

Professional video perfection for the next generation

The XF305 - Canon's newest professional digital video camera for event videographers, film makers, news gatherers, and live multi-camera environments - is truly state of the art. Featuring a genuine Canon 18x HD video lens, 3CMOS sensor system, and DiGiC DV III, the Canon XF305 records breathtaking Full HD video direct to CF cards. Designed through feedback from professional camera operators, the XF305 is also very mobile, with excellent balance between operation and weight.



Key Features

Delivering superior image quality

- MPEG-2 FULL HD 4:2:2 50Mbps codec
- 1920 x 1080 1/3 inch 3CMOS Sensor System
- Genuine Canon 18x HD Video L-Series Lens

Compatible with industry standard formats

- Utilises MXF file format
- Plug-ins for Apple/Avid/Adobe*/Grass Valley* for importing into NLE software
- Supports popular MPEG-2 4:2:2 workflows
- Includes Canon XF Utilities (Windows and Mac OS)

* To be supported by NLE software

Functional design and layout

- Weight is balanced and evenly distributed
- Intuitive button and switch layout
- Zoom and Focus rings with rotational end
- Iris ring
- Large LCD screen

Expandable and customizable

- Dual CF Card slots
- XLR, HDMI, USB, Remote, AV, Video2, Component, DC-in terminals
- Genlock, HD / SD SDI, TimeCode
- 23 'Custom Pictures' presets
- Full customization over image parameters such as colour, sharpness, gamma, etc
- Peaking, Zebra assist functions

Canon's first Professional file-based HD Video Camera

Versatile file-based recording, direct to readily available CF Cards allowing easy integration in to standardized workflows

Super fast processing with 1/3 inch 3CMOS Sensor System

A low noise system supporting slow and fast motion shooting and faster scanning reducing rolling shutter skews

Super Range Optical Image Stabilizer and Instant AF

Dynamic, Powered, and Normal image stabilization settings. Instant AF with Face Detection technology.

New HD L Lens: 29.3 - 527.4mm f/1.6 - f/2.8 with 18x Optical Zoom

Equipped with a large L Lens with a centre resolution of 1,000 TV lines, offers enhanced resolution at all zoom levels

Industry standard MXF format support

Material Exchange Format (MXF) is an established international standard which enables the use of metadata in broadcasting and other applications

MPEG-2 FULL HD (4:2:2) recording codec

This newly developed Canon XF codec enables high quality imaging and audio performance with up to 50Mbps data recording

4.0 inch LCD with 270° rotation and Viewfinder

A freely rotating 270° (left and right), 35° (front), 4.0 inch 1.23MP HD LCD Panel with 100% coverage allows for greater usability and mobility

Industry standard terminals

Genlock, HD / SD SDI and Time Code for seamless integration into multi camera live switch shoots



Canon FULL High Definition Camera System

Canon's complete FULL High Definition Video Camera System incorporates a HD CMOS sensor (1920 x 1080), genuine Canon HD Video Lens & powerful DiGiC DV III processor ensuring you get the best FULL HD filming results possible.

XF305 Technical Specifications	
Video System	
Format Type	Movies: CF Card Type I only (2 Slots), UDMA4 recommended; Stills: SDHC/SD Cards
Sensor	1/3 inch 3CMOS
Image Processor	DiGiC DV III
Movie Compression System	MPEG-2 Long GOP 4:2:2 (50 Mbps)
File Format	MXF
Image Pixels	
Effective Pixels	1920 x 1080
Lens	
Optical Zoom	18x
Focal Length (nominal)	4.1 – 73.8mm
Focal Length (35mm equivalent)	Approx. 29.3 – 527.4mm
F number	f/ 1.6 – 2.8
Filter Diameter	82mm
Focus Ring	Provided (electronic ring); either [AF/MF] mode with no rotational limit or [FULL MF] mode with rotational limit and distance indicator can be selected.
Zoom Ring	Provided (electronic ring). Focal length indicator, zoom limit provided.
Zoom Rocker	Manual zoom/Power zoom. One of three settings (Slow, Normal or Fast) can be selected for the power zoom mode and, in each mode, either a variable speed (16 steps) or fixed speed (16 steps) can be set.
Iris Ring	Provided (electronic ring)
Aperture leaves	6 iris aperture leaves, material used: Metal (treated for immunity from sunlight-induced burns)
Close up distance	1 m (entire zoom range), 20 mm with wide macro
Image Stabilizer	Optical system (lens shift system adopted/Super range system support)
Zoom/focus preset function	None
One push AF function	○ (Button operation)
ND filter	3 steps of ND1 (ND: 1/4), ND2 (ND: 1/16), ND3 (ND: 1/64) Material used: Glass (treated for immunity from sunlight-induced burns)
Filter diameter and pitch	Ø 82 mm / P0.75 mm
Recording Specifications	
50 Mbps CBR (4:2:2) [422P@HL]	1920 x 1080 PAL – 50i / 25P 1280 x 720 PAL – 50P / 25P
35 Mbps VBR (4:2:0) [MP@HL]	1920 x 1080 PAL – 50i / 25P 1280 x 720 PAL – 50P / 25P
25 Mbps CBR (4:2:0) [MP@H14]	1440 x 1080 PAL – 50i / 25P
Control/Balance	
Light Metering Method	Centre-weighted / Spot / Backlight Correction
Exposure Compensation	±7steps
White Balance Mode	AWB, Set (2 positions). Preset (Daylight/Tungsten), Colour Temperature (2,000K – 15,000K)
Illumination	
Min Illumination	3.8 Lux (shutter speed 1/50 sec), 0.05 Lux (shutter speed 1/3 sec)
LCD / Viewfinder	
View Screen / Pixels	4.0 inch 16:9 ratio wide screen LCD screen (1,230,000 dots), 100% coverage Angle adjustment enabled with high, low angle support and self portrait shooting possible Brightness, contrast, colour, sharpness and backlight adjustment
Viewfinder (Colour)	0.52 inch 16:9 ratio wide screen LCD screen (1,555,000 dots), 100% coverage Angle adjustment enabled. +2.0 to -5.5 diopter, 3-lens configuration Brightness, contrast, colour, sharpness and backlight adjustment
Filming Models & Controls	
Recording Modes	Auto / 50i / 25P
Special Recording Modes	Frame Rec, Interval Rec, Slow & Fast Motion, Pre-Rec
Audio	
Audio Data	Linear PCM (16-bit, 48KHz), 2-ch
Audio Level Metering	Manual audio level VR metering & control
Wind Screen	Wind Low-Cut setting x2
Still Image Recording	
Capture Size	1920x1080
Memory Card Type	SDHC / SD slot

Included Accessories

- Battery Pack BP-955
- Power Supply Coupler DC-930
- Power Adaptor CA-930
- Wireless Controller WL-D6000
- Eyecup
- Shoulder Strap
- Component Cable DTC-100
- Canon XF Utility, Plug-in Disc

Optional Accessories

- Power Supply Coupler
 - DC-930
- Power Adaptor
 - CA-920
- Car Adaptor
 - CB-920
- Battery Packs
 - BP-955
 - BP-975
 - BP-950G
 - BP-970G
- Shooting Brace
 - SBR-1000
- Tripod Adaptor
 - TA-100
- Zoom Remote Control
 - ZR-2000
- Video Light
 - VL-10Li II
- Tripod Base
 - TB-1
- Wide Lens Attachment
 - WA-H82
- Memory Cards – CF Cards Type I (UDMA4 Supported), SD Cards, SDHC Cards

Canon XF305 Professional Digital Video Camera



Power	
Input Power Supply	7.4 V DC (Battery Pack), 8.4 V DC (DC IN)
Interface	
Terminals	Input Signals: XLR 3-pin jack Output Signals: HDMI (Type-A) USB (mini-B, USB 2.0 Hi-Speed) AV (3.5mm, 4-pole mini-jack) Component Headphone (3.5mm Stereo mini-jack) Remote (2.5mm Stereo mini-jack) Video2 terminal (BNC Connector) Genlock input (BNC Connector) HD /SD SDI output (BNC Connector) Time Code input / output (BNC Connector)
Operating Platforms	Canon XF Utility - PC: Windows XP SP2/SP3 (32-bit), Vista SP1/SP2 (32/64-bit), Windows 7 (32/64-bit) Mac: OS X 10.4 to 10.6
General	
Dimensions W x H x D	153 x 236 x 382mm
Weight exc. battery (g)	Approx. 2,630g