

# ***XA10 XF100***

Set your own standard:  
Professional Full HD  
camcorders.

**you can**



**Canon**

## XA10

The innovative **XA10 AVCHD camcorder** packs Canon professional technology into an ultra-compact body. Exceptional functionality and versatility ensures outstanding video and audio performance.



Professional HD video in the palm of your hand



AVCHD



### FEATURES

- High resolution imaging: wide-angle Canon HD Video Lens (F1.8, 30.4mm) with 10x optical zoom and 8-blade iris
- Canon HD CMOS Pro sensor provides outstanding dynamic range and low light performance
- Professional audio control, including 2x XLR inputs
- Full HD AVCHD recording (24Mbps) to 64GB of internal memory or 2x SDXC cards
- Shoot at night: Infrared mode with built-in IR lamp
- Full manual control, with lens focus ring and customisable control dial
- 8.8cm, 922k dot LCD; 0.61cm, 260k dot EVF
- Dynamic OIS and Powered IS combat shake
- Instant AF and Face Detection for pin-sharp focus
- Versatile: compact size, detachable handle, accessory shoe

	XA10	XF100
Codec	AVCHD; 24Mbps; 4:2:0	MPEG2 MXF; 50Mbps; 4:2:2
Video Resolution	1080/50i; 1080/25p*	1080/50i; 1080/25p; 720/50p; 720/25p
Recording Media	64GB built-in; 2x SDXC/SDHC	2x CompactFlash
Canon HD Video Lens	10x zoom, 30.4mm, f/1.8, Focus control via ring	10x zoom, 30.4mm, f/1.8, Lens, focus, iris control via ring
HD CMOS Pro	✓	✓
DIGIC DV III	✓	✓
Audio	2x XLR input; 35mm jack, 2ch Dolby Digital	2x XLR input; 35mm jack, 2ch Linear PCM
Variable Frame Rates	-	Slow & Fast Motion; Time Lapse; Stop Motion
Customisation	2 assignable buttons	Custom Picture; Custom Function; Custom Display 10 assignable buttons
3D Assist Functions	-	✓
Infrared mode	✓	✓

\* Recorded as 50i video stream

## XF100

The **XF100** is Canon's smallest camcorder to include an MPEG-2, 50Mbps, 4:2:2 Full HD codec. CF card recording, professional audio and extensive customisation provides exceptional versatility.

### FEATURES

- Records MPEG-2 MXF files to two CF cards at up to 50Mbps (4:2:2 colour, simultaneous recording possible)
- Lightweight palm-sized design; pro audio functions include handle-mounted XLR inputs
- 10x zoom Canon HD Video Lens (30.4mm, f1.8), with control ring and 8-blade iris
- 1/3 type Full HD Canon CMOS sensor
- 3D Shooting Assist Functions and Infrared shooting mode, with built-in IR lamp
- 8.8cm, 920k dot LCD with waveform monitor; 0.6cm, 260k dot EVF
- Variable frame rate recording
- Extensive customisation: 34 functions assignable to 10 buttons
- Canon XF Utility and NLE plug-ins supplied
- Canon Professional Services video support



An unprecedented combination of versatility and Full HD image quality



50Mbps

MXF





# Specification

	XA10	XF100	XA10	XF100
<b>IMAGE SENSOR</b>				
Sensor System	1/3 type HD CMOS Pro Bayer pattern filter	1/3 type CMOS Bayer pattern filter	EVF Size	0.61cm (0.24"), 100% view
Total pixels per sensor	2.37 megapixels	2.37 megapixels	Dots	260,000
Effective pixels per sensor	2.07 megapixels	2.07 megapixels	Image quality adjustments	-
Minimum illumination	Auto: 1.3 lux (with Auto Slow Shutter) Slow Shutter: 0.1 lux	Full Auto (2.4dB gain), 50i/25p: 3.8 lux / 1.9 lux Manual mode (33dB gain), 50i/25p: 1.3lux / 0.7 lux (1920 x 1080i mode)	Adjustable Correction lens	-
Horizontal Resolution	900 TV lines or more (1920 x 1080i mode)	900 TV lines or more (1920 x 1080i mode)	Correction lens	+ 2.0 to -5.5 diopter
<b>LENS</b>				
Zoom ratio	10x	10x	<b>INPUTS/OUTPUTS</b>	
Focal length	4.25 - 42.5mm (35mm equivalent: 30.4 - 304mm)	4.25 - 42.5mm (35mm equivalent: 30.4 - 304mm)	Audio in	XLR inputs with 48V phantom power (x2), 3.5mm microphone input jack
Minimum focus distance	60cm (throughout zoom range); 20mm (wide angle)	60cm (throughout zoom range); 20mm (wide angle)	Headphone output	3.5mm stereo jack
ND filter	Built-in gradation filter (Auto or Off)	Built-in gradation filter (Auto or Off)	Video monitor output	NO
Zoom control	Slider or Handle; Selectable Shockless Zoom mode	Ring, Rocker or Handle; Selectable Shockless Zoom mode	HDMI	YES (HDMI™ Mini Connector: v1.3, out only, 1080/50p output possible)
Zoom speed	Zoom Slider: Variable speed/Fixed speed (Fast/Normal/Slow, 16 speed level settings available in each mode)	Zoom Rocker: Variable speed/Fixed speed (Fast/Normal/Slow, 16 speed level settings available in each mode)	IEEE 1394 (Firewire)	NO
Focus control	MANUAL: Lens ring, Touchscreen LCD (Touch Focus, Touch and Track), Focus Preset AUTO: Face Priority AF / Face Only AF / Instant AF / Medium AF / TV AF	Ring control or automatic (Instant AF, Medium AF, TV AF, Face Detection AF, Face Only AF)	HD/SD-SDI output	NO
Iris control	MANUAL: Custom dial control; Touchscreen control AUTO: YES	Ring control; Custom dial control; Full Auto	Time code	NO
Aperture range	f1.8 - f8	f1.8 - f22	Genlock	NO
Filter diameter	58mm	58mm	Component out	YES (output only)
Lens elements/groups	12/10	12/10	AV terminal	3.5mm mini jack (output only for video and audio)
Image stabilization system	Optical lens shift system (angle & vector movement detection); 3 modes: Dynamic, Standard, Powered	Optical lens shift system (angle & vector movement detection); 3 modes: Dynamic, Standard, Powered	DC input	YES
Digital zoom	2x	1.5x; 3x; 6x	Remote Control Terminal	2.5mm mini jack
<b>IMAGE PROCESSOR</b>				
Type	DIGIC DV III	DIGIC DV III	Colour Bars	YES (SMPTE)
<b>RECORDING</b>				
Video storage media	64GB built-in flash memory; SDXC/SDHC/SD memory card (2 card slots); Double slot (simultaneous) recording and Relay (continuous) recording possible. <sup>1</sup>	Type 1 Compact Flash memory cards (2 card slots); Double slot (simultaneous) recording and Relay (continuous) recording possible. <sup>1</sup>	<b>MISC</b>	
Type	Class 4 or higher SDHC card required for 1920x1080 recording	UDMA4, 30MB/s or faster (40MB/s or faster for Fast/Slow recording)	Tally lamp	YES
Recording time	64GB internal memory or SDXC card: 5hrs 55mins (MXP mode, max. quality) <sup>1</sup> 24hrs 30mins (LP mode, lowest quality) <sup>1</sup>	32GB CF card: Up to 80mins (1080/50i @ 50 Mbps)	Accessory shoe	YES (cold shoe)
Recording file format	AVCHD high profile (MPEG4-AVC/H.264) AVCHD (all modes variable bit rate, 4:2:0 colour sampling)	Material eXchange Format (MXF) MPEG-2 Long GOP	Custom key	YES (2 assignable buttons; select from 9 functions)
Recording format	MXP: 1920x1080, 24Mbps; FXP: 1920x1080, 17Mbps; XP+: 1440x1080, 12Mbps; SP: 1440x1080, 7Mbps; LP: 1440x1080, 5Mbps	50Mbps CBR (4:2:2) MPEG-2 422@HL; 35Mbps VBR (4:2:0) MPEG-2 MP@HL; 25Mbps CBR (4:2:0) MPEG-2 MP@HL4	Custom Dial	YES (Shutter Priority (Tv), Aperture Priority (Av), Manual Exposure, exposure compensation, AGC limit)
Recording frame rate	1920 x 1080/50i; 1920 x 1080/25p (50i recorded stream)	50Mbps: 1920 x 1080/50i, 25p; 1280 x 720/50p, 25p; 35Mbps: 1920 x 1080/50i, 25p; 1280 x 720/50p, 25p; 25Mbps: 1440 x 1080/50i, 25p	<b>EXPOSURE</b>	
Slow/Fast motion	NO	YES. 720p: 12, 15, 18, 20, 21, 22, 23, 24, 25, 26, 27, 28, 30, 32, 34, 37, 42, 45, 48, 50fps 1080p: 12, 15, 18, 20, 21, 22, 23, 24, 25fps YES. 2, 6 or 12 frames, 25 time intervals YES. 2, 6 or 12 frames YES (3 seconds)	Exposure metering	Centre-weighted average or segment evaluative (determined by shooting mode)
Interval Record	NO	YES. 2, 6 or 12 frames, 25 time intervals YES. 2, 6 or 12 frames YES (3 seconds)	Exposure range	-2 to +2 EV (13 steps)
Frame Record	NO	YES. Up/down, left/right, up/down/left/right image inversion	Exposure compensation	Smart Auto, Face Detection AE
Pre Record (cache record)	YES (3 seconds)	YES. Up/down, left/right, up/down/left/right image inversion	Auto Exposure mode	No
Scan Reverse	YES, Up/down, left/right, up/down/left/right image inversion	-	Push Auto Iris	Yes
HD->SD conversion	YES (during playback)	-	Exposure Lock	Full Auto / AGC On / Manual
Internal Data Transfer	MOVIE & STILLS: Yes (internal memory to card, card to card)	-	Auto Gain Control setting	0 to 24dB, 1dB increments (0 to 18dB in Cinema Mode)
<b>LCD</b>				
Size	8.8cm (3.5"), 100% view	8.8cm (3.5"), 100% view	Auto Gain Control limit	0 to 24dB, 1dB increments
Dots	922,000	920,000	Gain setting	0 to 24dB, 1dB increments
Image quality adjustments	Brightness, backlight	Brightness, contrast, colour, sharpness, backlight, black & white	<b>SHUTTER SPEED</b>	
Adjustable	YES (270 degree rotation about horizontal axis)	Yes (270 degree rotation about horizontal axis)	Control Modes	Full Auto / Manual control (touchscreen LCD or control dial)
Waveform Monitor	YES	YES	Shutter speed	1/6 to 1/2000 (depending on Scene Mode and frame rate)
Focus Assist	Peaking; Magnifying; Edge Monitor (using waveform display)	Peaking; Magnifying; Edge Monitor (using waveform display)	Shutter Angle	-
Peaking	YES	Peaking 1, Peaking 2 (Colour, Gain, Frequency customisable for each)	Slow Shutter (SLS)	1/2 to 1/500 (Low Light Scene Mode)
Zebra	YES (70% or 100% reference level)	Output via HDMI	Clear Scan	NO
Markers	ON/OFF (Grid, Horizontal, Centre)	On/OFF (Aspect ratio, Safe area, Grid, Horizontal, Centre)	<b>INFRARED</b>	
<b>BATTERY</b>				
Backup power supply	Lithium coin battery (built-in)	Lithium coin battery (built-in)	Infrared shooting mode	YES (green or white)
Power Consumption	3.2Wh <sup>2</sup>	5.1Wh <sup>3</sup>	Built-in IR lamp	YES
Continuous Recording	Supplied BP-808: Approx. 110 minutes <sup>2</sup> Optional BP-827: Approx. 345 minutes <sup>2</sup>	Supplied BP-925: Approx. 205 minutes <sup>3</sup> Optional BP-975: Approx. 635 minutes <sup>3</sup>	<b>WHITE BALANCE</b>	
<b>MISCELLANEOUS</b>				
Dimensions	Approx 130 x 177 x 205mm (including lens hood and microphone holder)	Approx 139 x 191 x 268mm (including lens hood and microphone holder)	Auto Preset	YES Set 1, Set 2, Preset (Daylight, Shade, Cloudy, Tungsten, Fluorescent H, Fluorescent, Colour Temperature)
Detachable handle	YES	-	<b>AUDIO</b>	
Weight (camera only)	775g	1020g	Recording	Dolby Digital 2ch (AC-3 2ch), 48kHz sampling
Weight (fully equipped)	820g	1120g	Control	Audio limiter, Auto/manual settings via control dials on handle
Operating Temperature range	-5°C to +45°C, 60% relative humidity	-5°C to +45°C, 60% relative humidity	Microphone attenuation	YES
<b>ACCESSORIES</b>				
Optional				
Wide Converter WD-H5BW, Teleconverter TL-H5B, 58mm lens filters, Batteries BP-808/BP-819/BP-827, Battery Charger CG-800, Video Light VL Li II, Remote Control ZR-2000, Component Cable CTC-100, HDMI cable HTC-100, Wireless Microphone WM-V1.				
<b>BATTERY</b>				
Backup power supply				
Power Consumption				
Continuous Recording				
<b>MISCELLANEOUS</b>				
Dimensions				
Detachable handle				
Weight (camera only)				
Weight (fully equipped)				
Operating Temperature range				

1. Recording for more than 12 hours continuously is not possible
2. MXP mode, using EVF
3. 50Mbps CBR mode, using EVF

All data is based on Canon's standard testing methods. Specifications are subject to change without notice. ™ and ®: All company and/or product names are trademarks and/or registered trademarks of their respective manufacturers in their markets and/or countries.

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