

CANON XF105/XF100 HIGH DEFINITION CAMCORDERS

Better By Design

Compact and weighing less than 3 lbs., Canon's XF105 and XF100 tapeless professional HD camcorders deliver exceptional HD picture quality, are fully compatible with today's leading nonlinear edit systems, and feature Canon's advanced XF Codec for exceptional MPEG-2 4:2:2 50 Mbps native 1920 x 1080 video quality. The Canon XF105 and XF100 record to Compact Flash (CF) cards and feature a Genuine Canon 10x HD Zoom lens for superior optical performance. The XF100 series camcorders feature unique 3D assist functions that allow two camcorders to be paired together for exceptional 3D image acquisition. Additionally, Canon's infrared recording mode allows capture of HD video in almost complete darkness. The XF105 features industry-standard HD-SDI output, genlock, and SMPTE time code (in/out) terminals for broadcast, multi-camera and 3-D production.



Key Features

- ▶ Uses Canon's Advanced XF Codec for Exceptional 1920 x 1080 Video Quality
- ▶ Recording to non-proprietary CF cards
- ▶ Canon SuperRange Optical Image Stabilizer (OIS) featuring dynamic and powered modes
- ▶ 3D Assist features for facilitating 3D capture alignment in a 3D rig
- ▶ Infrared Feature for Shooting in Limited Ambient Light
- ▶ Canon's proprietary **DiGiC DV III** Image Processor



Two CF card slots and offers versatile recording functions, including relay recording, file copy and backup.

- ▶ Face Detection Autofocus
- ▶ Multiple Bit Rates, Resolutions, and Frame Rates
- ▶ Slow and Fast Motion Recording

Recommended For:

- ▶ Event Videography
- ▶ Documentaries
- ▶ Nature and Wildlife
- ▶ Military and Law Enforcement
- ▶ Digital filmmaking
- ▶ 3D Productions

XF105 / XF100

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PRODUCT NAME: XF105 / XF100 ITEM CODE: 4885B001(XF105), 4888B001(XF100) UPC CODE: 013803130195(XF105), 013803130201(XF100)

SPECIFICATIONS

SPECIFICATIONS		XF105	XF100
STANDARD DEFINITION OR HIGH DEFINITION		High Definition	
POWER SUPPLY (RATED)		7.4V DC (battery pack)	
VIDEO RECORDING SYSTEM	COMPRESSION	MPEG-2 Long GOP	
	COLOR SPACE	4:2:2 (at 50Mbps recording)	
	FILE FORMAT	MXF	
	RECORDING MODES	50Mbps (CBR) 4:2:2, 1920x1080, (60i / 30p / 24p), 1280x720 (60p / 30p / 24p) 35Mbps (VBR) 4:2:0, 1920x1080 (60i / 30p / 24p), 1280x720 (60p / 30p / 24p) 25Mbps (CBR) 4:2:0, 1440 x 1080 (60i / 30p / 24p)	
AUDIO RECORDING SYSTEM		2-Channel, Linear PCM digital recording, 16-Bit, 48kHz	
IMAGE SENSOR		1 - 1/3-inch CMOS	
TOTAL PIXELS		Approx. 2.37 megapixels (2044 x 1160 pixels)	
EFFECTIVE PIXELS		Approx. 2.07 megapixels (1920 x 1080 pixels)	
MAXIMUM RECORDING TIME		64GB Compact Flash (CF) card, Greater capacity is possible when two cards are used. 25Mbps: 310 minutes, 35Mbps: 225 minutes, 50Mbps: 160 minutes	
LENS		Canon 10x HD Zoom Lens, 4.25-42.5 mm (35 mm equivalent 30.4-304 mm), f/ 1.8-2.8	
FOCUSING SYSTEM		TVAF plus External Phase Difference Metering Sensor, Autofocus (Instant AF, Medium AF, Normal AF, Face AF, Face Only AF), Manual, Full Manual	
MAX SHUTTER SPEED		1/2000	
MINIMUM FOCUSING DISTANCE		20 mm (wide macro), 60 cm (entire zoom range)	
WHITE BALANCE		Auto, Manual, Custom (2000K - 15000K in 100K increments), Daylight, Tungsten	
FRAME RATE		60i, 60p, 30p, 24p (50i and 25p optional upgrade available through Canon Factory Service Center)	
GENLOCK TERMINAL		BNC (input only) Same terminal as Time Code	
HD / SD-SDI TERMINAL		BNC (output only), with embedded audio and time code	
TIMECODE TERMINALS		BNC (input / output) Same terminal as Genlock	
IMAGE STABILIZATION		SuperRange Optical (Lens Shift) 4 modes: Standard, Powered, Dynamic, Off	
FILTER DIAMETER		58 mm	
VIEWFINDER		0.24-inch color widescreen, approx. 260,000 dots, approx. 100% field of view	
LCD SCREEN		3.5-inch color widescreen LCD, approx. 920,000 dots, approx. 100% field of view	
MICROPHONE		Stereo electret condenser microphone	
RECORDING MEDIA	CF CARD	2 Slots, Movie files only	
	SD CARD	Still images, Custom Picture Data, Clip Metadata, Custom Settings	
USB TERMINAL		Mini-B USB 2.0 Hi-Speed	
VIDEO TERMINAL	COMPONENT	Output only	
	COMPOSITE	A / V terminal 3.5 mm mini-jack, output only	
AUDIO TERMINALS		XLR 3-pin jack (2) with phantom power, Switchable between MIC / LINE, 3.5 mm stereo mini-jack	
HDMI TERMINAL		Yes (Type A)	
AV MINI TERMINAL		3.5 mm stereo mini-jack	
HEADPHONE TERMINAL		3.5 mm stereo mini-jack	
REMOTE CONTROL TERMINAL		Yes (compatible with LANC protocol)	
OPERATING TEMPERATURE RANGE		32° - 104°F, 0° - 40°C, 85% relative humidity	
DIMENSIONS		Approx. 4.8 x 5.8 x 9.8 in. (121 x 148 x 250 mm) (not including lens hood, mic holder unit, grip strap)	
WEIGHT		2.4 lbs (1070 g) (includes grip strap but excluding lens hood, mic holder unit, lens cap, BP and card)	
		2.8 lbs (1290 g) (includes grip strap, lens hood, mic holder unit, BP-925, CF card (x1) and SD card)	

MPEG-2 4:2:2 50Mbps Codec (Canon XF Codec)



MPEG-2 compression is both highly reliable and versatile. Developed by the Moving Pictures Expert Group (MPEG), it is one of the most widely used compression schemes in the industry for camera acquisition, over the air broadcast, cable and satellite TV. The XF100 Series records using Canon's XF Codec which features up to 50 Mbps 4:2:2 MPEG-2 compression and wide compatibility with existing industry infrastructure and non-linear editing (NLE) systems. The MXF file wrapper, allows video and audio to be wrapped in a single file along with important metadata.

By using 4:2:2 color sampling, the XF100 and XF105 cameras provides twice the color resolution of HDV and other codecs that use 4:2:0 color sampling. 4:2:2 provides ultra-fine transitions in tone and color and maintains the highest quality image for use in post production processes such as chroma keying, color grading, advanced compositing and effects.

The codec's 50Mbps constant bit rate provide the bandwidth needed to capture the XF100 and XF105's superior resolution and color in spectacular detail.

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OPTIONAL ACCESSORIES

	Item Code	Description
BATTERIES	0972B002	BP-970G Lithium Ion Battery Pack
	4588B002	BP-975 Lithium Ion Battery Pack
	4587B002	BP-955 Lithium Ion Battery Pack
ADAPTERS & CHARGERS	3089A002	ZR-1000 Zoom Remote Control
	0973B002	ZR-2000 Zoom Remote Control
	8034A002	CB-920 Car Battery Adapter
CABLES & CORDS	9859A001	TA-100 Tripod Adapter
	4590B001	DC-930 DC Cable
	1719B001	CTC-100 Component Cable
OTHER CAMCORDER ACCESSORIES	3573B001	TL-H58 Tele Converter
	4892B001	WD-H58W Wide Converter
	1729B001	VL-10Li II Video Light
	0975B001	SBR-1000 Shooting Brace
	4592B001	TB-1 Tripod Adapter Base

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