

PROFESSIONAL CAMCORDERS



**GET YOUR SHOT  
TELL YOUR STORY**

**Canon**



# STUNNING QUALITY MADE EASY

For capturing those important moments that can't be repeated, from worldwide news to sporting triumphs, milestone announcements and life-changing events to educational lectures, you need a failsafe camcorder that doesn't compromise on image or audio quality. A camera that's easy to use, but allows you to quickly take total control when you need it. And a camera that can connect reliably, without any fuss and broadcast with speed, as well as record high resolution footage to readily-available media cards for maximum flexibility. Canon's professional camcorders deliver all this to help filmmakers tell their stories, time after time. On deadline.

## CANON PROFESSIONAL CAMCORDERS - THE OBVIOUS CHOICE

When it's time to get serious about filmmaking, when nothing but the best will do, it has to be Canon. With an unprecedented history in optical excellence and cameras that have recorded some of the world's biggest events, Canon knows what a professional needs and constantly pushes the boundaries of technology to deliver the very best.

Speed, reliability, ease of use, portability and of course the all-important picture and audio quality are what makes Canon's camcorders so special. You can't afford to risk your reputation on anything else.

As so many different filmmakers need so many different things from their equipment, Canon has a range of high-performance camcorders that deliver the ease of use and uncompromising quality demanded by broadcasters, independent documentary and commercial film producers. Great at low light, with an incredibly wide zoom lens range and fast processing means there is a Canon professional camcorder for every situation.

With stunning image quality from the very latest codecs and large sensors in 4K to fast turnaround productions in Full HD, Canon knows what's important in fast-paced shooting environments and delivers it. Always in a package that's as compact and light as possible, without compromising on ergonomics.

With built-in image stabilisation, the most advanced autofocus system anywhere as well as broadcast-quality audio and HDR-ready workflows in the more advanced models, Canon is the only choice for compact yet hugely capable camcorders.





### Canon Fuels Creative Genius

When two of the world's most experienced documentary filmmakers choose Canon camcorders, you know they are onto something good.

Spaniard Alfonso Parra is a director of photography who shares his time between Europe and South America where he has made 36 narrative drama and documentary feature films and shorts, as well as many TV series and commercials for top brands.

With a shelf full of awards, he is now a Professor of Digital Cinematography at the International School of Film and Television in Cuba and is a published author.

When it comes to choosing equipment for his newest projects, Alfonso has vast experience with lots of cameras but keeps coming back to Canon for the amazing image quality, colour science and usability. And the XF605, thanks to its large sensor which gives amazing low-light performance and gives a film-like look to his movies thanks to a shallow depth of field.

French DOP Sebastien Devaud now utilises this same camcorder along with a range of larger, interchangeable-lens cinema cameras. With a high bitrate 4K output, a cinematic shallow depth of field and Log footage that has lots of highlight and shadow detail that can be graded for a very specific look, Sebastien is a believer that the XF605 is the perfect camera for his work in broadcast and documentary which he can now deliver in 4K.

With everything from fast-turnaround, multi-cam workflows for clients to TV and broadcast, as well as more cinematic films for corporate clients, Canon's professional camcorders deliver it all in incredible quality.

## BUILT FOR PROFESSIONAL USE

Ideal for everything from single-operator handheld shooting in low light to live streaming for broadcast use as part of a multi-camera set-up, Canon's professional camcorders have intuitive controls, long battery life, a rugged build to fend off knocks and scrapes and all the tools you need to tell those important stories without fuss, in amazing quality up to 4K.

Easy to use viewfinders and monitors, logical menu systems and built-in tools to help you get your shots right every time, Canon's camcorders are built to deliver the very best professional results in all situations. And with a range of optional accessories to extend their capabilities even further, Canon's professional camcorder range is the obvious choice for the creative user who wants to take their work to the next level.

Whether recording in the highest quality for extensive post production, or live streaming for instant news broadcast, Canon has the right camera for every filmmaker.







# XF605

A versatile 4K camcorder to get your shot and tell your story with no compromise.

XF605 delivers a new level of performance and control for solo shooters. With 15x optical zoom, professional connectivity and advanced autofocus including Eye Detection AF and intelligent Head Tracking for the first time in the XF Series, it's a versatile camcorder that fits comfortably in the studio or in the field.



TASCAM CA-XLR2d XLR  
This XLR hot shoe adapter sends the audio directly into the camera using the hot shoe.



Battery Charger CG-A20 (supplied) and Compact Power Adapter CA-CP200L (supplied)  
The CG-A20 is a single battery charger for BP-A30 and BP-A60 Li-ion batteries. CA-CP200L can directly supply power to the camera.



Battery Pack BP-A30 (included)/BP-A60  
The BP-A30 (3100mAh) and high capacity BP-A60 (6200mAh) are dedicated Li-ion battery packs for compatible Canon cameras.



GPS receiver GP-E2  
The GP-E2 unit offers GPS tagging and logging abilities help you to locate exactly where your images or videos were taken.

## Other Accessories

SUPPLIED	Lens hood with barrier, Lens Cap, Mic holder unit, Eye Cup, AC Cable, Compact Power Adapter (CA-CP200L) Battery Charger (CG-A20), Battery Pack BP-A30
OPTIONAL	Canon Battery Pack BP-A60, Canon Battery Charger CG-A10 / CG-A20, Canon Compact Power Adapter CA-CP200L, Canon 8 Pin Remote Cable RR-10 / RR-100, Canon Teleconverter TL-U58, Canon Wide Attachment WA-U58, Canon PROTECT Filter 58mm, Canon ND4L Filter 58mm, Canon ND8L Filter 58mm, Canon GPS Receiver GP-E2, Canon Remote Controller RC-V100, Canon Remote Camera Controller RC-IP100, Canon Interface Cable IFC-100U, Canon Interface Cable IFC-40AB III, Canon Interface Cable IFC-150AB III

\* Custom serial / R145 cable required

## Benefits

- 8.29MP 1.0-inch 4K UHD CMOS sensor
- XF-AVC/H.264, MP4 H.265 or MP4 H.264 recording options
- 4K/ 60p in 4:2:2 10-bit, up to 120p in Full HD to single SD card
- Dual Pixel CMOS AF and Face Detection AF
- 3.5" touchscreen LCD monitor
- 15x 25.5-382.5mm optical zoom lens (35mm equivalent) with 5-axis Optical Image Stabilisation (IS)
- 12G-SDI and HDMI output
- ND filters and XLR terminals
- Content Transfer Mobile app support
- XC Protocol

## Image Sensor

SENSOR	1.0 Inch-Type CMOS
FILTER	RGB Primary Colour Filter
TOTAL PIXELS	Approx. 13.4 MP
EFFECTIVE PIXELS PER SENSOR	Approx. 8.29 MP (3840 x 2160)
GAIN BOOST FUNCTION	Yes, increases gain to 36dB, activated via user assigned button
SENSITIVITY (PAL)	f/13, 50.00P, 2000 lux, reflectance 89.9%
MINIMUM ILLUMINATION (PAL)	50.00P / 50.00i Approx. 2.5 lux (1/50 second shutter speed) 25.00P Approx. 13 lux (1/25 second shutter speed)

## Image Processor

TYPE	DIGIC DV7
COLOUR SAMPLING	XF-AVC: 4:2:2 MP4: 4:2:2 or 4:2:0 H.265 / 4:2:0 H.264. XF-AVC / MP4 Proxy files: 4:2:0 XF-AVC / MP4 H.265: 10-bit MP4 H.264: 8-bit XF-AVC / MP4 Proxy files: 8-bit
BIT DEPTH	

## Lens

ZOOM RATIO	15x optical, (30x Advanced Zoom Full HD)
FOCAL LENGTH (35MM EQUIVALENT)	Approx. 25.5 to 382.5 mm Standard IS/IS Off
MINIMUM FOCUS DISTANCE	10 mm at wide end, 60 cm across entire zooming range
MAX. APERTURE	f/2.8
APERTURE BLADES	9 blades
FILTER DIAMETER	58mm
IMAGE STABILIZATION SYSTEM	Optical system (lens shift) + electronic stabilization, Dynamic, Standard, Powered, Off
ND FILTER	3 Densities: ND 1/4, ND 1/16, and ND 1/64 (Turret Switched, Motor-Driven)
ZOOM CONTROL	Zoom rockers on body and handle; Selectable manual zoom/focus ring on lens; Browser Remote; Selectable High Speed mode available. Variable or Constant speed Fast/Normal/Slow, 16 speed level settings
ZOOM SPEED	
FOCUS CONTROL	MANUAL: Lens ring and touchscreen point selection (Focus Guide and Peaking assist functions), Focus Preset. AUTOFOCUS: Touchscreen AF point selection, Face Detection and Tracking, Face Only AF, Face Priority AF (Continuous AF, AF-Boosted MF, AF Speed, AF Response, AF Frame size) Dual Pixel CMOS AF, Contrast AF, Eye Detection AF, EOS iTR AF X

FOCUS SYSTEM	Touchscreen, Auto, Lens ring
IRIS CONTROL	300x Digital Zoom, Digital Teleconverter (x1.5/x3/x6. Not available when optical teleconverter used)
DIGITAL ZOOM / TELECONVERTER	

## Recording

VIDEO STORAGE MEDIA	SD / SDHC / SDXC card (2 card slots)
TYPE	Class U3 V90 cards recommended
RECORDING TIME	XF-AVC: 410Mbps, 39 mins. 310Mbps, 51 mins. 260Mbps, 61 mins. MP4 / H.265: 225 Mbps, 71 mins. 170Mbps, 94 mins. 135 Mbps, 118 mins. MP4 / H.264: 150 Mbps, 107 mins. 35 Mbps, 458 mins. 8Mbps, 2006 mins. FAT32/exFAT

RECORDING FILE SYSTEM	XF-AVC: ALL-I / Long GOP
INTERNAL RECORDING FORMAT (PAL)	MP4: Long GOP Proxy: Long GOP
SIMULTANEOUS RECORDING	Yes. Simultaneous recording, relay recording. Different recording options possible on each memory card.
RECORDING FRAME RATE (PAL)	XF-AVC 422 10bit: (3840 x 2160) 59.94P / 50.00P / 29.97P / 25.00P / 23.98P (1920x1080) 59.94P / 59.94i / 50.00P / 50.00i / 29.97P / 25.00P / 23.98P MP4 (HEVC / H.264) 422 10bit: (3840 x 2160/1920x1080) 59.94P / 50.00P / 29.97P / 25.00P / 23.98P MP4 (HEVC) 420 10bit: (3840 x 2160/1920x1080) 59.94P / 50.00P / 29.97P / 25.00P / 23.98P (1280 x 720) 59.94P / 50.00P MP4 (H.264) 420 8bit: (3840 x 2160/1920x1080) 59.94P / 50.00P / 29.97P / 25.00P / 23.98P (1280 x 720) 59.94P / 50.00P

EXTERNAL OUTPUT (SDI/HDMI)	3840 x 2160: 59.94p / 50.00p / 29.97p / 25.00p / 23.98p 1920 x 1080: 59.94p / 50.00p / 29.97p / 25.00p / 23.98p / 29.97PpF / 25.00PpSF / 59.94i / 50.00i 1280 x 720: 59.94p / 50.00p 720 x 480: 59.94i 720 x 576: 50.00i These two option is only from SDI output. Yes, 12G-SDI or HDMI. Simultaneous output available
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EXTERNAL MONITORING HIGH FRAME RATE	Yes, Up to 120P (FHD, 4:2:2 /10-bit / 8-bit) including in 50.00Hz mode. Simultaneous Audio Recording. Yes. 3 seconds
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PRE-RECORD FUNCTION SPECIAL RECORDING FUNCTIONS STILL PHOTOS	Frame Recording, Interval Recording
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PHOTO STORAGE MEDIA	JPEG up to 3840x2160 (Still image resolution is dependent on the video resolution) SD Card (Slot B)
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## System

DISPLAY TYPE SIZE	LCD Electrostatic Touch Panel. 3.5-inch type Approx. 2.76 million dots
WAVE FORM MONITOR	Yes
FOCUS ASSIST PEAKING	Dual Pixel Focus Guide* / Peaking / Magnify
FALSE COLOUR DISPLAY	Selectable Peaking Colour: Red / Blue / Yellow/White
ZEBRA MARKERS	Yes, also via EVF, SDI output and HDMI output Yes. Brightness level selectable. Center, horizontal, vertical, grid, aspect, safety zone, and user marker. Each item can be displayed in yellow, blue, green, red, black, gray, or white.

## EVF

SIZE	0.36-inch type, approx. 1.77 million dots
EVF AUTO-OFF	Yes, function enabled/disabled via assignable button
CORRECTION LENS	+2.0 to -5.5 dioptre

## Inputs / Outputs

AUDIO IN	XLR 3-pin jack (x2) with 48V phantom power, Line and Mic, 3.5mm microphone input jack (Supply Voltage 2.4V DC), Built-in Mic. 3.5mm stereo mini jack
HEADPHONE OUTPUT SPEAKER	Yes, built-in
HDMI USB	HDMI™ Type A 1 x Type A. Type A power output 5V/900mA 1 x Type C. Type C compliant with PTP and UVC
SDI OUTPUT	12G-SDI, BNC connector
TIME CODE	Yes, BNC connector
GENLOCK	Yes
LAN	Yes
DC INPUT	3.4mm jack
REMOTE CONTROL TERMINAL	Type A (2.5mm jack), Type B (8-pin connector, RS422-type)

## Miscellaneous

TALLY LAMP	Yes
COLOUR BARS (PAL)	Yes. SMPTE or EBU or ARIB, with 1kHz Tone
ACCESSORY SHOE	Yes. Accessory and Cold shoe
ASSIGNABLE BUTTONS	Total of 11 Assignable Buttons with over 100 Assignable Functions

## Exposure

EXPOSURE METERING	Centre-weighted average or segment evaluative (determined by shooting mode) Fixed exposure (1/50 sec.)
EXPOSURE COMPENSATION	Highlight AE, Exposure lock, Auto backlight compensation, Exposure compensation amount shown as ±3 when locked or ±2 in AUTO (±8 increments). Yes
EXPOSURE LOCK	Yes
ISO RANGE/SETTING	ISO200 - ISO12,800. 1 Stop or 1/3 Stop increments
GAIN RANGE/ SETTING	-6.0dB - 21.0dB. Normal or Fine setting. Fine setting in 0.5dB steps.
AUTO ISO / AUTO GAIN CONTROL SETTING	Auto / Manual. Auto Gain set when shooting in IR mode
AUTO GAIN CONTROL LIMIT	Yes, selectable from -6dB to 21dB, 1dB increments

## Shutter

SHUTTER SPEED	Up to 1/2000 Sec.
SHUTTER ANGLE	Yes, 360° to 1125°
SLOW SHUTTER (SLS)	50.00i/50.00P: 1/3, 1/6, 1/12, 1/25 sec. 25.00P: 1/3, 1/6, 1/12 sec
CLEAR SCAN	Yes, 24.00Hz to 2003.17Hz

## Streaming, Wi-Fi, & GPS Specifications

IP STREAMING PROTOCOLS SUPPORTED	XC Protocol, UDP, RTP, RTP+ FEC, RTSP+ RTP
NEWS METADATA	Yes, compliant with NewsML-G2 standard
BROWSER REMOTE CONTROL	Yes
WI-FI	Yes, built in
SUPPORTED WI-FI	IEEE 802.11b/g/n (2.4GHz) IEEE 802.11a/n/ac (5GHz) (5GHz may not be available in all regions)
GPS INFORMATION (OPTIONAL ACCESSORY)	Location (Latitude/ Longitude / Altitude), Coordinated Universal Time (UTC), Satellite reception (requires the optional GPS Receiver GP-E2)

## White Balance

AUTO	Yes. Shockless WB, AWB Response, AWB Hold (via assignable button)
PRESET	Daylight (Approx. 5,600K), Tungsten (Approx. 3,200K)
MANUAL SETTING	Colour Temperature range: 2,000-15,000K Default value for Set 1 and Set 2: 5,600K

## Time Code

COUNT UP SYSTEM	Regen / Rec Run / Free Run / Preset (Drop Frame/Non-Drop Frame Selectable)
START VALUE SETTING	Yes, Via BNC

## Audio

RECORDING FORMAT	MP4: MPEG-2 AAC-LC (16-bit 2ch) / LPCM (16-bit 4ch) XF-AVC: LPCM (24-bit 4ch)
AUDIO CONTROL	Manual or Auto. Independent 2ch Line/Mic/Mic+48V input; Independent level control per channel (-∞ to +18 dB); Independent audio limiters (2-Ch.); Input mic trimming 1KHz, -12dB / -18dB / -20dB / Off Off / On (20dB)
REFERENCE TONE	
MICROPHONE ATTENUATION	
MICROPHONE LEVEL METER	Yes

## Power Source

POWER SUPPLY (BATTERY)	Canon Battery Pack BP-A30 (supplied), BP-A60 (optional)
POWER SUPPLY (MAINS)	Battery: 14.4V, DC in: 24V
POWER CONSUMPTION	Approx 13.6W (50.00P UHD, Long GoP 260 Mbps) Approx 12.1W (25.00P UHD Intra 410 Mbps)
RECORDING TIME	Continuous Recording Time (with BP-A30 battery), Approx 185 mins. 50.00P UHD, Long GoP 260 Mbps] Approx 210 mins. (25.00P UHD Intra 410 Mbps)

## Physical Specifications

DIMENSIONS (MAIN BODY ONLY)	Approx. 168 x 173 x 333 mm (Body Only) Approx. 200 x 219 x 385 mm (including lens hood, eye cup, microphone holder unit) 2010g (Approx.)
WEIGHT (BODY ONLY)	
WEIGHT (ACCESSORIES)	2460g (Approx.)
OPERATING TEMPERATURE RANGE	Approx. 0 to 40 °C, 85 % (relative humidity) Approx. -5 to 45 °C, 60 % (relative humidity)









# XA75/XA70

## Benefits

- 8.29MP 1.0-inch 4K UHD CMOS sensor
- XF-AVC and MP4 LongGOP recording
- 4K / 25p in 4:2:0 8-bit, to dual SD cards
- Dual Pixel CMOS AF and Face Detection AF
- 3" touchscreen LCD monitor
- Built-in ND filters
- 15x 25.5-382.5mm optical zoom (35mm equivalent) with 5-axis Optical Image Stabilisation (IS)
- 3G-SDI (XA75 only) and Mini HDMI output
- Professional audio
- UVC via USB-C

## Image Sensor

SENSOR	1.0-Inch Type CMOS
SENSOR	RGB Primary Colour Filter
TOTAL PIXELS	Approx. 13.4MP
EFFECTIVE PIXELS PER SENSOR	Approx. 8.29MP (3840x2160)
SUBJECT ILLUMINATION RANGE	Approx. 0.1 lx to 100,000 lx
MINIMUM ILLUMINATION (PAL/50.00HZ MODE)	P Mode: Approx. 1.4 lx (shutter speed 1/25 sec., 50.00P; with auto slow shutter On) Low Light Mode: Approx. 0.1 lx (shutter speed 1/2 sec.)

## Lens

ZOOM RATIO	15 x Optical
FOCAL LENGTH	35mm equivalent; Approx. 25.5 to 382.5 mm Standard IS/IS Off
MINIMUM FOCUS DISTANCE	10 mm at wide end, 60 cm across entire zooming range
ND FILTER	3 densities: turret switched, motor-driven. ND 1/4, ND 1/6, and ND 1/64
ZOOM CONTROL	Zoom rockers on body and handle; Selectable manual zoom/focus ring on lens; Wireless controller; Selectable High Speed mode available. Variable (body rocker only) or Constant speed (body rocker, handle rocker and wireless controller; Fast / Normal/Slow, 16 speed level settings in each)
ZOOM SPEED	MANUAL: Lens ring and touchscreen point selection (Focus Guide and Peaking assist functions), Focus Preset. AUTOFOCUS: Touchscreen AF point selection, Face Detection and Tracking, Face Only AF, (Continuous AF, AF-Boosted MF, AF Speed, AF Response, AF Frame size)
FOCUS CONTROL	Dual Pixel CMOS AF, Contrast AF Touchscreen, Auto
FOCUS SYSTEM	t/2.8 - f/11 (AV Priority and Manual Modes)
IRIS CONTROL	9 blades
APERTURE	58mm
APERTURE BLADES	Optical system (lens shift) + electronic stabilization
FILTER DIAMETER	Dynamic, Standard, Powered, Off
IMAGE STABILISATION SYSTEM	
DIGITAL ZOOM / TELECONVERTER	300x Digital Zoom, 2x Digital Teleconverter

## Image Processor

TYPE	Dual DIGIC DV6
DYNAMIC RANGE	800% in Wide DR mode
COLOUR SAMPLING	YCC 4:2:0
BIT DEPTH	8-Bit

## Recording

VIDEO STORAGE	SD/SDHC/SDXC card (2 card slots) Class U3 cards recommended
MEDIA TYPE	
RECORDING TIME (64GB CARD APPROX.)	MP4: 150Mbps: 55 mins / 35Mbps: 220 mins XF-AVC: 160 Mbps: 50 mins / 45 Mbps: 185 mins
RECORDING FILE SYSTEM	FAT32/exFAT
INTERNAL RECORDING	XF-AVC: 3840 x 2160 (160Mbps) / 1920 x 1080 (45 Mbps) MP4: 3840 x 2160 (150Mbps) / 1920 x 1080 (35/17 Mbps)
EXTERNAL RECORDING	SDI* / HDMI output (Camera mode) UHD recording mode: 1920 x 1080 25.00P YCC4:2:2 8-bit Full HD recording mode: 1920 x 1080 50.00P/25.00P; 1280 x 720 50.00P YCC4:2:2 10-bit * SDI output with XA75 only
EXTERNAL MONITORING	SDI* / HDMI (50.00i) * SDI output with XA75 only
RECORDING FRAME RATE (PAL MODE)	MP4: 25.00P (UHD), 50.00P/25.00P (Full HD) XF-AVC: 25.00P (UHD), 50.00P/50.00i/25.00P (Full HD)
SLOW/FAST MOTION (PAL/50HZ MODE)	3840 x 2160 / 25.00P: x2, x4, x10, x20, x60, x120, x200, x1200 1920 x 1080 / 50.00P: x2, x4, x10, x20, x60, x120, x600, x1200 1920 x 1080 / 25.00P: x0.5

PRE RECORDING FUNCTION	Yes, 3 seconds
STILL PHOTOS	JPEG up to 3840x2160 (Still image resolution is dependent on the video resolution) SD Card
PHOTO STORAGE MEDIA	

## Audio

RECORDING	MP4: MPEG-2 AAC-LC (16-bit 2ch) / LPCM (16-bit 4ch) XF-AVC: LPCM (24-bit 4ch)
AUDIO CONTROL	Manual or Auto Independent 2ch Line/Mic/ Mic+48V input; Independent level control per channel (-∞ to +18 dB); Independent audio limiters (2 ch); Input mic trimming 1KHz, -12dB / -18dB / -20dB / Off On/Off (20dB)
REFERENCE TONE	
MICROPHONE ATTENUATION	Yes
MICROPHONE LEVEL METER	

## Panel

TYPE	LCD Capacitive touch panel
SIZE	3-inch (7.5 cm, approx. 460,000 dots)
WAVEFORM MONITOR	No
FOCUS ASSIST	Dual Pixel Focus Guide / Peaking / Magnify
PEAKING	Selectable Peaking Colour: Red / Blue / Yellow
ZEBRA	70% or 100% reference level
MARKERS	Grid (white/grey) and Level (white/grey)

## Viewfinder

SIZE	0.24-inch, approx. 1.56 million dots
CORRECTION LENS	+2.0 to -5 dioptre

## Inputs / Outputs

AUDIO INPUT	XLR 3-pin jack (x2) with 48V phantom power, Line and Mic options on detachable handle, 3.5mm microphone input jack (Supply Voltage 2.4V DC), Built-in Mic, 3.5mm stereo mini jack
HEADPHONE OUTPUT	
HDMI OUTPUT	HDMI™ mini connector
USB	Type B, Hi-Speed USB, PTP class supported
SDI OUTPUT	XA75: 3G-SDI with BNC connector XA70: No
TIME CODE	Superimposed on HDMI output signal (Camera Mode only)
GENLOCK	No
LAN	No
AV TERMINAL	No
DC INPUT	3.4mm Jack
REMOTE CONTROL TERMINAL	2.5mm mini jack

## Exposure

EXPOSURE METERING	Centre-weighted average or segment evaluative (determined by shooting mode) No metering: Fireworks mode, Fixed exposure (1/50 sec.)
EXPOSURE COMPENSATION	Highlight AE, Exposure lock, Auto backlight compensation, Exposure compensation amount shown as ±5 when locked or ±2 in AUTO (±8 increments). Yes
EXPOSURE LOCK	Auto / Manual
AUTO GAIN CONTROL SETTING	
AUTO GAIN CONTROL LIMIT	Wide DR Mode selected: 9 - 38dB (1 dB increments) Wide DR Mode Off: 0 -38 dB (1 dB increments)

## White Balance

AUTO PRESET	Auto, Manual
MANUAL SETTING	Daylight (Approx. 5,600K), Tungsten (Approx. 3,200K) Colour Temperature range: 2,000-15,000K Default value for Set 1 and Set 2: 5,600K

## Shutter Speed

CONTROL MODES	Auto, P, Tv, Manual
SHUTTER SPEED (PAL)	1/6 - 1/2000 sec (1/2 - 1/500 sec in Low Light mode)
SLOW SHUTTER (SLS)	50.00P: Auto slow shutter On: 1/25 to 1/500 sec. Auto slow shutter Off: 1/50 to 1/500 sec. 25.00P: Auto slow shutter On: 1/12.5" to 1/500 sec. (*Display is 1/12) Auto slow shutter Off: 1/25 to 1/500 sec.
CLEAR SCAN	No

## Shooting Modes

PROGRAM AE	AUTO Mode Manual Mode: P, Tv, Av, M (manual exposure), SCN (Portrait, Sports, Snow, Beach, Sunset, Night, Low Light, Spotlight, Fireworks)
CUSTOM PICTURE MENU	CP Files* C1: Normal C2: Wide DR C3: Canon Log3 C4: EOS Sd C5: USER05 C6: USER06 Gamma / Colour Space: BT.709 Wide DR / BT.709 Canon Log 3 / BT.709 EOS Std. / BT.709 BT.709 Normal / BT.709 BT.709 Standard / BT.709 Colour Matrix: Neutral / Production Camera / EOS Std. / Video Yes (green or white)
INFRARED SHOOTING MODE	Yes, in detachable Handle Unit.
BUILT-IN IR LAMP	Wavelength: 850nm (near-Infrared)
LOOK SETTINGS	Standard, Neutral, Wide DR, Monochrome (Adjustment: Sharpness, Contrast, Colour Depth)

## Wi-Fi & GPS Specifications

WI-FI	No
GPS INFORMATION (OPTIONAL ACCESSORY)	Location (Latitude/Longitude/Altitude), Coordinated Universal Time (UTC), Satellite reception. (requires the optional GPS Receiver GP-E2)

## Time Code

COUNT UP SYSTEM	Regen / Rec Run / Free Run / Preset (Non-Drop Frame)
TIME CODE OUT	Via HDMI out. Superimposed on output, Camera Mode only

## Misc.

TALLY LAMP	Yes, in detachable Handle Unit
COLOUR BARS	Yes. SMPTE or EBU, with 1KHz Tone
ACCESSORY SHOE	Yes (cold shoe)
ASSIGNABLE BUTTONS	5 assignable buttons*: Assignable to: Digital Tele converter / AF / MF / AF Frame / Face Only AF / Magnification / Peaking / Push Auto Iris / Zebra 70% / Zebra 100% / Focus Guide / BLC Always On / Powered IS / White Balance / Set WB / WB Priority / IR Light / Pre REC / Slow and Fast Motion / Review Recording / Photo / Monitor Channel / Marker / Menu / Custom Picture / Off Av / Tv / M / AGC Limit / Exposure Compensation / Off
CUSTOM DIAL DIMENSIONS	Approx. 109 x 91 x 21.4 mm (main body only) Approx. 140 x 216 x 26.5 mm (including lens hood, BP-820, mic holder unit, and handle unit) XA75: Approx. 970g XA70: Approx. 960g
WEIGHT (CAMERA ONLY)	
WEIGHT (FULLY EQUIPPED)	XA75: Approx. 1445g XA70: Approx. 1435g (including lens hood, BP-820, mic holder unit, handle unit and one memory card)
OPERATING TEMPERATURE RANGE	Approx. 0 to 40 °C, 85 % (relative humidity) Approx. -5 to 45 °C, 60 % (relative humidity)

## Power Supply / Battery

BATTERY PACK	Canon Battery Pack BP-820 (supplied), BP-828 (optional)
POWER CONSUMPTION (RECORDING)	UHD / (150Mbps / 160Mbps) / 25.00P: XA75: Approx. 5W XA70: Approx. 4.8W
CONTINUOUS RECORDING TIME (APPROX.)	UHD: (150Mbps / 160Mbps) 25.00p XA75: 145 mins (BP-820) / 220 Mins (BP-828) XA70: 150 mins (BP-820) / 230 Mins (BP-828) FHD: (35Mbps / 45Mbps) 50.00p XA75: 135 mins (BP-820) / 210 Mins (BP-828) XA70: 140 mins (BP-820) / 215 Mins (BP-828)

# XA75/XA70

## Feature Packed 4K Filming with Ultimate Portability

When you demand stunning 4K quality and low noise from a large 1.0-inch sensor and advanced features like Dual Pixel CMOS AF plus a wide-range 15x optical zoom lens, but want the most compact package you can for the ultimate in portability, Canon has the answer. The XA75 and XA70 camcorders tick all those boxes, using much of the technology from Canon's flagship camcorders.

- 1.0-Type CMOS Sensor
- 4K 25P XF-AVC up to 160Mbps
- Wide-angle 15x optical zoom
- Streaming capability

## Other Accessories

SUPPLIED	Lens hood with barrier, Mic holder unit, Handle Unit HDU-3, Wireless Controller WL-D89, Lithium battery (CR2025), Compact Power Adapter CA-570, Battery Pack BP-820, AC Cable, Lens Cap (including those not currently for sale)
OPTIONAL	Canon Battery Pack BP-820/BP-828, Canon AC Adapter CA-570 (included with camera), Canon Battery Charger CG-800/CG-800E, Canon HDMI cable HTC-100/HTS-100S, Canon GPS Receiver GP-E2, Canon ND4-L filter 58mm, Canon ND8-L filter 58mm, Canon Remote Controller RC-V100, Canon Interface Cable IFC-300PCU/S / IFC-400PCU, Canon Battery Video Light VL-10L/VL-10LiI, Canon Battery Pack BP-900 series (for VL-10Li/VL-10LiI), Canon Compact Power Adapter CA910/920/930 (charges BP-900 series battery packs),



**Tele-converter TL-U58**  
This tele-converter extends the cameras optical capability by 1.5x to bring distant subjects even closer.



**Remote Controller RC-V100**  
Wired remote control of your camera enables control over virtually all camera functions.



**Wide Attachment WA-U58**  
This wide attachment extends the cameras optical capability by 0.8x enabling better capture of very wide scenes or shooting in confined spaces.



**Battery Pack BP-828**  
An intelligent high capacity (2670mAh) lithium-ion battery, recommended for longer shoots.



**GPS receiver GP-E2**  
The GP-E2 unit offers GPS tagging and logging abilities help you to locate exactly where your images were taken.



**Battery Charger CG-800**  
The CG-800 is an accessory for charging your batteries without your camcorder.



**Battery Pack BP-820**  
An intelligent standard capacity (1780mAh) lithium-ion battery.

XA65/XA60



Benefits

- 8.29MP 1/2.3 inch 4K UHD CMOS sensor
- XF-AVC and MP4 LongGOP recording
- 4K / 25p in 4:2:0 8-bit, to dual SD cards
- Hybrid AF
- 3" touchscreen LCD monitor
- 20x 29.3-601mm optical zoom (35mm equivalent) with 5-axis Optical Image Stabilisation (IS)
- Mini HDMI output
- Professional audio
- Livestreaming in UVC via USB-C

Image Sensor

SENSOR	1/2.3-type CMOS
FILTER	RGB Primary Colour Filter
TOTAL PIXELS	Approx. 21.14MP
EFFECTIVE PIXELS	Approx. 8.29 MP (3840 x 2160)
SUBJECT ILLUMINATION RANGE	Approx. 0.3 lx to 100,000 lx
MINIMUM ILLUMINATION (PAL)	P Mode: Approx. 4.2 lx (shutter speed 1/25 sec with auto slow shutter On) Low Light Mode: Approx. 0.3 lx (shutter speed 1/2 sec.)

Audio

RECORDING AUDIO CONTROL	MPEG-2 AAC-LC (16-bit 2ch) / LPCM (16-bit 4ch) Manual/Auto Independent 2ch Line/Mic/ Mic+48V input; Independent level control per channel (-∞ to +18 dB); Independent audio limiters (2 ch); Input mic trimming 1KHz, -12dB / -18dB / -20dB / Off Auto / On / Off (20dB)
REFERENCE TONE	
MICROPHONE ATTENUATION	Yes
MICROPHONE LEVEL METER	

Shooting Modes

PROGRAM AE	AUTO Mode Manual Mode: P, Tv, Av, M (manual exposure), SCN (Portrait, Sports, Snow, Beach, Sunset, Night, Low Light, Spotlight, Fireworks)
CUSTOM PICTURE MENU	C1: Normal C2: USER 02 C3: USER 03 C4: USER 04 C5: USER 05 C6: USER 06 Gamma / Colour Space: BT.709 Normal / BT.709 Colour Matrix: Neutral / Video Yes (green or white)
INFRARED SHOOTING MODE	Yes, in detachable Handle Unit.
BUILT-IN IR LAMP	Wavelength: 850nm (near-infrared)
LOOK SETTINGS	Standard [Adj]ment: Sharpness, Contrast, Colour Depth)

Lens

ZOOM RATIO	20x Optical
FOCAL LENGTH	35mm equivalent: Approx. 29.3 - 601mm Standard IS/IS Off 10 mm at wide end, 60 cm across entire zooming range
MINIMUM FOCUS DISTANCE	
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 and touchscreen point selection (Magnify and Peaking assist functions), Focus Preset, AUTOFOCUS: Touchscreen AF point selection, Face Detection and Tracking, Touch and Track, Face Only AF, (Instant AF, Medium AF, Normal AF) Hybrid AF, Normal AF Touchscreen, Auto

Monitoring Panel

TYPE	LCD Capacitive touch panel
SIZE	3-inch (7.5 cm, Approx. 460,000 dots)
WAVEFORM MONITOR	No
FOCUS ASSIST	Peaking / Magnify
PEAKING	Selectable Peaking Colour: Red / Blue / Yellow
ZEBRA	70% or 100% reference level
MARKERS	Grid (white / grey) and Level (white / grey)

Viewfinder

SIZE	0.24-inch, approx. 1.56 million dots
CORRECTION LENS	+2.0 to -5 dioptre

Inputs / Outputs

AUDIO INPUT	XLN 3-pin jack (x2) with +48V phantom power, Line and Mic options on detachable handle, 3.5mm microphone input jack (Supply Voltage 2.4V DC), Built-in Mic, 3.5mm stereo mini jack
HEADPHONE OUTPUT	
HDMI OUTPUT	HDMI™ mini connector
USB	Type B, Hi-Speed USB, PTP class supported
SDI OUTPUT	XA65: 3G-SDI with BNC connector XA60: No
TIME CODE	Superimposed on HDMI output signal (Camera Mode only) No
GENLOCK	No
LAN	No
AV TERMINAL	No
DC INPUT	3.4mm Jack
REMOTE CONTROL TERMINAL	2.5mm mini jack

Image Processor

TYPE	Dual DIGIC DV6
COLOUR SAMPLING	YCC 4:2:0
BIT DEPTH	8-Bit

Recording

VIDEO STORAGE	SD / SDHC / SDXC card (2 card slots) Class U3 cards recommended
MEDIA TYPE	
RECORDING TIME (64GB CARD APPROX.)	XF-AVC: 160Mbps: 50 mins / 45Mbps: 185 mins MP4: 150Mbps: 55 mins / 35Mbps: 240 mins / 17Mbps: 495 mins
RECORDING FILE SYSTEM	FAT32/exFAT
INTERNAL RECORDING FORMAT (PAL)	XF-AVC: 3840x2160 (160 Mbps) / 1920x1080 (45 Mbps)* MP4: 3840x2160 (150 Mbps) / 1920x1080 (35 / 17 Mbps)
EXTERNAL RECORDING	
FORMAT (PAL)	HDMI output (Camera mode): UHD recording mode: 1920x1080 25.00P YCC4:2:2 8-bit Full HD recording mode: 1920x1080 50.00P/50.00i/25.00P 1280x720 50.00P YCC4:2:2 10-bit HDMI (50.00i)
EXTERNAL MONITORING	
RECORDING FRAME RATE (PAL)	25.00P (UHD), 50.00P/50.00i/25.00P (Full HD)
SLOW/FAST MOTION (PAL)	3840x2160 / 25.00P: x2, x4, x10, x20, x60, x120, x600, x1200 1920x1080 / 50.00P: x2, x4, x10, x20, x60, x120, x600, x1200 1920x1080 / 25.00P: x0.5
PRE RECORDING FUNCTION	Yes, 3 seconds
STILL PHOTOS	JPEG up to 3840x2160 (Still image resolution is dependent on the video resolution) SD Card
PHOTO STORAGE MEDIA	

Exposure

EXPOSURE METERING	Centre-weighted average or segment evaluative (determined by shooting mode) No metering: Fireworks mode, Fixed exposure (1/50 sec.)
EXPOSURE COMPENSATION	Highlight AE, Exposure lock, Auto backlight compensation, Exposure compensation amount shown as ±3 when locked or ±2 in AUTO (±8 increments). Yes
EXPOSURE LOCK	Auto / Manual
AUTO GAIN CONTROL SETTING	
AUTO GAIN CONTROL LIMIT	0 - 24dB (dB increments)

White Balance

AUTO PRESET	Yes
MANUAL SETTING	Daylight (Approx. 5,600K), Tungsten (Approx. 3,200K) Colour Temperature range: 2,000-15,000K Default value for Set 1 and Set 2: 5,600K

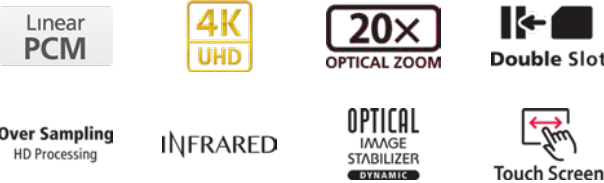
Shutter Speed

CONTROL MODES	Auto, P, Tv, Manual
SHUTTER SPEED (PAL)	1/6 - 1/2000 sec (1/2 - 1/500 sec in Low Light mode)
SLOW SHUTTER (SLS)	50.00P: Auto slow shutter On: 1/25 to 1/500 sec. Auto slow shutter Off: 1/50 to 1/500 sec. 25.00P: Auto slow shutter On: 1/12.5* to 1/500 sec. (*Display is 1/12) Auto slow shutter Off: 1/25 to 1/500 sec.
CLEAR SCAN	No

XA65/XA60

4K Resolution with High Magnification


Small enough to fit into the palm of your hand but with an astounding lens range to zoom in to the 35mm equivalent of a 601mm lens (UHD recording), the XA65/XA60 is a surprisingly powerful and capable camcorder. With sharp and detailed UHD recording in 4K, the XA65/XA60 features a 1/2.3-inch, 8.9MP CMOS sensor that has high sensitivity. The XA65/XA60 captures clear, sharp images with incredible detail even in low light.



- 4K 25P XF-AVC up to 160Mbps
- Powerful 20x optical zoom
- 5-Axis Image Stabilisation
- Streaming capability


Other Accessories

SUPPLIED	Lens cap, Lens hood with barrier, Mic holder unit (with screws), Lens hood with barrier, Mic holder unit, Handle Unit HDU-1, Battery Pack BP-820, Compact Power Adapter CA-570, AC Cable, Ferrite core, Lens Cap
OPTIONAL	(including those not currently for sale) Canon Battery Pack BP-820/BP-828, Canon Compact Power Adapter CA-570 (included with camera), Canon Battery Charger CG-800/CG-800, Canon HDMI cable HTC-100/HTC-100S, Canon Tele Converter TL-H58, Canon Wide Attachment WA-H58, Canon Soft Carrying Case SC-1000/SC-2000, Canon Shoulder Strap SS-600/SS-650, Wrist Strap WS-20, Canon PROTECT Filter 58mm, Canon ND4-L Filter 58mm, Canon ND8-L Filter 58mm, Canon GPS Receiver GP-E2, Canon Remote Controller RC-V100, Canon Battery Video Light VL-10Li/VL-10LiLi, Canon Interface Cable IFC-300PC/US / IFC-400PCU, Canon Battery Pack BP-900 series (for VL-10Li/VL-10LiLi), Canon Compact Power Adapter CA-910/920/930 (for charging BP-900 series)




**Wide Attachment WA-H58**

This wide attachment extends the cameras optical capability by 0.75x enabling better capture of very wide scenes or shooting in confined spaces.




**Tele-converter TL-H58**

This tele-converter extends the cameras optical capability by 1.5x to bring distant subjects even closer.




**Battery Pack BP-820**

An intelligent standard capacity (1780mAh) lithium-ion battery.




**Video Light VL-10Li II**

This small, light and powerful video light is for indoor and outdoor use.




**Remote Controller RC-V100**

Wired remote control of your camera enables control over virtually all camera functions.




**GPS receiver GP-E2**

The GP-E2 unit offers GPS tagging and logging abilities help you to locate exactly where your images were taken.



**Battery Charger CG-800**

The CG-800 is an accessory for charging your batteries without your camcorder.



**Battery Pack BP-828**

An intelligent high capacity (2670mAh) lithium-ion battery, recommended for longer shoots.



PROFESSIONAL CAMCORDER  
COMPARISON CHART



	XF605	XA75/XA70	XA65/XA60
SENSOR	1.0-inch CMOS	1.0-inch CMOS	1/2.3 Inch CMOS
TOTAL PIXELS	13.4 MP	13.4 MP	21.14 MP
EFFECTIVE PIXELS	8.29 MP	8.29 MP	8.29 MP
ZOOM RATIO	15x Optical, 30x Advanced Zoom Mode (FHD Only)	15x optical	20x Optical
MINIMUM FOCAL DISTANCE	10 mm at wide end, 60 cm across entire zooming range	10 mm at wide end, 60 cm across entire zooming range	10 mm at wide end, 60 cm across entire zooming range
ND FILTER	3 densities: turret switched, motor-driven. ND 1/4, ND 1/16, and ND 1/64	3 densities: turret switched, motor-driven. ND 1/4, ND 1/16, and ND 1/64	Built-in gradation filter (Auto or Off)
APERTURE	9-blade Iris, Max f/2.8 - 4.5	9 blades, f/2.8 - f/11	8 blades, f/1.8 - 2.8
IMAGE STABILISATION	Optical system (lens shift) + electronic stabilization Dynamic, Standard, Powered, Off	Optical system (lens shift) + electronic stabilization Dynamic, Standard, Powered, Off	Optical system (lens shift) + electronic stabilization Dynamic, Standard, Powered, Off
DIGITAL ZOOM / TELECONVERTER	300 X Digital Zoom, 1.5/3.0/6.0 X Digital Teleconverter	300x Digital Zoom, 2x Digital Teleconverter	400x Digital Zoom, 2x Digital Teleconverter
IMAGE PROCESSOR	DIGIC DV7	DIGIC DV6	DIGIC DV 6
RECORDING MEDIA	SD / SDHC / SDXC card (2 card slots)	SD / SDHC / SDXC card (2 card slots)	SD / SDHC / SDXC card (2 card slots)
RECORDING FRAME RATE (PAL)	XF-AVC (3840 x 2160) 50.00P / 25.00P (1920x1080) 50.00P / 50.00i / 25.00 MP4 (HEVC / H.264: (3840 x 2160/1920x1080) 50.00P 25.00P MP4 (HEVC) (3840 x 2160/1920x1080) 50.00P 25.00P (1280 x 720) 50.00P MP4 (H.264) (3840 x 2160/1920x1080) 50.00P / 29.97P / 25.00P (1280 x 720) 50.00P	MP4: 25.00P (UHD), 50.00P/25.00P (Full HD) XF-AVC: 25.00P (UHD), 50.00P/50.00i/25.00P (Full HD)	25.00P (UHD), 50.00P/50.00i/25.00P (Full HD)
SLOW / FAST MOTION	Up to 120P (FHD, 4:2:2/8-bit or 10-bit) including in 50.00Hz mode. Simultaneous Audio Recording	3840 x 2160 / 25.00P: x2, x4, x10, x20, x60, x120, x600, x1200 1920 x 1080 / 50.00P: x2, x4, x10, x20, x60, x120, x600, x1200 1920 x 1080 / 25.00P: x0.5	3840x2160 / 25.00P: x2, x4, x10, x20, x60, x120, x600, x1200 1920x1080 / 50.00P: x2, x4, x10, x20, x60, x120, x600, x1200 1920x1080 / 25.00P: x0.5
AUDIO RECORDING	Linear PCM: 24-bit / 48 kHz / 4 channels (4.5 Mbps). EBU/ AES3 Standard; 48kHz/24-bit/2-ch	MP4: MPEG-2 AAC-LC (16-bit 2ch) / LPCM (16-bit 4ch) XF-AVC: LPCM (24-bit 4ch)	MPEG-2 AAC-LC (16-bit 2ch) / LPCM 16-bit 4ch or 2ch (48 kHz) Linear PCM (16-bit 4ch)
LCD PANEL	LCD Capacitive touch panel, 3.5-inch (8.9 cm, 2.76 million dots)	Capacitive LCD touch panel, 3.0-inch (7.5 cm, approx. 460,000 dots)	Capacitive LCD touch panel, 3.0-inch (7.5 cm, approx. 460,000 dots)
EVF	Wide Screen Organic EL display, 0.36-inch approx. 1.77 million dots	0.24-inch, approx. 1.56 million dots	0.24-inch, approx. 1.56 million dots
HDMI	Yes	Yes, mini-connector	Yes, mini-connector
USB	x1 Type-A (Host), x1 Type-C (Device)	Type-C	Type-C
HD / SD-SDI	12G-SDI with BNC connector	XA75: 3G-SDI with BNC connector XA70: No	XA65: 3G-SDI with BNC connector XA60: No

BUILD THE TOOL  
THAT YOU NEED

Example accessories for XF605: Build the film-making tool you need with versatility thanks to its large range of compatible accessories, including lenses, battery packs, mic holders, and GPS receivers.

**Wide Attachment WA-U58**

This wide attachment extends the cameras optical capability by 0.8x enabling better capture of very wide scenes or shooting in confined spaces.

**Tele-converter TL-U58**

This tele-converter extends the cameras optical capability by 1.5x to bring distant subjects even closer.

**Compact Power Adapter CA-CP200L**

Mains power adapter for the Canon XF605.

**Battery Charger CG-A20**

The CG-A20 is an accessory for charging your batteries without your camcorder.

**GPS receiver GP-E2**

The GP-E2 unit offers GPS tagging and logging abilities help you to locate exactly where your images were taken.

**Remote Controller RC-V100**

Wired remote control of your camera enables control over virtually all camera functions.

**RC-IP100 Controller**

Pan, tilt and zoom effortlessly with this high-quality controller featuring a multi-function joystick and intuitive touchscreen for easy control of up to 100 cameras over IP.

**Battery Pack BP-A60**

Canon BP-A60 (BPA60) Battery Pack (3100mAh).

**Battery Pack BP-A30**

Canon BP-A30 (BPA30) Battery Pack (6200mAh).





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Canon Europe Limited  
4 Roundwood Avenue  
Stockley Park  
Uxbridge  
UB11 1AF

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