 mm (H) x 311 mm (D) (7-1/8 inches x $6-13/16$ inches x 12-1/4 inches) (excluding protrusion and eye cup)		
Camera Unit			
Pickup Device:	1.0-type (effective size) MOS solid state image sensor		
Effective Pixels:	15,030,000 pixel		
Lens:	Optical image stabilizer lens, optical 20x motorized zoom F value: F2.8 to F4.5 Focal length: f=8.8 mm to 176 mm 35 mm equivalent: 24.5 mm to 490 mm Filter Diameter: 67 mm ND Filter: Clear, 1/4, 1/16, 1/64 IR Filter: Incorporates the ON/OFF control function Shortest Shooting Distance (M.O.D.): Approx. 10 cm (W), 1.0 m (T) from the front lens		
Gain Setting:	L/M/H selector switch -3 dB to 18 dB (Adjustable in 1 dB steps) 24 dB, 30 dB, 36 dB switched (when assigning [S. GAIN] to the USER button)		
Color Temperature Se	tting: ATW, ATW LOCK, A ch, B ch, preset 3200 K/preset 5600 K/VAR (2000 K to 15000 K)		
Shutter Speed:	When [SYSTEM MODE] = 59.94 Hz • 59.94i/59.94p mode: 1/60 sec. (shutter off), 1/100 sec., 1/120 sec., 1/250 sec., 1/500 sec., 1/1000 sec., 1/2000 sec., 1/4000 sec., 1/8000 sec., 1/1000 sec., • 29.97p mode: 1/30 sec., 1/500 sec. (shutter off), 1/60 sec., 1/100 sec., 1/4000 sec., 1/250 sec., 1/500 sec., 1/1000 sec., 1/4000 sec., 1/250 sec., 1/1000 sec., • 23.98p mode: 1/24 sec., 1/48 sec., 1/50 sec. (shutter off), 1/60 sec., 1/100 sec., 1/120 sec., 1/250 sec., 1/500 sec., 1/1000 sec., 1/200 sec., 1/4000 sec., 1/200 sec., 1/1000 sec., 1/200 sec., 1/4000 sec., 1/8000 sec., 1/1000 sec., 1/200 sec., 1/4000 sec., 1/8000 sec., 1/1000 sec., 1/250 sec., 1/500 sec., 1/1000 sec., 1/200 sec., 1/8000 sec., 1/1000 sec., 1/200 sec., 1/250 sec., 1/1000 sec., 1/250 sec., 1/250 sec., 1/1000 sec., 1/200 sec., 1/250 sec., 1/1000 sec., 1/200 sec., 1/250 sec., 1/1000 sec., 1/200 sec., 1/250 sec., 1/200 sec., 1/200 sec., 1/200 sec., 1/1000 sec., 1/200 sec., 1/200 sec., 1/1000 sec., 1/200 sec., 1/200 sec., 1/1000 sec., 1/200 sec., 1/250 sec., 1/500 sec., 1/1000 sec., 1/4000 sec., 1/8000 sec., 1/1000 sec.		
(Slow Shutter)	 Witer 151 STEM MODE: 1/1 sec., 1/2 sec., 1/4 sec., 1/6 sec., 1/15 sec., 1/30 sec. 29.97p mode: 1/1 sec., 1/2 sec., 1/4 sec., 1/6 sec., 1/15 sec. 23.98p mode: 1/1 sec., 1/2 sec., 1/4 sec., 1/6 sec., 1/12 sec. When [SYSTEM MODE] = 50.00 Hz 50i/50p mode: 1/1 sec., 1/2 sec., 1/4 sec., 1/6 sec., 1/12 sec. 25p mode: 1/1 sec., 1/2 sec., 1/4 sec., 1/6 sec., 1/12 sec. 25p mode: 1/1 sec., 1/2 sec., 1/4 sec., 1/6 sec., 1/12 sec. 		
Shutter Speed: (Synchro Scan)	When [SYSTEM MODE] = 59.94 Hz • 59.94i/59.94p mode: 1/60.0 sec. to 1/7200 sec. • 29.97p mode: 1/30.0 sec. to 1/7200 sec. • 23.98p mode: 1/24.0 sec. to 1/7200 sec. When [SYSTEM MODE] = 50.00 Hz		
	 50i/50p mode: 1/50.0 sec. to 1/7200 sec. 25p mode: 1/25.0 sec. to 1/7200 sec. 		

VFR Recording Frame	Rate:			
	When [S) 1, 2, 4, 6, 34, 36, 40 When [S)	(STEM MODE] = 59.94 Hz 9, 12, 15, 18, 20, 21, 22, 24, 25, 26, 27, 28, 30, 32 0, 44, 48, 54, 60 (fps) (STEM MODE] = 50.00 Hz		
		9, 12, 15, 18, 20, 21, 22, 23, 24, 25, 26, 27, 28, 30 7, 42, 45, 48, 50 (fps)		
Super Slow Recording:	When [S) 1920 x 10 When [S)	/STEM MODE] = 59.94 Hz)80 (FHD): shooting frame rate 120 fps /STEM MODE] = 50.00 Hz)80 (FHD): shooting frame rate 100 fps		
Sensitivity:	When [HIGH SENS.] mode F12 (2000 lx, 3200 K, 89.9 % reflect, 2160/59.94p, 1080/59.94 F13 (2000 lx, 3200 K, 89.9 % reflect, 2160/50p, 1080/50i)			
Horizontal Resolution:		or higher (UHD: center) or higher (FHD: center)		
i.Zoom:	x 32 (FH	D), x 24 (UHD)		
Digital Zoom:	x 2/ x 5/	x 10		
Lens Hood:	Hood wit	h lens cover		
Memory Card Re	corder			
Recording Media:	SDXC me UHS-I/UH Video Sp microP2	emory card (4 GB to 32 GB), emory card (32 GB to 128 GB) HS-II UHS Speed Class 3 supported, eed Class V90 supported card (A series, B series) e page 11 for the "Available Memory Card" table.		
Recording Slot:		SDXC UHS-II card slot x 2		
Recording Pixels:	3840 x 2160 (UHD), 1920 x 1080 (FHD), 1440 x 1080 (HD)*, 1280 x 720 (HD), 720 x 480 (SD), 720 x 576 (SD)			
System Frequency:	59.94 Hz	/50.00 Hz		
Recording File Format	MOV (AV	C), MOV (HEVC), AVCHD, P2 MXF		
Recording Format:	Please se	ee page 6 for the "Recording Format" table.		
Recording Time:	Please see page 11 for the "Recording Time" table.			
2 Slot Functions:	Relay Re	c, Simultaneous Rec, Background Rec		
Special Recording Fun		Interval Rec, Time Stamp		
Digital Video				
Quantization:	MOV: AVCHD: P2:	4:2:2 10 bit/4:2:0 8 bit/4:2:0 10 bit (HEVC) 4:2:0 8 bit 4:2:2 10 bit/4:2:0 10 bit (AVC-intra50)*/ 4:2:0 8 bit (AVC-LongG12)		
Video Compression Fo	ormat: MOV:	H.264/MPEG-4 AVC High Profile		
	P2:	H.265/MPEG-H HEVC Main10 Profile AVC-Intra422/AVC-LongG 50/AVC-LongG 25/		
	P2*:	AVC-LongG 12 : MPEG-4 AVC/H.264 High Profil AVC-Intra200/AVC-Intra100/AVC-Intra50 : MPEG-4 AVC/H.264 Intra Profile		
Digital Audio				
Recording Audio Signal:	MOV:	48 kHz/24 bit, 4 ch, Linear PCM		
0 0	AVCHD: P2:	48 kHz/16 bit, 2 ch, Dolby Audio™ 48 kHz/24 bit, 4 ch, Linear PCM (In AVC-LongG12, 48 kHz/16 bit, 4 ch)		
Headroom:	12 dB/18	dB/20 dB switchable (menu)		
Live Streaming				
Video Compression Fc		PEG-4 AVC Main Profile, High Profile		
Video Resolution:	1920 x 10	080 (FHD), 1280 x 720 (HD), 50, 320 x 180		
Streaming Method:	Unicast, I	Multicast		
Frame Rate:		requency = 59.94 Hz: 24 fps, 30 fps, 60 fps requency = 50.00 Hz: 25 fps, 50 fps		
	24 Mbps, 20 Mbps, 16 Mbps, 14 Mbps, 8 Mbps, 6 Mbps, 4 Mbps, 3 Mbps, 2 Mbps, 1.5 Mbps, 1 Mbps, 0.7 Mbps, 0.5 Mbps			
Bit Rate:	6 Mbps,			
Bit Rate: Audio Compression Fo	6 Mbps, 1 Mbps, ormat:			

Video Output	
SDI OUT:	BNC x 1, SDI REC REMOTE supported HD: 0.8 V [p-p], 75 Ω SD: 0.8 V [p-p], 75 Ω, Output format (4:2:2 10 bit): • 1920 x 1080: 59.94p, 50p, 59.94i, 50i, 29.97Psf, 25Psf, 23.98PsF • 1280 x 720: 59.94p, 50p • 720 x 480: 59.94i • 720 x 576: 50i
HDMI OUT :	HDMI x 1, Type A, HDMI REC REMOTE supported, VIERA Link not supported Output format (4:2:2 10 bit):

	• 3840 x 2160: 59.94p, 50p, 29.97p, 25p, 23.98p • 1920 x 1080: 59.94p, 50p, 59.94i, 50i, 29.97p, 25p, 23.98p • 1280 x 720: 59.94p, 50p
	• 720 x 480: 59.94p • 720 x 576: 50p
VIDEO OUT:	3.5 mm diameter mini jack, composite 1.0 V [p-p], 75 Ω

Audio Input/Output

Built-in Microphone:	Stereo microphone			
Input 1/2:	XLR (3-pin) x 2 (INPUT1, INPUT2) Input high impedance, LINE/MIC/MIC+48V (switchable SW) MIC: -40 dBu/-50 dBu/-60 dBu (switchable menu) LINE: +4 dBu/0 dBu (switchable menu)			
SDI OUT:	Linear PCM 4 ch			
HDMI OUT:	Linear PCM 2 ch			
Headphone:	3.5 mm diameter stereo mini jack x 1			
AV OUT:	3.5 mm diameter stereo mini jack x 1, Output level: 600 Ω , 316 mV			
Speaker:	20 mm diameter, round x 1			

Other Input/Output

TC IN/OUT:	BNC x 1, Used as the input and output terminals (switchable menu) Input: 1.0 V to 4.0 V [p-p] 10 k Ω Output: 2.0 V \pm 0.5 V [p-p] low impedance		
REMOTE:	2.5 mm diameter super mini jack		
LAN:	RJ-45: 1000BASE-T/100BASE-TX/10BASE-T NDI HX supported* *To use this function, an activation keycode from NewTek is required. Keycodes can be purchased from the following website: http://new.tk/ndi_panasonic		
USB 2.0 HOST:	Type-A, 4-pin (5 V, 0.5 A) for Wireless Module (option)		
USB 3.0 DEVICE:	USB 3.1 GEN1 Type-C, USB Mass storage function No USB bus power function		
DC IN 12V:	DC 12 V EIAJ Type 4		
Monitor/Viewfin	der		
LCD Monitor:	3.5 type TFT LCD color monitor (3:2), approx. 1,620,000 dots, Touch panel video display (16: 9) area: Approx. 1,370,000 dots		
Viewfinder:	0.39 type OLED (organic EL display), approx. 2,360,000 dots video display (16: 9) area: approx. 1,770,000 dots		

Included Accessories

Battery (AG-VBR59), Battery charger (AG-BRD50), AC adaptor, AC cable, Microphone holder kit, Shoulder strap, Eye cup, Lens hood", Grip belt' and Operating instructions (Items marked by an asterisk (*) come already attached to the camera)

Available Memory Card

Format	Memory Card Type		Bit Rate / Recording Function	Speed Class
			400 Mbps	
			FHD ALL-I VFR (23.98p)/super slow	Video Speed Class V60 or faster
	SDXC memory card/ microP2 card B series	microP2 card A series (64 GB)	200 Mbps	Video Speed Class V30 UHS Speed Class 3 or faster
			150 Mbps	
MOV			100 Mbps	
			FHD LongG VFR/super slow	
			FHD ALL-I VFR (59.94o/50p/29.97p/25p)	
			50 Mbps	Video Speed Class V10 UHS Speed Class 1 Speed Class 10 or faster
AVCHD	SDHC/SDXC memory card/microP2 card		All	Speed Class 4 or faster
P2*	microP2 card		All P2 recording modes supported by the AG-CX350*	_

*Use a microP2 card for recording in P2 format.

Recording Time

Recording Format			microP2 Card 64 GB SDXC/SDHC Memory Card	128 GB SDXC/SDHC Memory Card
		400 Mbps	Approx. 20 min.	Approx. 40 min.
		200 Mbps	Approx. 40 min.	Approx. 1 hour 20 min.
MOV	UHD	150 Mbps	Approx. 55 min.	Approx. 1 hour 50 min.
(AVC, HEVC)		100 Mbps	Approx. 1 hour 20 min.	Approx. 2 hours 40 min.
	FUE	100 Mbps	Approx. 1 hour 20 min.	Approx. 2 hours 40 min.
	FHD	50 Mbps	Approx. 2 hours 40 min.	Approx. 5 hours 20 min.
	PS		Approx. 5 hours 20 min.	Approx. 11 hours
	РН		Approx. 6 hours	Approx. 12 hours 30 min.
AVCHD	HA		Approx. 8 hours 30 min.	Approx. 17 hours
	PM		Approx. 17 hours 10 min.	Approx. 35 hours
	SA		Approx. 16 hours 30 min.	Approx. 34 hours
	AVC-Intra422/AVC-Intra200*1		Approx. 32 min.	_
	AVC-Intra100*1 (1080-59.94i/50i or 720-59.94p/50p)*2		Approx. 1 hour 4 min.	_
	AVC-Intra50*1		Approx. 2 hours 8 min.	-
P2 MXF	AVC-LongG50		Approx. 2 hours 8 min.	-
	AVC-LongG25 (1080-59.94i/50i or 720-59.94p/50p)*2		Approx. 4 hours 16 min.	_
	AVC-LongG12 (1080-59.94i/50i or 720-59.94p/50p)*2		Approx. 8 hours	_

*1: AVC-Intra200/100/50 codec will be supported in the future. *2: The recording time decreases to one-half when recorded in 1080-59.94p/50p.

Notes Regarding Network Functions

•For wireless LAN connection: The optional wireless module is required. For the OS, browser, device compatibility information, see "Service and Support" on the Panasonic website https://pro-av.panasonic.net/. Some functions are not supported by some devices.

.For streaming: PC must be able to access directly each other by Public IP (Global IP). Please contact your provider to get Public IP (Global IP).

Notes regarding the handling of p2 files using a PC

Mounting and Transferring Files

The PC must be installed with the included P2 driver in order to recognize, copy and transfer P2 files. This driver is also necessary when using the PC card slot and when handling P2 files stored on a hard-disk device, such as P2 store. For other operating requirements, refer to the P2 installation manual. The P2 driver and the P2 installation manual can be downloaded free from a Panasonic website. Visit https://pro-av.panasonic.net/en/download/

Preview and Nonlinear Editing

To preview (play) P2 files on a PC, it is necessary to install P2 Viewer Plus software (downloadable for free, for Windows and Mac), both from Panasonic, or P2-compatible editing software available from other companies (for details, visit https://pro-av.panasonic.net/en/sales_o/p2/partners.html). Note that each software places specific requirements on the operating environment, and the operating environment must meet additional requirements to play and edit HD content on Windows PCs and Macs. For P2 Viewer Plus download and operating requirement information, visit https://pro-av.panasonic.net/en/sales_o/p2/partners.html). Note that each software places specific requirements on the operating environment, and the operating environment must meet additional requirements to play and edit HD content on Windows PCs and Macs. For P2 Viewer Plus download and operating requirements information, visit https://pro-av.panasonic.net/en/download/). For operating requirements and details of other P2 editing software, visit the website of the relevant software manufacturer.

Note Regarding 24 bit Audio

Clips recorded using 24 bit audio must be played back with 24 bit compatible P2 equipment or the P2 Viewer/P2 Viewer Plus. If clips are played back with equipment not compatible with 24 bit audio, the clip number will be indicated in red and the clips will not be played back. A P2 Viewer not compatible with 24 bit audio will not reproduce the sound properly. To play back those clips, use the latest version of P2 Viewer/P2 Viewer Plus. For the latest information on 24 bit compatible P2 equipment and P2 Viewer/P2 Viewer Plus, see "Support & Download" on the Panasonic website https://pro-au.panasonic.net/s.

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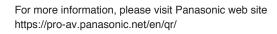


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Factories of AVC Networks Company have received ISO14001:2004-the Environmental Management System certification. (Except for 3rd party's peripherals.)













Broadcast and Professional AV Website

Contact Information

Facebook

Mobile App