

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



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; 3.5mm jack, 2ch Dolby Digital	2x XLR input; 3.5mm 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



Specification

	XA10	XF100	XA10	XF100
IMAGE SENSOR				
Sensor System	1/3 type HD CMOS Pro Bayer pattern filter	1/3 type CMOS Bayer pattern filter		
Total pixels per sensor	2.37 megapixels	2.37 megapixels		
Effective pixels per sensor	2.07 megapixels	2.07 megapixels		
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)		
Horizontal Resolution	900 TV lines or more (1920 x 1080i mode)	900 TV lines or more (1920 x 1080i mode)		
LENS				
Zoom ratio	10x	10x		
Focal length	4.25 - 42.5mm (35mm equivalent: 30.4 - 304mm)	4.25 - 42.5mm (35mm equivalent: 30.4 - 304mm)		
Minimum focus distance	60cm (throughout zoom range); 20mm (wide angle)	60cm (throughout zoom range); 20mm (wide angle)		
ND filter	Built-in gradation filter (Auto or Off)	Built-in gradation filter (Auto or Off)		
Zoom control	Slider or Handle; Selectable Shockless Zoom mode	Ring, Rocker or Handle; Selectable Shockless Zoom mode		
Zoom speed	Zoom Slider: Variable speed/Fixed speed (Fast/Normal/Slow, 16 speed level settings available in each mode) Handle zoom: 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) Handle zoom: Fixed speed (Fast/Normal/Slow, 16 speed level settings available in each mode)		
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)		
Iris control	MANUAL: Custom dial control; Touchscreen control AUTO: YES	Ring control; Custom dial control; Full Auto		
Aperture range	f1.8 - f8	f1.8 - f22		
Filter diameter	58mm	58mm		
Lens elements/groups	12/10	12/10		
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		
Digital zoom	2x	1.5x; 3x; 6x		
IMAGE PROCESSOR				
Type	DIGIC DV III	DIGIC DV III		
RECORDING				
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. ¹	Type 1 Compact Flash memory cards (2 card slots); Double slot (simultaneous) recording and Relay (continuous) recording possible. ¹		
Type	Class 4 or higher SDHC card required for 1920x1080 recording	UDMA4, 30MB/s or faster (40MB/s or faster for Fast/Slow recording)		
Recording time	64GB internal memory or SDXC card: 5hrs 55mins (MXP mode, max. quality) ¹ 24hrs 30mins (LP mode, lowest quality) ¹	32GB CF card: Up to 80mins (1080/50i @ 50 Mbps)		
Recording file format	AVCHD high profile (MPEG4-AVC/H.264)	Material eXchange Format (MXF)		
Recording format	AVCHD (all modes variable bit rate, 4:2:0 colour sampling) MXP: 1920x1080, 24Mbps; FXP: 1920x1080, 17Mbps; XP+: 1440x1080, 12Mbps; SP: 1440x1080, 7Mbps; LP: 1440x1080, 5Mbps	MPEG-2 Long GOP 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@H1.4		
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		
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		
Interval Record	NO	YES. 2, 6 or 12 frames, 25 time intervals		
Frame Record	NO	YES. 2, 6 or 12 frames		
Pre Record (cache record)	YES (3 seconds)	YES (3 seconds)		
Scan Reverse	YES. Up/down, left/right, up/down/left/right image inversion	YES. Up/down, left/right, up/down/left/right image inversion		
HD->SD conversion	YES (during playback)	-		
Internal Data Transfer	MOVIE & STILL: Yes (internal memory to card, card to card)	-		
LCD				
Size	8.8cm (3.5"), 100% view	8.8cm (3.5"), 100% view		
Dots	922,000	920,000		
Image quality adjustments	Brightness, backlight	Brightness, contrast, colour, sharpness, backlight, black & white		
Adjustable	YES (270 degree rotation about horizontal axis)	YES (270 degree rotation about horizontal axis)		
Waveform Monitor	YES	YES		
Focus Assist	Peaking; Magnifying; Edge Monitor (using waveform display)	Peaking; Magnifying; Edge Monitor (using waveform display)		
Peaking	YES	Peaking 1, Peaking 2 (Colour, Gain, Frequency customisable for each)		
Zebra	YES (70% or 100% reference level)	Level 1; Level 2; Both; Output via HDMI		
Markers	ON/OFF (Grid, Horizontal, Centre)	ON/OFF (Aspect ratio, Safe area, Grid, Horizontal, Centre)		
EVF				
Size	0.61cm (0.24"), 100% view	0.61cm (0.24"), 100% view		
Dots	260,000	260,000		
Image quality adjustments	-	Brightness, contrast, colour, backlight, black & white		
Adjustable	-	Vertical tilt		
Correction lens	+2.0 to -5.5 diopter	+2.0 to -5.5 diopter		
INPUTS/OUTPUTS				
Audio in	XLR inputs with 48V phantom power (x2), 3.5mm microphone input jack	XLR inputs with 48V phantom power (x2), 3.5mm microphone input jack		
Headphone output	3.5mm stereo jack	3.5mm stereo jack		
Video monitor output	NO	NO		
HDMI	YES (HDMI™ Mini Connector: v1.3, out only, 1080/50p output possible)	YES (Type A, output only)		
IEEE 1394 (Firewire)	NO	NO		
USB	YES (Mini-B, USB 2.0 Hi-Speed)	YES (Mini-B, USB 2.0 Hi-Speed)		
HD/SD-SDI output	NO	NO		
Time code	NO	NO		
Genlock	NO	NO		
Component out	YES (output only)	YES (output only)		
AV terminal	3.5mm mini jack (output only for video and audio)	3.5mm mini jack (output only for video and audio)		
DC input	YES	YES		
Remote Control Terminal	2.5mm mini jack	2.5mm mini jack		
Colour Bars	YES (SMPTE)	Type 1/Type 2 (EBU/SMPTE)		
MISC				
Tally lamp	YES	YES (x2)		
Accessory shoe	YES (cold shoe)	YES (cold shoe)		
Custom key	YES (2 assignable buttons; select from 9 functions)	YES (10 assignable buttons; select from 34 functions)		
Custom Dial	YES (Shutter Priority (Tv), Aperture Priority (Av), Manual Exposure, exposure compensation, AGC limit)	YES (Iris, teleconverter, headphone volume, Face AF, IR Lamp control)		
EXPOSURE				
Exposure metering	Centre-weighted average or segment evaluative (determined by shooting mode)	Standard (centre weighted), Spotlight, Backlight		
Exposure range	-2 to +2 EV (13 steps)	50 - 100,000 lux		
Exposure compensation	Smart Auto, Face Detection AE	-2 to +2 EV (13 steps)		
Auto Exposure mode	No	Full Auto		
Push Auto Iris	NO	No		
Exposure Lock	YES	Full Auto / AGC On / Manual		
Auto Gain Control setting	0 to 24dB, 1dB increments (0 to 18dB in Cinema Mode)	3dB; 6dB; 9dB; 12dB; 15dB; 18dB; 21dB (OFF/24dB)		
Auto Gain Control limit	0 to 24dB, 1dB increments	Assignable L, M, H settings (-6dB / -3dB / 0dB / 3dB / 6dB / 12dB / 18dB / 24dB / 33dB / TUNE (0.5 dB increments from 0 to 24 dB))		
Gain setting	0 to 24dB, 1dB increments			
SHUTTER SPEED				
Control Modes	Full Auto / Manual control (touchscreen LCD or control dial)	Full Auto / Manual joystick control (Auto; Speed; Angle; Clear Scan (CS); Slow Shutter (SLS); IR Slow Shutter)		
Shutter speed	1/6 to 1/2000 (depending on Scene Mode and frame rate)	1/18 to 1/2000 depending on frame rate		
Shutter Angle	-	11.25° to 360° depending on frame rate		
Slow Shutter (SLS)	1/2 to 1/500 (Low Light Scene Mode)	1/3, 1/6, 1/12, 1/25 (depending on frame rate)		
Clear Scan	NO	50i/p: 50 to 251.15Hz; 25p: 25 to 251.15Hz		
INFRARED				
Infrared shooting mode	YES (green or white)	YES (green or white)		
Built-in IR lamp	YES	YES		
WHITE BALANCE				
Auto Preset	YES	YES		
Set 1, Set 2, Preset (Daylight, Shade, Cloudy, Tungsten, Fluorescent H, Fluorescent, Colour Temperature)	Set 1, Set 2, Preset (Daylight, Shade, Cloudy, Tungsten, Fluorescent H, Fluorescent, Colour Temperature)	A, B, Preset (Daylight, Tungsten), Colour Temperature		
AUDIO				
Recording	Dolby Digital 2ch (AC-3 2ch), 48kHz sampling	16-bit 2ch (48 kHz) linear PCM		
Control	Audio limiter, Auto/manual settings via control dials on handle	Audio limiter, Auto/manual settings via control dials on handle		
Microphone attenuation	YES	YES		
Microphone level meter	YES	YES		
Zoom Microphone	YES (customisable frequency response and directivity)	-		
ACCESSORIES				
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.	Wide Converter WD-H5BW, Teleconverter TL-H5B, Batteries BP-930, BP-945, BP-950G, BP-970C, BP-955, BP-975, Compact Power Adapter CA-920, Compact Car adapter CB-920, DC Coupler DC-920, Shoulder Brace SBR-1000, Tripod Adapter TA-100, Zoom Remote Control ZR-2000, Video Light VL-10Li II, Tripod Base TB-1.		
BATTERY				
Backup power supply	Lithium coin battery (built-in)	Lithium coin battery (built-in)		
Power Consumption	3.2W ²	5.1W ³		
Continuous Recording	Supplied BP-808: Approx. 110 minutes ² Optional BP-827: Approx. 345 minutes ²	Supplied BP-925: Approx. 205 minutes ³ Optional BP-975: Approx. 635 minutes ³		
MISCELLANEOUS				
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)		
Detachable handle	YES	-		
Weight (camera only)	775g	1020g		
Weight (fully equipped)	820g	1120g		
Operating Temperature range	-5°C to +45°C, 60% relative humidity	-5°C to +45°C, 60% relative humidity		

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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UK English Edition 0153W576
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