Panasonic CONNECT

HD Broadcast Camera

VariCam HS

Professional digital video camera revolutionising the Way Emotion is Created

Key Features

- 2/3-type 2.2-megapixel 3MOS sensor
- 240fps Variable Frame Rate Recording -- 1 fps to 240 fps
- In-camera color grading and Double Recorder with Dual Codec Recording
- Wide dynamic range 14 stops of latitude
- Apple ProRes 4:4:4:4 and ProRes HQ Built-in

ProRes micro P2 AVC ULTRA

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https://eu.connect.panasonic.com/no/en/products/broadcast-proav/varicam-hs

General (Combination of AU-V23HS1G and AU-VREC1G)	
Power	DC 12 V(11.0 V - 17.0 V)
Power Consumption	60 W (Body only) 90 W (with all optional accessories connected and maximum power supplied from each output terminal)
Operating Temperature	0°C to 40°C
Operating Humidity	10% to 85% (relative humidity)
Storage Temperature	-20°C to 60°C
Weight	Approx. 4.5 kg (Excluding protrusion)
Dimensions (W x H x D)	179 mm x 230.5 mm x 347 mm (7-1/16inches x 9-1/16inches x 13 -21/32inches) (Body only, excluding protrusion)
Camera Module (AU-V23HS1G)	
Pickup Devices	2/3-type 2.2 million pixels, MOS x 3
Lens Mount	2/3-type bayonet
Optical Filter	CC filter A: 3200 K, B: 4300 K, C: 5600 K, D: 0.3ND ND filter 1: CLEAR, 2: 0.6ND, 3: 1.2ND, 4: 1.8ND
Gain Settings	[ISO] mode: ISO 2500 to 12800 [dB] mode : 0 to 18 dB (3dB step)
Shutter Speed	[deg] mode: 1.0 to 360deg (0.5deg step) [sec] mode: 1/24 to 1/250 (when 23.98p mode)
Sensitivity	[Gamma: HD] mode: F9 (2000 lx, 3200 K, 89.9% reflection, 1080/59.94p) F10 (2000 lx, 3200 K, 89.9% reflection, 1080/50p)
Holizontal Resolution	1000 TV lines or higher (center)
Recording Module (AU-VREC1G) When it is used with AU-V23HS1G	
Memory Card Recorder	
Recording Media	expressP2 card, P2 card, microP2 card
Recording Resolution	1920x1080, 1280x720
Recording Framerate	Maximum 240p/200p
System Frequency	59.94p, 50p, 29.97p, 25p, 23.98p, 59.94i, 50i
Recording Format	Main Recorder: AVC-Intra100, ProRes 422 HQ Sub Recorder: AVC-Intra100, AVC-LongG50, AVC-LongG25
Recording Video Signal	1080/59.94p, 50p, 29.97p, 25p, 23.98p, 59.94i, 50i 720/59.94p, 50p
Recording Time (Main Codec)	When expressP2 card 256 GB is used *1 Approx. 128 min. (AVC-Intra100, VFR OFF) Approx. 32 min. (AVC-Intra100, VFR ON, 200 fps/240 fps) Approx. 60 min. (ProRes 422 HQ, VFR ON, 60 fps)
Recording Time (Sub Codec)	When microP2 card 64 GB is used *1 Approx. 64 min. (AVC-Intra100, 25p/29.97p) Approx. 128 min. (AVC-LongG50, 25p/29.97p) Approx. 256 min. (AVC-LongG25, 25p/29.97p)
Digital Video	
Quantizing	10 bit
Video Compression Format	AVC-Intra100: MPEG-4 AVC/H.264 Intra Profile AVC-LongG50/AVC-LongG25: MPEG-4 AVC/H.264 ProRes 422 HQ
Digital Audio	
Recording Audio Signal	48 kHz/24 bit, 4 ch Head room 18 dB/20 dB menu switchable
Proxy	
File Format	MOV
Video Compression Format (Proxy)	H.264/AVC High Profile
Audio Compression Format	LPCM
Recording Time (1GB)*1	Approx.25 min.
Video Input/Output	
SDI Out	HD (1.5G)/3G SDI: 0.8 V[p-p], 75 ohms (1 set, 4 pieces)
MON Out1	HD (1.5G)/3G SDI: 0.8 V[p-p], 75 ohms

MON Out2	HD (1.5G)/3G SDI: 0.8 V[p-p], 75 ohms
VF SDI	HD (1.5G)/3G SDI: 0.8 V[p-p], 75 ohms
Audio Input/Output	
Audio In (CH1/CH2)	XLR x 2, 3 pin, LINE/MIC/MIC+48V/AES switchable
MIC In	XLR x 1, 5 pin
Phones	Stereo mini jack
Speaker	20 mm diameter, round x 1
Other Input/Output	
Genlock In	HD (1.5G) /3G-SDI: 0.8 V [p-p] , 75 ohms
TC In/Out	BNCx1, IN/OUT switch selection IN: 0.5 V[p-p] to 8 V[p-p], 10 k ohms OUT: 2.0 ± 0.5 V[p-p], Low impedance
DC In	XLR 4 pin, DC12 V (DC 11.0 V to 17.0 V)
DC Out/RS	4 pin, DC12 V (DC 11.0 V to 17.0 V), maximum output current 1.0 A
DC Out	2 pin, DC12 V (DC11.0 V to 17.0 V), maximum output current 1.0 A
Lens	12 pin
VF	14 pin
LAN	100BASE-TX/10BASE-T
USB 2.0 (Device)	Type B connector, 4 pin
USB 2.0 (Host)	Type A connector, 4 pin
Control Panel	
Display Panel	LCD, 3.5-type QHD color monitor Approx. 1.56 million dots
Electronic HD Color View Finder (AU-VCVF1G)	
Display Panel (Electronic HD Color View Finder)	OLED, 0.7-type, 2.76 million dots
Signal Input	1080/59.94p, 1080/50p, 1080/60p
Note	*1: These are reference values for continuous recording. The recording time may differ depending on the scene or number of clips. ProRes is licensed from Apple Inc. Apple ProRes codec from Atomos under license. Atomos is trademark and copyright of Atomos Global Pty. Ltd. The use of DCF Technologies is under license from Multi-Format, Inc.