

XF305/XF300 Specifications

IMAGING SENSOR

Effective Pixels: 1920 x 1080 pixels; Approx. 2.07 megapixels
Total Pixels: 2044 x 1160 pixels; Approx. 2.37 megapixels
Sensor Type: CMOS
Sensor Size: 1/3-inch
Number of Sensors: 3
Filter: Color Separation Prism plus Dichroic Filter

LENS

Zoom: 18x Optical zoom; 4.1 to 73.8mm (35mm equivalent 29.3 – 527.4); f/1.6-2.8. Zooming is possible using the zoom ring, grip zoom, handle zoom, wireless controller and LANC.

Zoom Speed: 3 modes; Fast (Approx 1.8 – 60s), Normal (Approx 2.5 – 180s), and Slow (Approx 4.5 – 300s)

Each mode has Constant and Variable settings. In Constant mode, there are 16 predefined steps and in Variable mode the speed is controlled by the pressure applied to the rocker switch.

Lens Configuration: 17 Elements in 14 groups
Image Stabilizer: SuperRange Optical Image Stabilizer; Lens Shift System. 4 modes (Standard, Powered, Dynamic, Off).

Zoom Ring: Electronic with mechanical end stops and focal length indicator.

Focus Ring: Electronic; Option for mechanical end stops and distance scale in Full Manual Focus mode

Minimum Focusing Distance: 1m, 20mm with wide macro

ND Filter: Built-in Glass ND Filter; 3 steps (1/4, 1/16, 1/64)

Iris Ring: Yes; Electronic

Aperture: 6-blade metal aperture leaves

Filter Diameter: 82mm

EXPOSURE AND METERING

Exposure Modes: Full Auto; Manual

Metering Modes*: Standard; Center-weighted metering; Spotlight; Backlight
Manual Gain:** 3 Settings (Low, Medium, High)

Auto Gain Control (AGC): Yes, with auto gain limiter

Shockless Gain: Available; Ensures switches in gain happen smoothly
AE Shift: Available

Exposure Compensation: Available; 2 stops in 1/4 stop increments.
Shutter Modes: 3 modes: OFF; ON; SEL (Only takes effect when Full Auto is off). Off mode: The shutter operates at the standard shutter speed which corresponds to the frame rate. On mode: The shutter operates at the speed selected in the SEL mode. SEL mode: Allows setting the shutter speed using Auto, Manual Speed Selection, Shutter Angle, Clear Scan, or Slow Shutter.

Shutter Speed Range:
60i: 1/60 to 1/2000; SLS: 1/4, 1/8, 1/15, 1/30; CS: 59.94 Hz – 250.70 Hz, 30P: 1/30 to 1/2000; SLS: 1/4, 1/8, 1/15; CS: 29.97 Hz – 250.70 Hz, 24P: 1/24 to 1/2000; SLS: 1/3, 1/6, 1/12; CS: 23.97 Hz – 250.70 Hz, Slow and Fast Motion mode: 1/18 to 1/2000

Shutter Angle Settings:
60i: 360, 240, 216, 180, 120, 90, 60, 45, 30, 22.5, 15, 11.25, 30P: 360, 240, 216, 180, 120, 108, 90, 60, 45, 30, 22.5, 15, 11.25, 24P: 360, 345.6, 288, 240, 180, 172.8, 144, 120, 90, 86.4, 72, 60, 45, 30, 22.5, 15, 11.25

Iris (Aperture) Range: f/1.6 to f/22 and closed in 1/8 steps
Push Auto Iris: Available; When Push Auto Iris button is pressed, aperture, shutter and gain are set automatically to achieve proper exposure.

FOCUS

Focus Settings: 3 settings: Autofocus, Manual, Full Manual***
Autofocus System: TVAF plus External Phase Difference Metering Sensor

AF Modes: 3 Modes: Instant AF, Normal AF, Face AF. Instant AF: Uses both the TTL-Video Signal Detection System and the External Sensor. Normal AF: Uses only the TTL-Video Signal Detection System. Face AF: Focuses in on faces when present and tracks focus on them. The face to track is user selectable.

Push AF: Available
AF Operating Range: Wide: 20mm to infinity; Full Zoom: 1m to infinity
AF Operation Illumination Range: Approx 50 Lux to 100,000 Lux

RECORDING/CODEC

Signal System: NTSC (PAL through optional upgrade at Canon Factory Service Centers)

Compression: MPEG-2 Long-GOP
Color Space: 4:2:2 at 50Mbps recording
Maximum Bit Rate: 50Mbps (CBR)

Recording Options:

Mode	Resolution	Frame Rate
50Mbps (CBR) 4:2:2	1920 x 1080	60i/30p/24p
50Mbps (CBR) 4:2:2	1280 x 720	60p/30p/24p
35Mbps (VBR) 4:2:0	1920 x 1080	60i/30p/24p
35Mbps (VBR) 4:2:0	1280 x 720	60p/30p/24p
25Mbps (CBR) 4:2:0	1440 x 1080	60i/30p/24p

Recording Time:

Card Capacity	Bit Rate		
CF Card	50 Mbps	35 Mbps	25 Mbps
2 GB	5 Minutes	5 Minutes	10 Minutes
4 GB	10 Minutes	10 Minutes	20 Minutes
8 GB	20 Minutes	25 Minutes	40 Minutes
16 GB	40 Minutes	55 Minutes	80 Minutes
32 GB	80 Minutes	110 Minutes	155 Minutes
64 GB	160 Minutes	225 Minutes	310 Minutes

Recording Media: CF Card (Type 1 Only); 2 Slots (Movie Files); UDMA supported. SD Card (Still Images, Custom Picture Data****, Clip Metadata, and Custom settings); MMC Cards not supported.

File Format: MXF

File System: FAT 32

Maximum Clip Number: 999 (per media)

AUDIO

Recording Format: Linear PCM; 2-Channel; 16-Bit; 48 kHz
Built-in Microphone: Stereo Microphone (Electret Condenser); with low cut filter. Microphone sensitivity selectable; Normal: 0dB, High: +6 dB

External Audio: 2 – XLR inputs (Auto and Manual level settings)
Recording Level Adjustment Range: - Infinity to +18dB

Phantom Power: Available; +48V

Headphone Adjustment: 16 Settings; Volume is muted at lowest setting

FEATURES AND PERFORMANCE

Playback: **Index Display:** Normal Index, OK Mark Index, Check Mark Index, Shot Mark Index, Expand Index, Photo Index. **Clip Playback:** Forward Search, Reverse Search, Forward Frame Advance, Frame Reverse, Record Review, Skip Playback, Slow Playback. **Playback Functions:** Copy CF A to B (Single Clip, OK Clips, All Clips) Clip Erasure (Single Clip, All Clips, Last Clip); Still Image Playback (Index, single playback, erasure, protect)

Slow and Fast Motion Recording: Available; Records at a different frame rate than the playback rate allowing for fast and slow motion effects: 50 Mbps - 1920 x1080 (Playback Rate: 30p/24p) Record Rate: 12, 15, 18, 20, 21, 22, 24, 25, 26, 27, 28, 30

50 Mbps - 1280 x 720 (Playback Rate: 60p/30p/24p) Record Rate: 12, 15, 18, 20, 21, 22, 24, 25, 26, 27, 28, 30, 32, 34, 36, 40, 44, 48, 54, 60

35 Mbps - 1920 x1080 (Playback Rate: 30p/24p) Record Rate: 12, 15, 18, 20, 21, 22, 24, 25, 26, 27, 28, 30

35 Mbps - 1280 x 720 (Playback Rate: 60p/30p/24p) Record Rate: 12, 15, 18, 21, 22, 24, 25, 26, 27, 28, 30, 32, 34, 36, 40, 44, 48, 54, 60

25 Mbps - 1440 x1080 (Playback Rate: 30p/24p) Record Rate: 12, 15, 18, 20, 21, 22, 24, 25, 26, 27, 28, 30

Waveform Monitor: Available
Vectorscope: Available

Exposure / Focus Aids: Peaking (2 types), Zebra Bars, Magnify, Edge Extraction, Black and White

Interval Record: Available; Ability to set time interval and number of frames to record. Interval can be set in 25 levels ranging from 1 second to 10 minutes. 60i/30p: Selectable between 1, 3, 6, 9 frames. 24p/60p: Selectable between 2, 6, 12 frames

Frame Record: Available; Records a set number of frames each time the record button is pressed. 60i/30p: Selectable between 1, 3, 6, 9 frames. 24p/60p: Selectable between 2, 6, 12 frames.

Scan Reverse: When using a Depth-of-Field Converter or other lens adapters, it flips or reverses the image automatically so it is recorded correctly.

Time Code: Drop Frame (DF) and Non-Drop Frame (NDF)
Time Code Modes: Regen, Record Run, Free Run and External Source†

Auto White Balance (AWB): Available
Custom White Balance: Available; 2,000K to 15,000K in 100K increments

Custom Picture Settings: Gamma, Black, Black Gamma, Low Key Saturation, Knee, Sharpness, Noise Reduction, Skin Detail, Selective Noise Reduction, Color Matrix, White Balance, Color Correction, Setup Level, Clip 100% IRE

Custom Functions: Available; Shockless Gain, Shockless White Balance, AE Response, Iris Limit, Iris Ring Direction, Focus Ring Control, Object Distance Unit, Zoom Indicator, ZR2000 AE Shift, Scan Reverse Recording, Character Record

Custom Display: Yes; LCD panel and EVF
Assign Buttons: 13; Can be assigned camera functions

Digital Teleconverter: Yes, Approximately 1.5x
Color Bars: Available
1 kHz Signal Tone: Available

Minimum Illumination: Full AUTO mode: 4.5 lux (Shutter speed 1/60, Gain +21 dB), Manual mode: 0.08 lux (Shutter speed 1/4, Gain +33 dB, 60i)

EVF

Type: 0.52-inch Color (Approx. 1,555,000 dots)
Aspect Ratio: 16:9

Viewing Angle Adjustment: Available; Viewing angle can be adjusted up and down

Diopter Adjustment Range: +2.0 to -5.5

Field of View Coverage: Approximately 100%

EVF Adjustments: Brightness, Contrast, Color, Sharpness and Backlight (Normal or Bright)

Special Features: Black and White Display, and setting for viewing concurrent images on display.

DISPLAY

Type: Rotating 4.0-inch Color LCD Monitor (Approx. 1,230,000 dots) switchable to either side of camera body

Aspect Ratio: 16:9

Field of View Coverage: Approximately 100%

Display Adjustments: Brightness, Contrast, Color, Sharpness and Backlight (Normal or Bright)

Special Features: Black and White Display, and setting for viewing concurrent images on display.

I/O

HD/SD SDI: Yes (with embedded audio); BNC Connector, output only SD-SDI: 480i: Compliant with SMPTE 259M, Embedded Audio: Compliant with SMPTE 272M, Time Code Standard: SMPTE 12M

HD-SDI: 1080i: Compliant with SMPTE 292M, 720p: Compliant with SMPTE 296M, Embedded Audio: Compliant with SMPTE 299M, Time Code Standard: SMPTE 12M.†

Time Code (In/Out): Yes; BNC Connector†
Genlock: Yes; BNC Connector (Input Only)†

HDMI: Yes (Type A)

Audio Input Terminal: 2 - XLR (Mic Level and Line Level)

Analog Audio Output: A/V Connector (3.5mm diameter)

Analog Video Output: A/V Connector (3.5mm diameter)
Video 2: Available. BNC Connector (Composite/Output Only); Signals can be output simultaneously from the AV and Video 2 Jacks.

Component Output: Available
Headphone Terminal: 3.5mm stereo mini-jack

LANC: 2.5mm stereo mini-jack
USB Connector: Mini-B USB 2.0 Hi-Speed

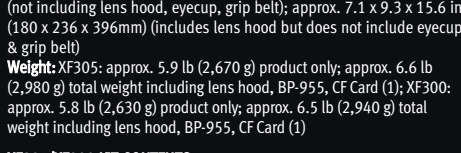
POWER/OTHERS

Power Supply: 7.4V DC (battery pack)

Temperature & Humidity (Performance): 0 – 40° C, 32 – 104° F, 85%
Dimensions (W x H x D): approx. 6.0 x 9.3 x 15.0 in (153 x 236 x 382mm) (not including lens hood, eyecup, grip belt); approx. 7.1 x 9.3 x 15.6 in (180 x 236 x 396mm) (includes lens hood but does not include eyecup & grip belt)

Weight: XF305: approx. 5.9 lb (2,670 g) product only; approx. 6.6 lb (2,980 g) total weight including lens hood, BP-955, CF Card (1); XF300: approx. 5.8 lb (2,630 g) product only; approx. 6.5 lb (2,940 g) total weight including lens hood, BP-955, CF Card (1)

XF305/XF300 KIT CONTENTS



- | | |
|--------------------------------|--------------------------------|
| • XF305/XF300 Body | • DC Cable DC-930 |
| • Lens Hood | • Wireless Controller WL-D6000 |
| • Eyecup | • Shoulder Strap SS-1200 |
| • Battery Pack BP-955 | • Component Cable DTC-1500 |
| • Compact Power Adapter CA-930 | • Canon XF Utilities Disc |

* The standard setting is used in Full Auto mode.
** Any gain setting from -6dB to 33 dB can be assigned to the Low, Medium and High settings in 0.5 dB steps. The default is 0dB, 6dB, 12 dB.
*** In Full Manual Focus mode, a rotational limit (hard stop) is set and subject distance is displayed.
**** Custom Picture Data is not compatible with data from previous Canon models.
† XF305 Only

All images and effects simulated. Specifications are subject to change without notice. Weight and dimensions are approximate. Canon and DIGIC are registered trademarks of Canon Inc. in the United States and may also be registered trademarks or trademarks in other countries. IMAGEANYWARE is a trademark of Canon. "HD" and the "HD" logo are trademarks of Sony Corporation and Victor Company of Japan, Limited (JVC). Other names and products not mentioned above may be registered trademarks or trademarks of their respective companies.

Warning: Unauthorized recording of copyrighted materials may infringe on the rights of copyright owners and be contrary to copyright laws.

Canon

XF305 XF300

PROFESSIONAL CAMCORDERS



Canon U.S.A., Inc. One Canon Plaza, Lake Success, NY 11042 U.S.A.

Canon Canada, Inc. 6390 Dixie Road, Mississauga, Ontario L5T 1P7 Canada

Canon Latin America, Inc. 703 Waterford Way, Suite 400, Miami, FL 33126 U.S.A.

Canon Mexicana S. de R.L. de C.V. Blvd. Manuel Ávila Camacho No. 138, Piso 17

Col. Lomas de Chapultepec, C.P. 11000 México, D.F. México

www.usa.canon.com/camcorder/pro

1-800-OK-CANON

Canon

image*ANYWARE*

High Definition Evolved

XF305 | XF300

High Definition Camcorders



XF300

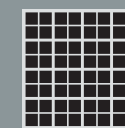
XF305

With a host of features previously reserved for only the most advanced professional cameras, the Canon XF305 and XF300 deliver Full HD, 1920 x 1080 video simply, economically and without compromise. Featuring MPEG-2 4:2:2 50Mbps recording directly to low-cost Compact Flash cards, the XF305 and XF300 are designed to operate seamlessly within established industry workflows, quickly delivering outstanding image quality for any application. Whether shooting news, documentaries, weddings or events, on location or in studio, the XF305 and XF300 raise the bar, offering outstanding reliability and intuitive operation that one can only expect from Canon.

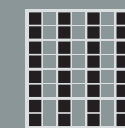
MPEG-2 Long-GOP

4:2:2

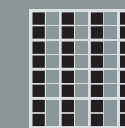
Twice the color resolution of 4:2:0



Y
Brightness Signal



B-Y(Pb)



R-Y(Pr)

Color Difference Signals

50Mbps

Highest Recording Capability 50Mbps (CBR)

MXF

Material Exchange Format

Essence

Metadata

Genuine Canon 18x HD L-Series Lens



HD Video Lens



The XF305 and XF300 feature a stunning 18x HD L-Series video lens designed to capture every image with superb clarity and capable of delivering 1,000 TV lines of resolution. With a 35mm equivalent zoom range of 29.3 – 527.4mm, it's perfect for everything from wide-angle to extreme telephoto shooting. As with the famous Canon EF L-Series camera lenses, this HD L-Series video lens uses

advanced optical design and technology. The lens incorporates High-Index-Ultra-Low Dispersion (HI-UD), UD, and aspherical lens elements to capture high-resolution video while minimizing chromatic aberration. Precise and predictable lens operation is achieved with mechanical end stops for both zoom and focus systems. Additionally, the lens barrel includes distance indicators for easily setting desired focus distance and moving between focus points while recording.

The Canon XF305 and XF300 feature a new SuperRange Optical Image Stabilizer (OIS) system featuring Dynamic and Powered modes for optimal performance in the greatest variety of situations. Powered mode suppresses the types of vibrations most prevalent when shooting telephoto, while Dynamic mode is designed to provide

extra compensation at wide angle focal lengths to eliminate vibration common when walking and shooting.

Three Native 1920 x 1080 CMOS Image Sensors (Canon Engineered and Manufactured)



The XF305 and XF300 feature three native 1920 x 1080 CMOS image sensors that deliver outstanding, Full HD video recording with minimal noise. Plus, the 1/3-inch sensor enables a compact lens and body design, for greater mobility and quick shooting.

DIGIC DV III Image Processor



Designed specifically for Canon HD camcorders, the next generation DIGIC DV III Image Processor ensures natural, lifelike

colors with excellent black reproduction. Tonal gradations and shadow detail are captured with remarkable accuracy. The DIGIC DV III Image Processor enables Genuine Canon Face Detection, which is ideal for tracking a face in a crowd. Additionally, DIGIC DV III works to minimize power consumption, resulting in longer battery life.



MPEG-2 4:2:2 50Mbps Codec

The XF305 and XF300 incorporate Canon's new MPEG-2 4:2:2 50Mbps codec (Canon XF Codec), capable of recording fine detail and deep color while maintaining compatibility with industry standard workflows. Placing

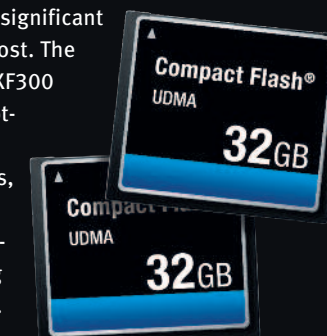
both the XF305 and XF300 on the high end of the market in terms of codec quality, these are the camcorders to use when advanced post-production processing such as compositing, color correction or grading will be required. The XF305 and XF300 capture Full HD (1920 x 1080) at a maximum 50Mbps (Constant Bit Rate). 4:2:2 color sampling offers twice the color resolution of HDV and other 4:2:0 formats for robust, accurate color detail. The XF305 and XF300 use Material Exchange Format (MXF). MXF, an internationally standardized file format, is designed to make the exchange of audio and video materials among NLE (Non-Linear Editing) systems simple. The MXF format wraps video and audio with metadata in a single file, maintaining access to critical information throughout the production process.

Compact Flash Card Recording



RECORDING

The XF305 and XF300 record on easily available, non-proprietary, and inexpensive CF cards. Besides their rugged, solid-state construction and the speed and ease with which files can be transferred to computers, CF cards represent a significant savings in cost. The XF305 and XF300 have two hot-swappable CF card slots, perfect for relay recording, copying and backup.



Phenomenal Integration from Location to Studio

XF305 | XF300

High Definition Camcorders



Smooth Integration With Production Infrastructure

The XF305 and XF300 are designed to produce video files compatible with most production and broadcast environments. Industry standard MPEG-2 compression means easy integration for broadcast, cable or satellite networks. Canon's XF Codec is supported by the industry's leading manufacturers: Adobe, Apple, Avid and Grass Valley. This ensures the widest compatibility with existing infrastructure and non-linear editing (NLE) software. The XF305 also offers terminal support for HD-SDI output, genlock and time code, ideal for live broadcast applications, multi-camera shooting and uncompressed Full HD output. With the XF305 and XF300, Canon has designed the ideal go-to camera for professional productions, large or small.

Advanced Features

The XF305 and XF300 feature a number of functions designed specifically to make complicated shoots easier. Often found as part of expensive external units, the XF305 and XF300 include a versatile waveform monitor and vectorscope. The waveform monitor provides an objective and detailed analysis of overall image brightness and RGB components ensuring correct exposure. The vectorscope shows real-time image hue and saturation analysis, key to achieving



accurate white balance and for making color balance changes on the fly.

4.0-inch LCD Monitor, High Resolution EVF and Advanced Focusing Features

The XF305 and XF300 feature a bright and sharp 1.23 Megapixel 4.0-inch LCD monitor with approximately 100% field of view coverage. The LCD flips both ways for viewing from the left or right side of the camera and has an extra 35 degrees of movement for increased operability, even in tight situations. The XF305 and XF300 also offer a 0.52-inch, 1.55 Megapixel color electronic viewfinder (EVF), a breakthrough in critical focusing. Two peaking modes and a magnification mode are available in standby and record mode, making it extremely easy for the camera operator to check and confirm critical focus. In addition, Canon's exclusive Edge Monitor Focus Assist system displays a red

and green waveform monitor at the bottom of the LCD monitor and three red focus check areas across the monitor. The green waveform shows overall focus while the red waveform shows the status of each focus check box. With this dynamic focus feedback, the user can quickly tune focus in a specific area, and move between focus points in a scene with a whole new level of accuracy and speed.

Recording Modes and Frame Rates

No matter the prescribed workflow, the XF305 and XF300 can capture video at just the right resolution, speed and bit rate. These are the first cameras in their class to shoot MPEG-2 4:2:2 files at 50Mbps

Recording Mode		
Recording Mode	Resolution	Frame rate
50Mbps 4:2:2	1920 x 1080	60i
	x 30p	30p
	1280 x 720	24p
	x 60p	60p
	x 30p	30p
	x 24p	24p
35Mbps 4:2:0	1920 x 1080	60i
	x 30p	30p
	1280 x 720	24p
	x 60p	60p
	x 30p	30p
	x 24p	24p
25Mbps 4:2:0	1440 x 1080	60i
	x 30p	30p
	x 24p	24p
	x 24p	24p

Optional 50i/50p/25p upgrade through Canon Factory Service Center

(Constant Bit Rate), 35Mbps (Variable Bit Rate), for longer shooting times and 25Mbps (Constant Bit Rate) for compatibility with HDV content. In addition to shooting in Full HD mode, 720p mode is available at speeds up to 60 frames per second for capturing sports and action. For PAL compatible shooting, an optional upgrade for 50i, 50p and 25p recording is available through the Canon Factory Service Center.

For shoots when the action stops and starts, the XF305 and XF300 have a Pre-Record feature. With Pre-Record activated, the cam-

recorder constantly buffers approximately three seconds of video into its memory. When the record button is pressed, recording begins immediately and the content of the camera's buffer memory is added, ensuring that no important or unexpected action is missed. The Slow and Fast Motion mode allows the XF305 and XF300 to record a different frame rate than the playback frame rate resulting in either a fast or slow motion effect during playback. Since the camera is recording real frames and modifying the playback rate, there is no quality loss due to interpolation and maximum image quality is maintained. In 1080p mode, fast motion is supported up to 2.5x the normal rate and as slow as 1/2.5x. In 720p mode, fast motion is supported up to 5x the normal rate and as slow as 1/1.25x. For time-lapse applications, the XF305 and XF300 have an Interval Recording mode



Interval Recording

that can be left to shoot a specified number of frames at pre-defined intervals. For stop-frame animation, the XF305 and XF300 feature a frame record function allowing the

camcorder to be programmed to record a specified number of frames each time the camera is triggered.

Customization

With extensive custom settings, the XF305 and XF300 enable the professional user to control and customize every facet of shooting. A vast range of image quality, control and display options ensure camera operation that is intuitive, speedy and comfortable, no matter the style of the shooter.

- For just the right look, the XF305 and XF300 camcorder's Custom Picture Settings make it simple to define the Gamma, Knee, Color Matrix Adjustment, Saturation, Sharpness, Master Black, Skin Tone and more.

- To customize the operation of the XF305 and XF300 to the tastes and particulars of the user, 28 different functions are assignable to 13



buttons located on the camera. All custom menus and settings can be saved onto an SD card, making it easy to share settings among cameras or users, saving significant setup time when matching multiple cameras to a pre-set style or moving between cameras.

Extensive Connectivity

The XF305 and XF300 are designed with numerous options to insure that the camcorders meet the requirements of professional workflows by connecting seamlessly with other production equipment. They are equipped with a DC-In terminal, allowing connection to AC power and the hot swapping of batteries, XLR audio inputs for connection to professional audio devices, USB 2.0 Hi-Speed, HDMI out, AV out, component video out, headphone jack, dedicated video 2 out and a remote connection featuring full LANC support for camera control with third-party controllers. Additionally, the XF305 adds HD-SDI, genlock and SMPTE time code (in/out) terminals, essential for live broadcast and multi-camera setups. A new Intelligent Lithium-Ion battery system provides detail about the remaining power level and battery wear. The XF305 and XF300 also maintain compatibility with legacy Canon BP-900 series batteries maintaining the value of existing batteries many professionals already own.

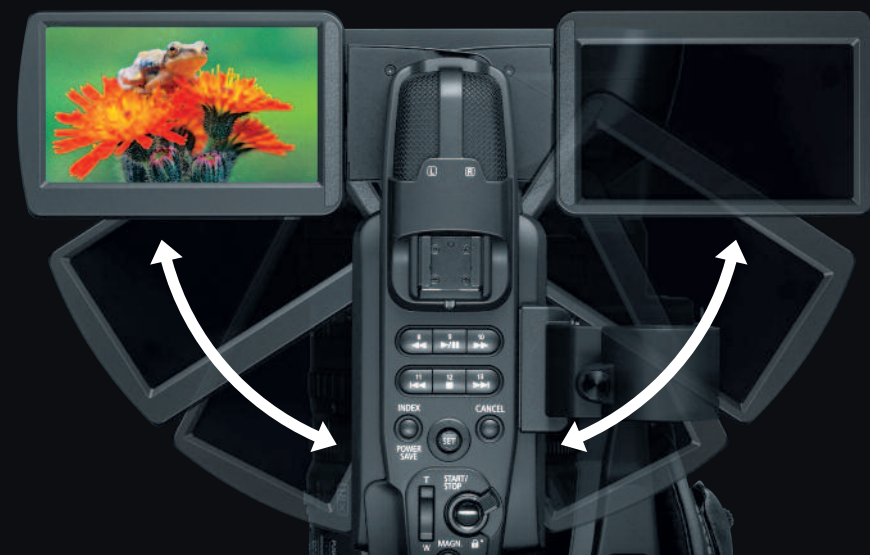


Canon XF Utility

Compatible for use on both Mac and Windows platforms, Canon XF Utility software provides a simplified first step in the process of managing and playing back clips. Additionally, the software can manage lists of clips in a number of display formats, add and edit metadata, and backup media.

Refined Ergonomics and Durability for Easier Operation

The XF305 and XF300 are designed from the ground up to maximize shooting comfort and usability. The camcorders feature a redesigned layout making them more intuitive than any that came before them. New users and users switching from other products will find the button layout, camera menu system and camera controls familiar and easy to use out of the box. The well balanced design allows the operator to comfortably control the camera and easily maintain a steady shot while minimizing arm fatigue.



Custom Picture Settings

Gamma	Normal 1		Sharpness	Coring	Level -30 → +50	Color Matrix	G-R	-50 → +50
	Normal 2				D-Offset 0 → +50		G-B	-50 → +50
	Normal 3				D-Curve 0 → +8		B-R	-50 → +50
	Normal 4				D-Depth -4 → +4		B-G	-50 → +50
Master Black	Cine 1		Noise Reduction	Auto		White Balance	R Gain	-50 → +50
	Cine 2			Off	G Gain		-50 → +50	
	Master Pedestal	-50 → +50		1 → 8	B Gain		-50 → +50	
	Red	-50 → +50		Off				
Black Gamma	Green	-50 → +50	Skin Detail	Effect Level	Low	Color Correction	Select Area	A
	Blue	-50 → +50			Middle		B	
	Level	-50 → +50			High		A&B	
	Range	-5 → +50			Hue		-16 → +16	Phase 0 → 31
Low Key Saturation	Point	-1 → +50	Selective NR	Hue	0 → 31	A Area Select	Chroma	0 → 31
	Enable	On			Area		0 → 31	Area 0 → 31
	Level	-50 → +50			Y Level		0 → 31	Y Level 0 → 31
	Off							
Knee	On		Effect Level	Low		A Area Revision	Level -50 → +50	
	Off			Middle	Phase -18 → +18			
	Auto			High	Phase 0 → 31			
	Slope	-35 → +50		Hue	0 → 31		Chroma 0 → 31	
Sharpness	Point	50 → 109	Color Matrix	Select	Normal 1	B Area Select	Area 0 → 31	
	Saturation	-10 → +10			Normal 2		Area 0 → 31	
	Level	-10 → +50			Normal 3		Y Level 0 → 31	
	Offset	0 → 50			Normal 4		Level -50 → +50	
Detail Sharp	Limit	-50 → +50	Gain	-50 → +50	B Area Revision	Phase -18 → +18		
	Select	0 → +15		R-G		-50 → +50		
	Gain 0 → 9			R-B		-50 → +50		
	Slope 0 → 3							
Knee Aperture	Slope 0 → 3		Setup Level	Level	-50 → +50	100% Clip	On	
	Level 0 → 50			Press	Off			
	Slope 0 → 3							
	Offset 0 → 50							

PROFESSIONAL CAMCORDERS

Tape-Based Camcorders

High Definition Camcorders

XLH1S

Exceptional Image Quality... Definitive Control...
Professional Functionality

- Genuine Canon 20x High Definition L-series Video Zoom Lens III
- Three 1/3" Native 16:9 CCD Image Sensors with 1.67 Megapixels (1440 x 1080)
- Independent Focus, Zoom and Iris rings
- True 1080 HD Capture with a choice of 60i, 30p or 24p frame rates
- Canon DIGIC DV II Image Processor delivers the highest image quality
- Canon Interchangeable XL Lens Mount
- HD-SDI (SMPTE 299M) /SD-SDI (SMPTE 272M) Output with embedded audio and time code, Genlock Input, SMPTE Time Code Input and Output



XLH1A

The Definition of Professional HD

- Genuine Canon 20x High Definition L-series Video Zoom Lens III
- Three 1/3" Native 16:9 CCD Image Sensors with 1.67 Megapixels (1440 x 1080)
- Independent Focus, Zoom and Iris rings
- True 1080 HD Capture with a choice of 60i, 30p or 24p frame rates
- Canon DIGIC DV II Image Processor delivers the highest image quality
- Canon Interchangeable XL Lens Mount



XHG1S

Your Vision... in High Definition

- Genuine Canon 20x High Definition L-series Zoom Lens
- Three 1/3" Native 16:9 CCD Image Sensors with 1.67 Megapixels (1440 x 1080)
- True 1080 HD Capture with a choice of 60i, 30p or 24p frame rates
- Canon DIGIC DV II Image Processor delivers the highest image quality
- SuperRange Optical Image Stabilizer can correct a wide range of movements without image degradation
- Instant AF dramatically reduces focusing time and increasing accuracy
- HD-SDI (SMPTE 299M) /SD-SDI (SMPTE 272M) Output with embedded audio and time code and 24F 2:3 pulldown flags, Genlock Input, SMPTE Time Code Input/Output



XHA1S

Capture the Moment as It Happens

- Genuine Canon 20x High Definition L-series Zoom Lens
- Three 1/3" Native 16:9 CCD Image Sensors with 1.67 Megapixels (1440 x 1080)
- True 1080 HD Capture with a choice of 60i, 30p or 24p frame rates
- Canon DIGIC DV II Image Processor delivers the highest image quality
- SuperRange Optical Image Stabilizer can correct a wide range of movements without image degradation
- Instant AF dramatically reduces focusing time and increasing accuracy



Standard Definition Camcorders

XL2

Open Up a World of Possibilities

- Genuine Canon 20x Professional L-series Fluorite Lens
- Three 1/3" Progressive Scan CCD Image Sensors with 16:9 and 4:3 aspect ratio shooting formats
- Variable frame rates: 60i, 30p and 24p
- XL Mount Interchangeable Lens System with ability to change lenses from the XL-series lenses or Canon's photographic lenses
- SuperRange Optical Image Stabilizer corrects camera shake instantly while maintaining the integrity of the image



GL2

Create Your Vision

- Genuine Canon 20x Professional L-series Fluorite Lens
- Three 1/4" CCD Image Sensors
- Optical Image Stabilizer corrects camera shake instantly while maintaining the integrity of the image
- 1.7 Megapixel Still Images
- Digital Video Format and IEEE 1394 (DV In/Out Terminal)



Accessories


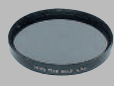
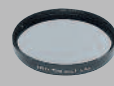









PORTABLE DTE RECORDERS & ACCESSORIES												
ITEM DESCRIPTION	FS-CF Pro Kit	FS-CF Kit	FS-CF/FS-CV Standard Battery	FS-CF/FS-CV Camera Cradle	FS-CF/FS-CV 4-6 Pin Firewire Cable	FS-CF/FS-CV 6-6 Pin Firewire Cable	FS-CF/FS-CV USB 2.0 A-A Cable	FS-CF/FS-CV 802.11g Dongle	High Capacity Battery Pack	FS Extra Battery (90 min.)	FS Replacement AC Adapter (110V)	FS Camera Mount
ITEM CODE	1751V350	1751V354	1379V743	1379V744	1381V090	1381V091	1381V092	1381V098	0738B002	0738B001	0739B001	0740B001
XF305												
XF300												
XL H1S	•	•	•*	•*	•*	•*	•*	•*	•**	•**	•**	•**
XL H1A	•	•	•*	•*	•*	•*	•*	•*	•**	•**	•**	•**
XH G1S	•	•	•*	•*	•*	•*	•*	•*	•**	•**	•**	•**
XH A1S	•	•	•*	•*	•*	•*	•*	•*	•**	•**	•**	•**
XL2	•	•	•*	•*	•*	•*	•*	•*	•**	•**	•**	•**
GL2	•	•	•*	•*	•*	•*	•*	•*	•**	•**	•**	•**













ITEM DESCRIPTION	BATTERIES								CHARGERS & ADAPTERS			
	FS Replacement Belt Clip	Battery Pack BP-975	Battery Pack BP-970G	Battery Pack BP-955	Battery Pack BP-950G	Battery Pack BP-945	Battery Pack BP-930	Battery Pack BP-915	Dual Battery Charger CH-910	Car Battery Adapter CB-920	Compact Power Adapter CA-930	Compact Power Adapter CA-920
ITEM CODE	0741B001	4588B002AA	0972B002	4587B002AA	0971B002	4244A002	3058A002	3057A002	3036A002	8034A002	4589B002AA	8029A002
XF305		•	•	•	•					•	•	•
XF300		•	•	•	•					•	•	•
XL H1S	•**	•	•	•	•	•	•	•	•	•	•	•
XL H1A	•**	•	•	•	•	•	•	•	•	•	•	•
XH G1S	•**	•	•	•	•	•	•	•	•	•	•	•
XH A1S	•**	•	•	•	•	•	•	•	•	•	•	•
XL2	•**	•	•	•	•	•	•	•	•	•	•	•
GL2	•**	•	•	•	•	•	•	•	•	•	•	•

ITEM DESCRIPTION	LENSES							FILTERS				
	DC Cable DC-930	DC Coupler DC-920	HD 6x Zoom XL 3.4–20.4mm L	20x Zoom XL 5.4–108mm L IS	3x Zoom XL 3.4–10.2mm	16x Manual Servo Zoom Lens	Wide Attachment Lens WA-H82	Wide Converter WD-H72	Wide Converter WD-58H	Ratio Converter RC-72	72mm Pro Mist Filter	72mm Black Pro Mist Filter
ITEM CODE	4590B001AA	8033A001	1696B002	9825A002	3159A002	7122A002	4591B001AA	1724B001	8030A001	0553B001	0002V411	0002V438
XF305	•	•					•					
XF300	•	•					•					
XL H1S			•	•	•	•				•	•	•
XL H1A			•	•	•	•				•	•	•
XH G1S			•	•	•	•		•		•	•	•
XH A1S			•	•	•	•		•		•	•	•
XL2			•	•	•	•				•	•	•
GL2			•	•	•	•			•			

*Compatible with FS-CF/FS-CV Recorder **Compatible with FS-C or FS-4 Recorders only

Accessories

	VIEWING ACCESSORIES							MICROPHONES		VIDEO LIGHTS & ACCESSORIES		CONTROL UNITS
ITEM DESCRIPTION	72mm Soft FX2 Filter	72mm ND6 Filter	72mm ND3 Filter	Filter Set FS-72U	EF Adapter XL	Color Viewfinder Unit FU-2000	Monochrome CRT Viewfinder Unit FU-1000	Directional Stereo Microphone DM-50	Microphone Adapter & Shoulder Pad MA-300	Battery Video Light VL-10Li II	Halogen Bulb JR7.2V10WF (Replacement Bulb for VL-10Li II)	Zoom Remote Controller ZR-2000
												
ITEM CODE	0002V437	0002V436	0002V435	3093A002	3162A002	0974B002	3157A002	3176A002	8032A002	1729B001	3141A002	0973B002
XF305										•	•	•
XF300										•	•	•
XL H1S	•	•	•	•	•	•	•		•			•
XL H1A	•	•	•	•	•	•	•		•			•
XH G1S	•	•	•	•						•	•	•
XH A1S	•	•	•	•						•	•	•
XL2	•	•	•	•	•			•	•			•
GL2								•	•	•	•	•

		MEDIA			CABLES							CASES	
ITEM DESCRIPTION	Zoom Remote Controller ZR-1000	HDV/DV Tape DVM-E63	DV Head Cleaning Cassette DVM-CL	D Terminal Component Video Cable DTC-1000	Stereo Video Cable STV-250N	Stereo Video Cable STV-150	S-Video Cable S-150	DV Cable CV-150F (4-4 Pin Firewire)	USB Cable IFC-400PCU	FS 12" 4-6 Pin Firewire Cable	System Hard Case HC-4200	System Hard Case HC-4100	
													
ITEM CODE	3089A002	1313B001	3134A002	0976B001	3067A002	3065A002	3062A002	3060A002	9370A001	0742B001	1723B001	8031A001	
XF305	•			•	•								
XF300	•			•	•								
XL H1S	•	•	•	•		•	•						
XL H1A	•	•	•	•		•	•						
XH G1S	•	•	•	•				•	•		•		
XH A1S	•	•	•	•				•	•		•		
XL2	•		•			•	•	•					
GL2	•		•		•		•	•	•	•**		•	

	OTHERS											
ITEM DESCRIPTION	System Hard Case HC-3200	Roller Case	KATA Case (for XL Series)	KATA Raincover (for XL Series)	KATA Medium Shoulder Bag	Equalizer EQ-XL1	System Isolator SI-XL1	Mini Mount MM-XL1	Steady Stick	Tripod Adapter TA-100	Tripod Adapter Base TB-1	Shooting Brace SBR-1000
												
ITEM CODE	9826A001	1552B001	0002V413	0002V412	0954V372	0002V409	0002V410	0002V408	0002V414	9859A001	4592B001AA	0975B001
XF305		•			•					•	•	•
XF300		•			•					•	•	•
XL H1S	•	•	•	•		•	•	•	•	•	•	•
XL H1A	•	•	•	•		•	•	•	•	•	•	•
XH G1S		•								•	•	•
XH A1S		•								•	•	•
XL2	•	•	•	•		•	•	•	•	•	•	•
GL2		•			•				•			•

**Compatible with FS-C or FS-4 Recorders only