

# XF605

## A PROFESSIONAL BROADCAST CAMCORDER, BUILT FOR THE FIELD

The XF605 is a powerful new camcorder designed for ENG applications as well as a variety of live and offline productions, including sports, events, documentaries, streaming, and more.



- 1.0-Type CMOS Sensor & DIGIC DV7 Processor
- 4K UHD 60P/50P 4:2:2/10-bit recording (XF-AVC or MP4)
- Canon Log 3, HDR (PQ/HLG)
- High Frame Rate recording up to 120fps (FHD)
- 15x Optical Zoom L-Series lens (30x Advanced Zoom in FHD)
- Enhanced Dual Pixel CMOS AF with Eye AF & EOS iTR AF X (Intelligent Head Tracking)
- Dual SD card slots supporting simultaneous recording, multiple formats & Proxies
- Professional connectivity Inc. 12G-SDI, HDMI, XLR, Wi-Fi, Ethernet, USB-C, and more
- Multi-Function Accessory Shoe

4K  
UHD

1.0  
type  
CMOS

HDR  
High Dynamic Range

15x  
OPTICAL ZOOM

Dual Pixel  
CMOS AF

HFR  
High Frame Rate

### PRODUCT RANGE



Canon XF705



Canon XF605



Canon XF405/XF400

Canon XF705  
**Canon XF605**  
Canon XF405/XF400  
Canon XA55/XA50  
Canon XA45/XA40

**Canon**

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# TECHNICAL SPECIFICATIONS

# XF605

<b>CAMERA</b>			
<b>IMAGE SENSOR</b>			
Sensor	1.0 Inch-type CMOS		
Filter	RGB Primary Colour Filter		
Total pixels	Approx. 13.4 MP		
Effective pixels	Approx. 8.29 MP (3840 x 2160)		
Image Processor	DIGIC DV7		
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. 1.3 lux (1/25 second shutter speed)		
<b>LENS</b>			
Zoom ratio	1.5x 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; turret switched, motor-driven. ND 1/4, ND 1/16, 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.		
Zoom speed	Variable or Constant speed Fast/Normal/Slow, 16 speed level settings		
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. (Continuous AF, AF-Boosted MF, AF Speed, AF Response, AF Frame size)		
Focus System	Dual Pixel CMOS AF, Contrast AF, Eye AF, EOS iTR AF X		
Iris control	Touchscreen, Auto, Lens ring		
Digital zoom/Teleconverter	300x Digital Zoom, Digital Teleconverter [x1.5/x3/x6. Not available when optical teleconverter used]		
<b>IMAGE PROCESSOR</b>			
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.		
Bit depth	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		
<b>RECORDING</b>			
Video storage media	SD/SDHC/SDXC card (2 card slots)		
Type	Class U3 V90 cards recommended		
Recording time (128GB Card, approx.)	XF-AVC: 410Mbps, 39 mins, 310Mbps, 51 mins, 260Mbps, 100 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		
Recording file system	FAT32/exFAT		
Internal recording format (PAL)	XF-AVC (MXF) UHD: ALL-I/Long GOP, Full HD/Proxy Files: Long GOP MP4: H.265 UHD, Full HD		
Simultaneous Recording		Yes, Simultaneous recording, relay recording. Different recording options possible on each memory card	
Recording frame rate (PAL)		UHD XF-AVC 422 10bit 3840 x 2160 (160 Mbps): 59.94P / 29.97P / 23.98P/50.00P / 25.00P MP4 (HEVC/H.264) 422 10bit 3840 x 2160: 59.94P / 29.97P / 23.98P/50.00P / 25.00P Full HD, XF-AVC 422 10bit: 1920 x 1080 (45 Mbps) 59.94P / 59.94i / 29.97P / 23.98P/50.00P / 50.00i / 25.00P 120P, MP4 (HEVC/H.264) 422 10bit, 1280 x 720 59.94P / 29.97P / 23.98P/50.00P / 25.00P	
External recording output, 12G-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/ 29.97PsF/25.00PsF 59.94i/50.00i 1280 x 720: 59.94p/50.00p 720 x 480: 59.94i 720 x 576: 50.00i	
External monitoring		Yes, 12G-SDI or HDMI. Simultaneous output available	
High Frame Rate		Yes, Up to 120P (FHD, 4:2:2/8-bit) including in 50.00Hz mode, Simultaneous Audio Recording	
Pre Record function		Yes, 3 seconds	
Special Recording Functions		Frame Recording, Interval Recording	
Still photos		JPEG up to 3840x2160 (Still image resolution is dependent on the video resolution)	
Photo storage media		SD Card (Slot B)	
<b>SHOOTING FUNCTIONS</b>			
<b>EXPOSURE</b>			
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).	
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	
<b>SHUTTER SPEED</b>			
Control modes		Auto, P, Tv, Manual	
Shutter Angle Mode		Yes, 360° to 11.25°	
Shutter speed (PAL)		Up to 1/2000 Sec.	
Slow Shutter (SLS, PAL)		50.00i/50.00P: 1/4, 1/8, 1/12, 1/25 sec 25.00P: 1/3, 1/6, 1/12 sec	
Clear (PAL)		Yes, 24.00Hz to 2003.17Hz	
<b>WHITE BALANCE</b>			
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	
<b>SHOOTING MODES</b>			
Exposure Control		AUTO Mode Manual Mode: P, Tv, Av, M (manual exposure)	
Custom Picture Menu		CP Files: C1: BT.709 Normal C2: BT.709 Wide DR C3: BT.709 Standard C4: Canon Log 3 C5: PQ (BT.2020) C6: HLG (BT.2020) C7: EOS Standard C8: EOS Neutral C9 - C20: User Defined	

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# TECHNICAL SPECIFICATIONS

# XF605

<b>Look File</b>	User defined .Cube format Look File. Created on third-party software	<b>MISCELLANEOUS</b>	Yes
<b>Colour Matrix Settings</b>	Neutral, Video, Production Camera	<b>Tally lamp</b>	Yes. SMPTE or EBU, with 1KHz Tone
<b>Infrared shooting mode</b>	Yes	<b>Colour Bars (PAL)</b>	Yes, Accessory and Cold shoe
<b>Built-in IR lamp</b>	Yes, in Handle Unit. Wavelength: 850nm (near-Infrared)	<b>Accessory shoe</b>	Total of 11 Assignable Buttons with over 100 Assignable Functions
<b>STREAMING, WI-FI &amp; GPS SPECIFICATIONS</b>		<b>Assignable buttons</b>	Av / Tv / M / AGC Limit / Exposure Compensation / Off
<b>IP Streaming Protocols Supported</b>	UDP, RTP, RTP+FEC	<b>Custom dial</b>	
<b>News Metadata</b>	Yes, compliant with NewsML-G2 standard	<b>TIME CODE</b>	
<b>Browser Remote Control</b>	Yes	<b>Count up system</b>	Regen / Rec Run / Free Run / Preset (Non-Drop Frame)
<b>Wi-Fi</b>	Yes	<b>Time Code out</b>	Yes, Via BNC or HDMI
<b>Supported Wi-Fi</b>	IEEE802.2.4GHz/5GHz 11a/b/g/n/ac (5GHz may not be available in all regions)	<b>ACCESSORIES</b>	
<b>GPS Information (Optional Accessory)</b>	Location (Latitude/Longitude/Altitude), Coordinated Universal Time (UTC), Satellite reception. (requires the optional GPS Receiver GP-E2)	<b>Supplied</b>	Lens hood with barrier, Lens Cap, Mic holder unit, Eye Cup, AC Cable, Compact Power Adapter (CA-200L) Battery Charger (CG-A20), Battery Pack BP-A30, Canon Battery Pack BP-A30/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-150AB III.
<b>AUDIO</b>		<b>Optional (Includes items not currently on sale)</b>	
<b>Recording</b>	MP4: MPEG-2 AAC-LC (16-bit 2ch) / LPCM (16-bit 4ch) XF-AVC: LPCM (24-bit 4ch)	<b>BATTERY</b>	
<b>Audio control</b>	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	<b>Battery Pack</b>	Canon Battery Pack BP-A30 (supplied), BP-A60 (optional) Battery: 14.5V, DC in: 24V Approx 13.6W (50.00P UHD, Long GoP 260Mbps) Approx 12.1W (25.00P UHD Intra 410 Mbps)
<b>Reference tone</b>	1KHz, -12dB / -18dB / -20dB / Off	<b>Power Requirement</b>	Approx 185 mins. (50.00P UHD, Long GoP 260Mbps)
<b>Microphone attenuation</b>	On/Off (20dB)	<b>Power Consumption (recording)</b>	Approx 210 mins. (25.00P UHD Intra 410 Mbps)
<b>Microphone level meter</b>	Yes	<b>Continuous Recording Time (approx.)</b>	
<b>SYSTEM</b>		<b>SIZE AND WEIGHT</b>	
<b>MONITORING PANEL</b>		<b>Dimensions</b>	Approx. 1.68 x 173 x 333 mm Body Only Approx. 200 x 219 x 385 mm Including lens hood, eye cup, microphone holder unit
<b>Type</b>	LCD Electrostatic Touch Panel.	<b>Weight (camera only)</b>	2010g (Approx.)
<b>Size</b>	3.45-inch type Approx. 2.76 million dots	<b>Weight (fully equipped)</b>	2460g (Approx.)
<b>Waveform Monitor</b>	Yes	<b>Operating temperature range</b>	Approx. 0 to 40 °C, 85 % (relative humidity) Approx. -5 to 45 °C, 60 % (relative humidity)
<b>Focus Assist</b>	Dual Pixel Focus Guide* / Peaking / Magnify	<b>Disclaimers</b>	All specifications are subject to change without notice
<b>Peaking</b>	Selectable Peaking Colour: Red / Blue / Yellow/White		
<b>False Colour Display</b>	Yes, also via EVF, SDI Out and HDMI output		
<b>Zebra</b>	70% or 100% reference level		
<b>Markers</b>	Center, horizontal, grid, aspect, safety zone, and user marker. Each item can be displayed in yellow, blue, green, red, black, gray, or white.		
<b>VIEWFINDER</b>			
<b>Size</b>	0.36-inch type, approx. 1.77 million dots		
<b>EVF Auto -off</b>	Yes, function enabled via assignable button		
<b>Correction lens</b>	+2.0 to -5.5 dioptre		
<b>INPUTS/OUTPUTS</b>			
<b>Audio input</b>	XLR 3-pin jack (x2) with 48V phantom power, Line and Mic. Additional inputs via third-party accessory attached to shoe. 3.5mm microphone input jack (Supply Voltage 2.4V DC), Built-in Mic		
<b>Headphone output</b>	3.5mm stereo mini jack		
<b>Speaker</b>	Yes, built-in		
<b>HDMI output</b>	HDMI™ Type A		
<b>USB</b>	1 x Type A. Type A power output 5V/900mA 1 x Type C. Type C compliant with UVC		
<b>SDI output</b>	12G-SDI, BNC connector		
<b>Time code</b>	Yes, BNC connector		
<b>Genlock</b>	Yes		
<b>LAN</b>	Yes		
<b>DC input</b>	3.4mm jack		
<b>Remote Control Terminal</b>	Type A (2.5mm jack), Type B (8-pin connector, RS422-type)		

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canon.com  
Canon Europe  
canon-europe.com  
English edition  
Canon Europa NV 2021

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Sales Start Date: October 2021 (TBD)



## PRODUCT DETAILS:

Product Name	Mercury Code	EAN Code	Recommended Retail Price
XF605 (EU)	5076C003AA	4549292184822	<Please fill in RRP>
XF605 (EU18)	5076C007AA	8714574669106	<Please fill in RRP>

## OPTIONAL ACCESSORIES

Product Name	Mercury Code	EAN Code	Recommended Retail Price
BP-A30	0868C002AA	4549292047493	<Please fill in RRP>
BP-A60	0870C002AA	4549292047523	<Please fill in RRP>
CG-A10	0872C003AA	4549292047585	<Please fill in RRP>
CG-A20	2416C003AA	4549292100310	<Please fill in RRP>
CA-CP200 L	3100C003AA	4549292121636	<Please fill in RRP>
TL-U58	2493C001AA	4549292105391	<Please fill in RRP>
WA-U58	2494C001AA	4549292105407	<Please fill in RRP>
RC-V100	9660B001AB	4549292014013	<Please fill in RRP>
RC-IP100	5231C002AA	4549292193442	<Please fill in RRP>
IFC-100U	3224C001AA	4549292124200	<Please fill in RRP>
IFC-40AB III	3226C001AA	4549292124248	<Please fill in RRP>
IFC-150AB III	3227C001AA	4549292124262	<Please fill in RRP>
GP-E2	6363B001AA	4960999848358	<Please fill in RRP>
FILTER PROTECT 58mm	2595A001AA	4960999430942	<Please fill in RRP>
FILTER ND4-L 58mm	2596A001AA	4960999430652	<Please fill in RRP>
FILTER ND8-L 58mm	2597A001AA	4960999430669	<Please fill in RRP>

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## MEASUREMENT / LOGISTIC INFORMATION:

Product Name	Mercury Code	Pack type	Pack description	Quantity per pack	Length (cm)	Width (cm)	Height (cm)	Gross Weight (kg)
XF605 (EU) XF605 (EU18)	5076C003AA 5076C007AA	EA	Each	1	41.8	34.9	27.3	4.6
		CT	Carton	1	43.5	36.6	29.75	5.2
		EP	Euro Pallet	20	120	80	132	119
			Layers per Pallet	4				
			Cartons per Layer	5				
			Products per layer	5				

## What's in the box?

- XF605 BODY EU
- FINDER CAP PACKING
- MIC HOLDER UNIT
- HOOD UNIT
- SCREW BINDING HEAD, M4X20, BZ3
- EYECUP ADAPTER
- AC CABLE (EU)
- Battery Pack BP-A30 (OTH)
- Battery Charger CG-A20
- Compact Power Adapter CA-CP200 L

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