

XA25

Professional Camcorder

Canon

The XA25 is a compact, high-performance professional camcorder designed specifically for “run-and-gun,” ENG-style shoots with enhanced I/O connectivity.

The XA25 offers a unique combination of high-precision optics, outstanding image processing, multiple recording formats, flexible connectivity and intuitive user features. But its compact design does not mean compromised functionality – this small and lightweight camcorder meets the quality and performance standards necessary for use in a wide range of applications, including news gathering, law enforcement and military, education and documentary, among others.

A powerful, all-new Genuine Canon 20x HD Video Lens with SuperRange Optical Image Stabilization and a new 8-Blade Circular Aperture extends user creativity; while a new 2.91 Megapixel Full HD CMOS Sensor and new DIGIC DV 4 Image Processor capture superb images with outstanding clarity.

The camcorder features both MP4 (up to 35 Mbps) and AVCHD (up to 28 Mbps) codecs at up to 1080/50p resolution for virtually blur-free, high-quality capture of fast-moving subjects. Dual-band, built-in Wi-Fi® technology allows easy FTP file transfer and upload to the internet.

A 3.5-inch OLED Touch Panel Display with the equivalent of 1.23 million dots of resolution offers a high contrast ratio, a wide-view angle and high-speed response, while a pair of SDHC/SDXC-compatible card slots enable Relay Recording, double-slot recording, and all-new Dual Recording, which enables the XA25 to capture video in different recording formats simultaneously.

An HD/SD-SDI port allows uncompressed video with embedded audio and timecode data to be output to video editors, recorders, news trucks, workstations and other digital cinema/TV hardware.



Key Features

Professional level optical performance and high definition

- Three newly-developed key components
 - Newly-developed wide angle lens with 20x optical zoom
 - New HD CMOS PRO Image Sensor
 - New DIGIC DV 4 image processing platform

Professional level operability

- Enhanced “seesaw” style zoom lever operation
- Zoom function added to the focus ring
- Custom dial provides control over exposure, AGC limit, etc.
- 3.5-inch, 1.23 million-dot equivalent OLED electrostatic touch screen
- 1.56 million-dot high-resolution angle-adjustable CVF

Professional level Shooting Assist Functions

- Professional level MP4 recording
 - Supports high definition MP4 50P (35Mbps) recording

- Supports MP4 (3Mbps) movie recording used for breaking news broadcasts
 - Supports simultaneous recording (AVCHD+MP4, MP4+MP4)
 - Supports slow/fast motion recording (MP4 format)
- Supports AVCHD 50P (28Mbps) recording

Professional level expandability

- Professional level SDI terminal* (XA25 model only)
- Attachable handle featuring 2 XLR terminals
- Supports use of GPS accessory
- Equipped with headphone and remote terminal
- Equipped with Wi-Fi module for wireless connectivity

* Without genlock



XA25 Technical Specifications

CAMERA

Image Sensor	
Sensor	1/2.84 type HD CMOS Pro
System	Bayer pattern filter
Total pixels per sensor	Approx. 3.09 megapixels
Effective pixels per sensor	Approx. 2.91 megapixels (2136 x 1362)
Minimum illumination	Slow Shutter: 0.1 lux
Horizontal Resolution	1000 TV lines or more (Full HD recording)
Lens	
Zoom ratio	20x
Focal length	26.8 - 576mm (35mm equivalent / 28.8-576mm with Dynamic IS on)
Minimum focus distance	60cm (throughout zoom range); 20mm (wide angle)
ND filter	Built-in gradation filter (Auto or Off)
Zoom control	Zoom rockers on body and handle; Selectable manual zoom/focus ring on lens; Selectable High Speed and Soft Zoom modes available.
Zoom speed	Variable (body rocker only) or Constant speed (body and handle rocker; Fast/Normal/Slow, 16 speed level settings in each)
Focus control	MANUAL: Lens ring, Touchscreen OLED (touch Focus, Touch and Track), Focus Preset AUTO: Face Priority AF / Face Only AF / Instant AF / Medium AF / TV AF
Iris control	Custom dial; Touchscreen; Auto
Aperture range	f1.8 - f8
Filter diameter	58mm
Lens elements/groups	12/10
Aperture blades	8 Blade Circular Aperture
Image stabilization system	Optical lens shift system (angle & vector movement detection) + electronic stabilisation; 4 modes: Intelligent (Auto), Dynamic, Standard, Powered
Digital zoom	Up to 400x; Built-in 2x Digital Teleconverter (cannot be used with Digital Zoom)
Image Processor	
Type	DIGIC DV 4

RECORDING

Video storage media	SDXC/SDHC/SD memory card (2 card slots); Dual Format recording, Double slot (simultaneous) recording and Relay (continuous) recording possible. ¹
Type	Class 6 (or higher) cards recommended for 1080/50P recording; Class 4 (or higher) cards recommended for other Full HD recording
Recording time	128GB SDXC card: 10hrs 10mins (AVCHD max. quality) ¹ 8hrs 00mins (MP4 max. quality) ¹ 91hrs 55mins (MP4 lowest quality) ¹
Recording file format	AVCHD Progressive (v2.0, high profile); MP4
Recording format	AVCHD (all modes variable bit rate, 4:2:0 colour sampling): 1920x1080: 50p (28Mbps, linear PCM audio available); 1920x1080: 50i/PF25 (24Mbps, 17Mbps); 144x1080: 50i/PF25 (5Mbps) MP4 (all modes variable bit rate, 4:2:0 colour sampling): 1920x1080: 50p (35Mbps); 1920x1080: 25P (24Mbps, 17Mbps); 1280x720: 25P (4Mbps); 640x360: 25P (3Mbps)
Slow/Fast motion	YES (MP4 HD mode only, 2x fast motion, 0.5x slow motion)
Interval Record	NO

Frame Record	NO
Pre Record (cache record)	YES (3 seconds)
Scan Reverse	NO
HD->SD conversion	YES (AVCHD to MP4)
Internal Data Transfer	MOVIE & STILLs: Yes (internal memory to card, card to card)
Photo storage media	SDXC/SDHC/SD memory card
Still quality	During video recording or playback: 1920 x 1080/1280 x 720/640 x 360

SYSTEM

Monitoring Panel	
Type	Capacitive Organic LED
Size	8.8cm (3.5"), 100% view
Dots	1.23 million-dot equivalent
Image quality adjustments	Brightness, backlight, OLED colour balance
Adjustable	YES (270 degree rotation about horizontal axis)
Waveform Monitor	NO
Focus Assist	Peaking; Magnifying
Peaking	YES
Zebra	YES (70% or 100% reference level)
Markers	ON/OFF (Level, Grid)
EVF	
Size	0.61cm (0.24"), 100% view
Dots	1.56 million dots equivalent
Adjustable	YES (tiltable to 45 degrees)
Correction lens	+ 2.0 to -5.5 diopter
Inputs/Outputs	
Audio in	XLR inputs with 48V phantom power (x2), 3.5mm microphone input jack
Headphone output	3.5mm stereo jack
Video monitor output	NO
HDMI	YES (HDMI™ mini connector, output only, 1080/50p output possible)
IEEE 1394 (Firewire)	NO
USB	YES (Mini-B, USB 2.0 Hi-Speed, output only)
HD/SD-SDI output	YES (576i, 720P or 1080i, output only, embedded audio and time code)
Time code	YES (Embedded in SDI output; superimposed on HDMI Output signal)
Genlock	NO
Component out	NO
AV terminal	3.5mm mini jack (output only for video and audio)
DC input	YES
Remote Control Terminal	2.5mm mini jack
Colour Bars	YES (SMPTE or EBU), with 1KHz Tone
Misc	
Tally lamp	YES, in detachable handle
Accessory shoe	YES (cold shoe)
Custom key	YES (5 assignable buttons; select from 22 functions)
Custom Dial	YES (Shutter Priority (Tv), Aperture Priority (Av), Manual Exposure, exposure compensation, AGC limit)

XA25 Technical Specifications

SHOOTING FUNCTIONS

SHOOTING FUNCTIONS	
Exposure	
Exposure metering	Centre-weighted average or segment evaluative (determined by shooting mode); No metering; Fireworks mode, Fixed exposure (1/50 sec.)
Exposure compensation	-3 to +3 EV (12 steps); Backlight Correction available (Auto or always on)
Auto Exposure mode	Smart Auto, Face Detection AE; Manual control via Touch Exposure and Exposure Compensation functions.
Push Auto Iris	YES (via touchscreen)
Exposure Lock	YES
Auto Gain Control setting	Auto / Manual
Auto Gain Control limit	0 to 24dB, 1dB increments (0 to 18dB in Cinema Mode)
Gain setting	0 to 24dB, 1dB increments (0 to 18dB in Cinema Mode)
Shutter speed	
Control Modes	Full Auto / Manual control (touchscreen LCD or control dial)
Shutter speed	1/6 to 1/2000 (depending on Scene Mode and frame rate)
Clear Scan	NO
Infrared	
Infrared shooting mode	YES (green or white)
Built-in IR lamp	YES, in detachable handle
3D Shooting Assist	
OIS Axis Shift	NO
Focal Length Guide	NO
Shooting Modes	
Smart AUTO	YES
Program AE	AUTO; M mode: P, Tv, Av, M (manual exposure), SCN (Portrait, Sports, Snow, Beach, Sunset, Night, Low Light, Spotlight, Fireworks); Cinema mode: P, Tv, Av, M
Cinema Features	Cinema-Look Filter (9 options, including customisable 'Cinema Standard')
Image Effects	Brightness, Contrast, Sharpness, Colour Depth
Wi-Fi & GPS Specifications	
Wireless LAN standards	IEEE 802.11b/g/n (2.4GHz band) / IEEE 802.11a/n (5GHz band) ²
Supported Wi-Fi Functions	Remote Operation; Movie Uploader (YouTube and Facebook) ³ ; Playback (in browser); Media Server; FTP File Transfer
Supported Browser for Remote Operation	Internet Explorer 8 or later, Safari (iOS), Safari (MacOS), Android standard browser
Remote Operation Control Features	Aperture, Focus, WB, shutter Speed, Gain, Exposure Compensation, Shooting Mode, Slot select, Start/Stop Recording
Live view image Resolution	Camera setting mode: 680 x 383; Simplified setting: 284 x 160
Authentication Systems	Open/WPA-PSK/WPA2-PSK
Encryption	WEP64, WEP128, TKIP, AES
GPS Information (Optional Accessory)	Latitude/Longitude/Elevation, Coordinated Universal Time (UTC)
White balance	
Auto	YES
Preset	6: Daylight, Shade, Cloudy, Tungsten (incandescent lamps or halogen bulbs), Fluorescent H (3-wavelength type fluorescent), Fluorescent (white fluorescent)
Manual setting	Set 1, Set 2, Colour Temperature (2,000–15,000K, 100K steps)

Time code

Countup system	Regen/Rec Run/Free Run/Preset (Non-Drop Frame)
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Start value setting	"00:00:00:00", Set/Reset selectable
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Audio

Recording	AVCHD: Linear PCM ⁴ (2ch, 16 bit, 48 kHz) or Dolby Digital (AC-3 2ch, 48kHz) MP4: MPEG-2 AAC LC (2 ch)
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Control	Audio controls include: - Independent 2ch Line/Mic/Mic+48V input; - Independent level control per channel (-∞ to +18 dB); - Independent audio limiters (2 ch); - Input mic trimming
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Microphone attenuation	Auto/On/Off (20dB)
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Microphone level meter	YES
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Zoom Microphone	YES (customisable frequency response and directivity)
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ACCESSORIES

Supplied	Lens hood with barrier, Mic holder unit, Handle unit (HDU-1), Wireless Controller (WL-D89), Battery Pack BP-820, High Speed HDMI Cable (HTC100/S), Compact Power unit CA-570, AC Cable, Interface Cable (IFC-300PCU/S), Stereo Video Cable (STV-250N), Data Import Utility Ver2.0
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Optional	Canon Battery Pack BP-820/BP-828, Canon Compact Power Adapter CA-570, Canon Battery Charger CG-800E/CG-800B, Canon HDMI cable HTC-100, Canon Stereo Video Cable STV-250N, Canon Tele Converter TL-H58, Canon Wide Attachment WA-H58, Canon Wireless Microphone WM-V1, Canon Soft Carrying Case SC-2000, Canon PROTECT Filter 58 mm, Canon ND4-L Filter 58 mm, Canon ND8-L Filter 58 mm, Canon GPS Receiver GP-E2, Canon Battery Video Light VL-10Li/VL-10LiII (Model A/B only), Canon Battery Pack BP-900 series (for VL-10Li/VL-10LiII), Canon Compact Power Adapter CA-910/920/930 (for charging BP-900 series)
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Battery

Backup power supply	Lithium coin battery (built-in)
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MISCELLANEOUS

Dimensions	Approx. 109 x 84 x 182 mm (main body only) Approx. 131 x 180 x 231 mm (fully equipped)
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Detachable handle	YES
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Weight (camera only)	Approx. 770 g
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Weight (fully equipped)	Approx. 1160 g
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Operating Temperature range	-5°C to +45°C, 60% relative humidity
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Disclaimer

- After 12 hours of continuous recording, camcorder will stop recording and re-start automatically. Simultaneous/Dual Format recording not available in 1080/50P modes.
- 5Ghz not available in Qatar
- iOS devices only, excludes MP4 1080/50P mode
- AVCHD 1080/50P mode only

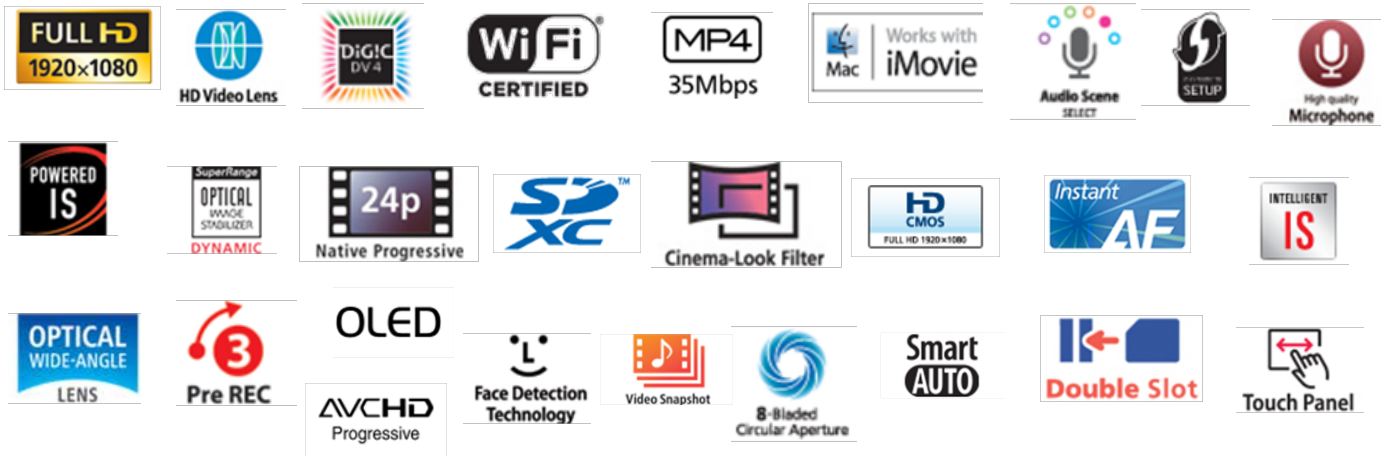
All specifications are subject to change without notice

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Supporting features of the Canon XA25 Professional Camcorder



Canon Australia Pty Ltd

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