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HIDV

HDV
HDV 1080i

A Full Line of Canon HD Camcorders for Every Need.

If the job is High Definition content creation, Canon has the right tool. Canon HD camcorders reflect decades of leadership and know-how in the design and manufacture of cameras and lenses for broadcast video and still photography. Canon's advanced HD camcorder and optical engineering not only deliver the finest HD image quality, but also put at your fingertips the technologies that really matter—those that help you get the job done... with efficiency, excellence, and expression. Whether you are a seasoned video professional or a casual shooter, you can depend on Canon.



XLH1



XHG1



XHA1

HV10

XL H1

Image. Control. Integration.

The Canon XL H1 offers an unprecedented combination of superb image quality, wide-ranging image control, professional features and system interface options. It is an exceptional, affordable solution for a broad spectrum of HD applications, including: broadcast, ENG, documentary and feature filmmaking, corporate, and commercial video production.

Genuine Canon Optics

The 20x HD Zoom XL lens (5.4–108mm, equivalent to 38.9–778mm in 35mm photography) features Canon's world-renowned Fluorite glass and SR multi-coating technologies. It delivers unsurpassed detail resolution, contrast, and color. Two built-in Neutral Density filters reduce exposure by two or five stops for added image control. Focus and zoom presets provide added flexibility at the touch of a button.



HD Video Lens

Super-Range Optical Image Stabilizer

Canon's Optical Image Stabilizer (OIS) uses a gyro sensor to detect camera movement and activate a Vari-Angle Prism to continuously compensate for shake and jitter. The 20x HD Zoom XL lens incorporates Canon's Super-Range Optical IS technology, which further improves low-frequency vibration control by analyzing the image at the CCD sensor. The result is extraordinary camera shake correction, even at long focal lengths, without any of the image degradation that occurs with some electronic stabilization systems.



Optional 6x HD Wide Zoom XL Lens

The camera's XL lens mount system enables the use of optional interchangeable lenses, such as the new 6x HD Zoom XL 3.4–20.4mm L (equivalent to 24.5–147mm in 35mm photography). Fully HD-compatible and delivering Canon optical excellence, this lens is ideal for applications such as ENG and documentary shooting that frequently require a wider field of view.



Three Native 16:9 Sensors Delivering 1080 HD Resolution

The XL H1 incorporates a 3-CCD system with separate native 16:9 sensors for each primary color. With 1.67 million pixels (1,440 x 1,080) per sensor, the system delivers outstanding picture quality. They ensure highly accurate color with wide dynamic range and virtually no color noise. Moreover, the frame rate is selectable: Capture and output video in 60i, 30F or 24F as needed to deliver spectacular clarity or evoke the look and feel of film (optional 50i/25F upgrade available).



DiGiC DV II HD Image Processor

Engineered and manufactured by Canon, the DiGiC DV II HD Image Processor uses proprietary algorithms and architecture to deliver the highest image quality. The latest-generation DiGiC DV II HD Image Processor is optimized for HD video and digital still photography.



Comprehensive Creative Control

The XL H1 gives professional videographers total control, enabling HD capture with the perfect "look and feel." More than 23 variables are independently adjustable, and settings can be stored in six custom presets for instant recall. Additional custom presets (up to 20) can be recorded on an SD memory card for on-site storage or easy transfer to other XL H1 cameras, for example, in a multi-camera shoot.

The Professional JackPack

In addition to the XL H1's standard interface terminals (component, composite, S-Video, audio XLR, IEEE 1394, stereo headphone and LANC), it also features a versatile JackPack that facilitates integration in location and studio shooting situations. BNC connectors provide HD-SDI (SMPTE 292M) and SD-SDI (SMPTE 259M) uncompressed 1.485 gigabit/second output with 4:2:2 color sampling, Genlock input for multi-camera synchronization in live-switched environments and dedicated SMPTE time code input and output terminals for post-production requirements. The camera also generates industry-standard color bars and audio reference tone for setup in professional broadcast and post-production environments.



A Powerful, Customizable System

The XL H1 system design makes it highly adaptable—capable of a high degree of customization to meet the needs of diverse professionals. The XL interchangeable lens system is unique, providing videographers access to an extensive range of the finest optics. Canon also offers an EF Lens Adapter that enables the use of Canon's world-renowned EF SLR lenses, opening entirely new possibilities such as: super-telephoto wildlife, astronomy and surveillance shooting.



24F Workflow Solutions

24F Workflow solutions for the XL H1, XH G1 and XH A1 are available from: Apple, Avid*, Adobe and Canopus.

*Avid Adrenaline and above. Requires optional equipment. Contact Avid for details.

XH G1 XH A1

Your Vision...in High Definition.

Quality-conscious professional and advanced amateur videographers considering the move to HD now have a clear choice. The Canon XH G1 and XH A1 are compact, cost-efficient HD camcorders that deliver performance and features unmatched by other cameras in their class.

Genuine Canon 20x HD L Series Zoom Lens

Canon Professional L Series lenses are renowned for their optical performance. Incorporating Fluorite and Ultra-Low-Dispersion elements, the 20x HD Video Zoom lens on the XH G1 and XH A1 camcorders delivers stunning HD performance. It features Canon's Super-Range Optical Image Stabilizer and two built-in ND filters. Zoom range is 4.5–90mm (32.5–650mm in 35mm photography). An optional HD 0.8x wide angle adapter is available.



Manual Iris Ring

The XH G1 and XH A1 lens features a manual iris ring that enables fine, smooth adjustment in 1/8th-stop increments. The combination of the focus, zoom and iris rings on the lens creates the same "feel" as manual broadcast lenses—a feature preferred by many professional users.



Instant AF

Instant AF is Canon's next-generation autofocus technology. An external sensor works in combination with Canon's proven high-performance AF system to dramatically reduce focusing time, even in low-light situations.



DiGiC DV II HD Image Processor

Designed specifically for HD, Canon's DiGiC DV II HD Image Processor ensures optimal image quality. Color reproduction has been improved, especially in skin tone areas and with dark and light scenes. A new hybrid noise reduction system employs dual processes to deliver crystal clear High Definition images.



3-CCD Performance

As with the XL H1, the XH G1 and XH A1 employ 3-CCD systems with separate native 16:9 sensors for each primary color. With 1.67 million pixels (1,440 x 1,080) per sensor, the system delivers outstanding picture quality at 1,080 HD resolution. The frame rate is selectable, providing a choice of 60i, 30F or 24F output (optional 50i/25F upgrade available).



Customizable Image Control

The image, display and functionality of the camera can be customized to suit your preference or application. Achieve total image control with 23 image control variables, 21 custom display functions, and 32 custom operation functions that are independently adjustable. All items can be stored as one of 9 custom presets or 2 fast-access custom presets. Custom presets can be transferred to other XH G1 and XH A1 cameras via an SD memory card or Canon's Console version 1.1 Software.

XH G1 – Professional JackPack

The XH G1 features a JackPack to meet interface requirements in professional shooting situations. HD-SDI (SMPTE 292M) or SD-SDI (SMPTE 272M) output with 4:2:2 color sampling and embedded audio and time code greatly reduces cabling complexity. A Genlock input enables multi-camera synchronization in live-switched environments. A selectable SMPTE time code input/output terminal is also provided.



Canon Console Software

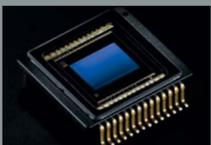


Canon Console Image Control and Storage Software Version 1.1 runs on a laptop or desktop computer and provides tools for creative expression, as well as remote access to all camera settings and operations. Functions, such as a vectorscope and waveform monitor, enable critical evaluation of the camera signal. Users can also capture the camera's video output directly to a computer's hard drive. Console is compatible with Canon XL H1, XH G1, XH A1, and XL2 camcorders.

HV10

True HD in Your Pocket

Incorporating some of the same technologies in Canon's professional series HD Camcorders, the HV10 is the world's smallest* and lightest HDV Camcorder. This consumer camcorder is perfect for capturing memories of family and friends. The HV10 delivers outstanding HD image quality and user-friendly features that are certain to impress even the most discerning videographer.



Canon Full HD CMOS Sensor

The HV10 features a Canon developed and manufactured 1,920 x 1,080 pixel HD CMOS sensor. Canon's proprietary CMOS sensor

technology offers: a higher signal to noise ratio for a cleaner picture, a drastic reduction in false color and smearing, and lower power consumption for longer battery life.



High Definition 10x Zoom Lens

Among Canon's many achievements in optics is the successful development of lenses that deliver superior performance in a small size. The HV10 is another example of Canon's advanced optical technologies, such as aspherical elements and Super Spectra multi-coating. The result is a highly compact 10x zoom lens that delivers the image detail and color accuracy required for high-quality HD video recording.



HD Video Lens

DiGiC DV II HD Image Processor

Canon's DiGiC DV II HD Image Processor is a miniature "super-computer" capable of processing the high volume of data required for HD recording. Whether shooting video or photos, the DiGiC DV II chip ensures optimal image quality. Color reproduction is highly accurate, especially in skin tone areas. A new hybrid noise reduction system delivers cleaner images.



Instant AF

An external sensor works in combination with Canon's proven high-performance AF system to dramatically reduce focusing time and increase accuracy, even in low-light situations.



Super-Range Optical Image Stabilizer

Despite its diminutive size, the HV10's zoom lens incorporates Canon's Super-Range Optical Image Stabilizer (OIS) system. In addition to a gyro sensor and lens shift correction, the technology employs image analysis techniques to further improve correction for camera shake and jitter. The result is steadier images—for both video and photos—even at longer focal lengths, without any of the image degradation that occurs with some electronic stabilization systems.



Full-Featured Canon Digital Still Camera

Inside the HV10 camcorder, is a full featured Canon digital still camera, allowing you to capture stunning 3.1 megapixel photos (2,048 x 1,536). The features available for still photography include: 9-point AiAF (Artificial Intelligence Auto-Focus); shutter-priority and aperture-priority metering modes; choice of evaluative, center-weighted, or spot metering; built-in flash with red-eye reduction; continuous ("motor drive") shooting capability; auto exposure bracketing; histogram display and EXIF recording and direct printing to PictBridge-compatible photo printers. When shooting video, press the photo button to record a 2.0 megapixel (1,920 x 1,080) photo to the memory card without interruption.

