

[Ratings/Performance]

	HL-V79W	HL-V75W	HL-V77W	HL-V77	HL-V73W	HL-V73
Camera Section						
[Ratings]						
Image Sensor	2/3" CCD×3 16.9 FIT TYPE 600,000 pixels(PAL) 520,000 pixels(NTSC)	2/3" CCD×3 16.9 IT TYPE 600,000 pixels(PAL) 520,000 pixels(NTSC)	2/3" CCD×3 16.9 FIT TYPE 600,000 pixels(PAL) 520,000 pixels(NTSC)	2/3" CCD×3 4.3 FIT TYPE 600,000 pixels(PAL) 520,000 pixels(NTSC)	2/3" CCD×3 16.9 IT TYPE 600,000 pixels(PAL) 520,000 pixels(NTSC)	2/3" CCD×3 4.3 IT TYPE 480,000 pixels(PAL) 400,000 pixels(NTSC)
Optical Filter	ND 100% 25% 6.2% 1.6% A B C D CC 3200K 4300K 6300K CROSS	3000K 5600K 5600K 5600K +6.2%ND +1.6%ND	ND 100% 25% 6.2% 1.6% A B C D CC 3200K 4300K 6300K CROSS		3000K 5600K 5600K 5600K +6.2%ND +1.6%ND	3000K 5600K 5600K 5600K +6.2%ND
Gain	-3, 0, +3, +6, +9, +12, +18, +30, +36, +42, +48dB			-3, 0, +6, +12, +18, +30, +36dB		
Lens Mount	Bayonet B3/B4		B4 (B3 optional)		Bayonet B3/B4	
Shutter (preset)	1/50(OFF:PAL), 1/60(OFF:NTSC), 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000sec.					
Variable Shutter(CVSS)	1/25.4~1/47.6, 1/50.4~1/120.1 sec.(PAL) 1/30.5~1/57.4, 1/60.5~1/174.8 sec.(NTSC)	1/50.3~1/78.1sec.(PAL) 1/60.3~1/78.7sec.(NTSC)	1/25.4~1/47.6, 1/50.4~1/120.1 sec.(PAL) 1/30.5~1/57.4, 1/60.5~1/174.8 sec.(NTSC)		1/50.3~1/78.1 sec.(PAL) 1/60.3~1/78.7 sec.(NTSC)	
Sampling Frequency	18MHz					PAL:14.5MHz NTSC:14.318182MHz
Quantization Bit	10bit					
Video Output	VBS 1Vp-p ±6dB 75Ω					
Monitor Output	VBS or VS 1Vp-p ±6dB 75Ω					
External Sync	VBS 1Vp-p ±6dB 75Ω or BBS 0.45Vp-p ±6dB 75Ω					
[Performance]						
Horizontal Resolution	700TV Lines		850TV Lines		700TV Lines	
Vertical Resolution	PAL: 450~570TV lines NTSC: 400~480TV lines (Super-V: OFF,Low, Middle,High,Super)	PAL: 450~570TV lines NTSC: 400~480TV lines (Super-V: OFF,Super)	PAL: 450~570TV lines NTSC: 400~480TV lines (Super-V: OFF,Low,Middle,High,Super)		PAL: 450~570TV lines NTSC: 400~480TV lines (Super-V: OFF,Super)	
Registration Error	0.03% or less(excluding lens aberration)					
S/N	61dB(PAL), 63dB(NTSC)					
Sensitivity	f 9.0 2000 lx	f 11 2000 lx	f 9.0 2000 lx		f 11 2000 lx	f 8.0 2000 lx
Minimum Illumination	0.25 lx approx. (f 1.4 lens +48dB)	0.12 lx approx. (f 1.4 lens +48dB)	1 lx approx. (f 1.4 lens +36dB)		0.5 lx approx. (f 1.4 lens +36dB)	1 lx approx. (f 1.4 lens +36dB)
VTR Section(Video)						
[Ratings]						
Recording Format	DVCPRO50 format 4:2:2 8bit 1/3.3 digital compression			DVCPRO25 format 4:1:1 8bit 1/5 digital compression		
Tape	1/4" DVCPRO metal tape(M cassette)					
Tape Speed	67.70mm/sec.(PAL), 67.64mm/sec.(NTSC)			33.85mm/sec.(PAL), 33.82mm/sec.(NTSC)		
Recording/Playback Time	33min.approx.(with M cassette)			66min.approx.(with M cassette)		
Fast-Forward Time	3min.approx.					
Rewinding Time	3min.approx.					
[Performance(with standard playback machine)]						
Bandwidth	PAL:Y:25Hz~5.75MHz +1.0/-3dB NTSC:Y:30Hz~5.75MHz~ +1.0/-3dB					
S/N	55dB or less					
K Factor (2T)	2% or less					
Y/C Delay	30ns or less			20ns or less		
VTR Section (Audio)						
[Ratings]						
Recording Format	PCM 48kHz,16-bit sampling					
[Performance(with standard playback machine)]						
Frequency Response	20Hz~20kHz ±1dB					
Dynamic Range	85dB (1kHz emphasis ON,AWTD)					
Distortion	Within0.1%					
Wow-Flutter	Below measurable limit					
Head Room	18dB(PAL), 20dB(NTSC)					
Emphasis	T1=50μs, T2=15μs(ON/OFF selectable)					
Common Section						
[Ratings]						
Power Requirement	DC+12V(+11V~+17V) DC IN connector:XLR-4 (male)					
Power Consumption (DC+12 with 1.5" VF at VCR recording)	29W approx.(PAL) 28W approx.(NTSC)	28W approx.(PAL) 27W approx.(NTSC)	29W approx.(PAL) 28W approx.(NTSC)	28W approx.(PAL) 27W approx.(NTSC)	26W approx.(PAL) 25W approx.(NTSC)	
Ambient Temperature	Operating temperature:0°C~+40°C /Storage temperature:-20°C~+60°C					
Humidity	85% or less(without moisture condensation)					
Dimensions	W122.8×H200×D326mm			W118×H200×D326mm		
Weight	4.5kg approx.(including1.5"VF)					

DVCPRO50 Digital Camera/Recorder Series

HL-V79W/HL-V75W

DVCPRO Digital Camera/Recorder Series

HL-V77/HL-V77W

HL-V73/HL-V73W



Design and specifications are subject to change without notice.

* NTSC versions are no available with CE Mark.

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DVCPRO 50

DVCPRO

Cutting Edge News Gathering and Field Production

A marriage of Ikegami's digital video technology and DVCPRO Series digital VTR. In addition to the world-wide best-selling DVCPRO, now DVCPRO50 with 4:2:2 encoding is ideally suited for high-end productions.

Ikegami's state-of-the-art camera technology, enhances quality for DVCPRO. Various models, will satisfy every professional's requirements.



DVCPRO/DVCPRO50 ... VTR Section Supports Portability and High Image Quality

- The VTR section comes in : DVCPRO or DVCPRO50.
- High-quality video is recorded on a compact news-gathering cassette, which is one quarter in volume and one sixth the weight of a conventional 1/2-inch cassette. Audio is recorded in PCM format with a sampling frequency of 48kHz/16 bits.
- The VTR section of the HL-V79W/V75W complies with the DVCPRO50 format. This cassette, built in a compact body similar to that of the DVCPRO, delivers a video recording rate of 50Mbps by doubling the tape speed. A recording rate of 50Mbps (compression ratio of 1/3.3), a high-quality video of 4:2:2 signal processing, and video/audio recording with four channels of digital sound can be achieved. Thus, it caters not only to ENG applications, but also to higher-end program production applications, such as drama production and EFP.
- The HL-V77/V77W/V73/V73W support the DVCPRO25 format. A high-quality digital component video signal is compressed by a factor of 5(4:1:1/8 bits) to permit long-running recording of up to 66 minutes with gripping picture quality that surpasses that of on analog VTR.
- In addition to the video captured by the camera, an external source can also be recording (NTSC only).
- By touching the "return" button on the lens, recorded video can be checked with the camera mounted on your shoulder. Full-colour recorded video and audio can be replayed with no playback adapter.
- A SMPTE timecode generator is incorporated. FREE RUN/REC RUN and DF/NDF (PAL:NDF only) are selectable. User's Bit is also available.



The camera section features digital processing from Ikegami's next-generation ASICs. It is designed for maximum camera performance inherited from the HL Series, while taking full advantage of DVCPRO's characteristics. DVCPRO all-in-one digital portable cameras are tailored to cover various applications, from news gathering to production, with operating versatility and outstanding picture quality.

High Image Quality and High Performance of Ikegami's HL Series

- Digital processing is incorporated using next-generation ASICs, with 10-bit A-to-D. Because all processing after PRE KNEE is digitized, video with wide dynamic range and superior S/N ratio is assured.
- +48dB HYPER GAIN function is employed so that a wide variety of shooting conditions and applications can be accommodated (HL-V79W/V75W).
- In addition to six preset shutter modes, CVSS (Continuously Variable Shutter Speed) is featured.
- Super-V enhances the vertical resolution. With the HL-V79W/V77/V77W, in particular, vertical resolution is variable in five steps.
- A host of DTL functions are employed : Diagonal DTL, Skin DTL and Soft DTL, as well as 8-step variable boost frequency. These digital-specific functions give maximum creative and artistic freedom for versatile operation.
- RGB DTL is adopted to increase the resolution of each colour of red and blue (HL-V79W/V75W/V77/V77W/V73W).
- The HL-V79W/V77/V77W comes equipped with independent ND/CC filters.

Portability and Operability Ideally Suited for ENG Operation

- The camera body weighs about 4.5 kg, including the viewfinder. The whole operating configuration, including the lens, battery, and microphone, weighs about 6.5kg, and is well-balanced, low-center-of-gravity.
- The shoulder pad can be easily adjusted forward and backward, without using a screwdriver.
- Rotary pulse switches are located on the front panel of the camera. Various camera settings, such as shutter speed and Super-V, can be accomplished with ease, while viewing the character display in the viewfinder.
- The switch panel on one side of the camera contains rotary encoders for camera setup. This facilitates simple camera adjustment and maintenance without the aid of a remote control panel.
- A built-in wireless receiver (option) may be installed in the rear of the camera body for cableless operation.



System Operation Tailored to High-End Video Production

- Camera setup is simplified by saving the camera operating status in a memory card (SmartMedia: SSFDC, 2MB in capacity) and recalling the saved data (Standard on the HL-V79W/V75W/V73W, and an option on other models).
- P. FUNC (Personal Function) switch is provided (with the HL-V79W/V75W) to assign a frequent function, such as SCENE FILE, SOFT DTL, and BLACK PRESS/STRETCH, to the switch located on the right of the camera. An appropriate function for the current need can be selected, and activated or deactivated by an ON or OFF switch.
- AHD (Auto Hue Detect) function is available (with the HL-V79W/V75W) for instant selection of the skin colour, affected by SKIN DTL. The use of SKIN DTL is simplified for field use.
- A 1.5-inch high-performance viewfinder featuring 600 lines of horizontal resolution is employed. A rear tally is also provided on the rear of the VF. Ease of operation is improved by features such as simple adjustment of BRIGHTNESS, CONTRAST, and PEAKING through controls located on the front of the VF. The viewfinder can be moved along two axis from side-to-side (up to 40mm) and from front to back (up to 20mm), for comfortable positioning.
- 2-inch VF is available as an option.
- MENU can be customized so that the best operability for each cameraman is realized (HL-V79W/V75W).



- **HL-V79W** : 600,000-pixel (PAL), 520,000-pixel (NTSC)
2/3-inch FIT CCD (16:9/4:3 switchable) + DVCPRO50
- **HL-V75W** : 600,000-pixel (PAL), 520,000-pixel (NTSC)
2/3-inch IT CCD (16:9/4:3 switchable) + DVCPRO50
- **HL-V77** : 600,000-pixel (PAL), 520,000-pixel (NTSC)
2/3-inch FIT CCD + DVCPRO
- **HL-V77W** : 600,000-pixel (PAL), 520,000-pixel (NTSC)
2/3-inch FIT CCD (16:9/4:3 switchable) + DVCPRO
- **HL-V73** : 480,000-pixel (PAL), 400,000-pixel (NTSC)
2/3-inch IT CCD + DVCPRO
- **HL-V73W** : 600,000-pixel (PAL), 520,000-pixel (NTSC)
2/3-inch IT CCD (16:9/4:3 switchable) + DVCPRO