

XA75 / XA70

SHOOT, RECORD, STREAM

A 1.0-inch Type CMOS 4K camcorder with 15x optical zoom and 5-axis stabilisation, Dual Pixel CMOS AF, 3G-SDI¹ plus USB-C output for UVC Livestreaming².



- Compact professional 4K UHD camcorder
- 4K 15x optical zoom lens
- Dual Pixel CMOS AF with face detection
- XF-AVC and MP4 for flexible recording
- Professional inputs and outputs
- UVC streaming via USB-C



Dual Pixel CMOS AF

Over Sampling
HD Processing

OPTICAL
IMAGE
STABILIZER
DYNAMIC

INFRARED

PRODUCT RANGE



Canon XF605



Canon XA75/XA70



Canon XA65/XA60

Canon XF605
Canon XA75/XA70
Canon XA65/XA60
Canon XA55/XA50
Canon XA45/XA40
Canon XA15/XA11

Canon

Live for the story_

¹only for XA75

²Audio output through USB is not supported

TECHNICAL SPECIFICATIONS

XA75 / XA70

CAMERA

IMAGE SENSOR

Sensor
1 inch-type CMOS Sensor
Filter
RGB Primary Colour Filter
Total pixels
Approx. 13.4MP
Effective pixels
Approx. 8.29 MP (3840 x 2160)
Subject illumination range
Approx. 0.1 lx to 100,000 lx
Minimum illumination (PAL)
Approx. 0.1 lx: Low Light (shooting mode), shutter speed 1/2 sec.
Approx. 1.4 lx: In P (Program AE) mode, 50.00P, shutter speed 1/25 sec. auto slow shutter On

IMAGE PROCESSOR

Type
DIGIC DV 6
Colour Sampling
YCC 4:2:0 8-bit

LENS

Zoom ratio
15x optical
Focal length (35mm equivalent)
Approx. 25.5 - 382.5mm Standard IS/IS Off
Minimum focus distance
1 cm at wide end, 60 cm across entire zooming range
Aperture
f/2.8 - 4.5
Aperture blades
9 blades
Filter diameter
58mm
Image stabilization system
Optical system (lens shift) + electronic stabilization Dynamic, Standard, Powered IS, 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; Touch Screen or Remote Controller
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)
Iris control
Touchscreen, Auto
Digital zoom/Teleconverter
20x Digital zoom (300x with optical zoom) and 40x digital zoom (600x with optical zoom) are available. Digital zoom not available in AUTO mode.
2x Digital Teleconverter (Not available when using Digital Zoom)

FOCUS

Focus System
Dual Pixel CMOS AF, detection range 80% vertical/80% horizontal of field of view
Contrast AF.
AF Mode
Continuous, AF-Boosted MF
Face Detection and Tracking, Face Only AF.
Manual Focus Assist
Dual Pixel Focus Guide, Peaking, Magnification
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. Face Frame displays tracked subject

RECORDING

Video storage media
SD/SDHC/SDXC card (2 card slots)
Type
U3 Class recommended for all recording conditions
*UHS-II not supported.
Recording time (64GB Card, approx.)
MP4: 150Mbps: 55 mins / 35Mbps: 240 mins / 17Mbps: 495 mins
XF-AVC: 160Mbps: 50 mins/45 Mbps: 185 mins
Recording file system
FAT32/exFAT
Internal recording format (PAL)
XF-AVC:
3840 x 2160 / 25.00P (160 Mbps)
1920 x 1080 / 50.00P, 50.00i, 25.00P (45 Mbps)
MP4:
3840 x 2160 / 25.00P (150 Mbps)
1920 x 1080 / 50.00P, 25.00P (35, 17 Mbps)

External output (PAL)

HDMI output (When Shooting):
UHD recording mode:
1920 x 1080 / 25.00P, 50.00P (for Slow&Fast), 50.00i (PsF mode); 1280 x 720 / 50.00P YCC 4:2:2 8-bit
Full HD recording mode:
1920 x 1080 50.00P/25.00P/50i; 1280x720 50.00P YCC4:2:2 10-bit

SDI output (When Shooting):
UHD recording mode:
1920 x 1080 / 25.00P, 50.00P (for Slow&Fast), 50.00i (PsF mode); 1280 x 720 / 50.00P YCC 4:2:2 8-bit
Full HD recording mode:
1920 x 1080 50.00P/25.00P/50i; 1280x720 50.00P YCC4:2:2 10-bit

Time Code

Slow/Fast motion (PAL)
Rec Run / Free Run
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

Pre Recording function

Still photos
Yes, 3 seconds
JPEG up to 3840x2160
(Still image resolution is dependent on the video resolution)
SD Card

Photo storage media

SHOOTING FUNCTIONS

Shooting Modes

AUTO mode
M (Manual) mode
P (Program AE), Tv (shutter-priority AE), Av (aperture-priority AE), M (manual exposure), SCN (Portrait, Sports, Night Scene, Snow, Beach, Sunset, Low Light, Spotlight, Fireworks)
IR mode

Custom Picture

C1: Normal (BT.709 Normal / BT.709)
C2: Wide DR (BT.709 Wide DR / BT.709)
C3: LOG3 (Canon Log 3 / BT.709)
C4: EOS Std. (EOS Standard / BT.709)
C5 to C6: USER05 to USER06 (same as C1)

"Looks" setting

Standard
Neutral
Wide DR
Monochrome
Yes

Infrared shooting mode

EXPOSURE

Exposure metering
Center-weighted average metering
AUTO, P, Av, Tv, Portrait, Sports, Low Light and IR modes
Segment evaluative metering
Night Scene, Snow, Beach, Sunset, Spotlight modes
No metering in Fireworks mode: Exposure constant
Exposure compensation
Highlight AE, Normal, Exposure lock, Auto backlight compensation.

Exposure Lock

Auto Gain Control setting

Auto Gain Control limit

Yes.
Auto / Manual
0 - 38dB (1dB increments)
Wide DR Mode: 9 -38dB (1dB increments)

SHUTTER SPEED

Control modes

Shutter speed

Auto, P, Tv, Manual
1/6 - 1/2000 sec
(1/2 - 1/500 sec in Low Light mode)
Shutter Speed range available dependent on shooting 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.
(*Displays 1/12)
Auto slow shutter Off: 1/25 to 1/500 sec.
No

Clear Scan

No



TECHNICAL SPECIFICATIONS

XA75 / XA70

WHITE BALANCE

Auto	Yes
Presets	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
Built-in IR lamp	Yes, in detachable Handle Unit. Wavelength: 850nm (near-Infrared)
Look settings	Standard (Adjustment: Sharpness, Contrast, Colour Depth)

AUDIO

Recording	MPEG-2 AAC-LC (16-bit 2ch) / LPCM (16-bit 4ch)
Audio control	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
Reference tone	1KHz, -12dB / -18dB / -20dB / Off
Microphone attenuation	On/Off (20dB)
Microphone level meter	Yes

SYSTEM

MONITORING PANEL

Type	Capacitive LCD touch panel
Size	3.5-inch (8.8 cm) on the diagonal, Approx. 2,760,000 dots (1280 x RGB x 720)
Waveform Monitor	No
Focus Assist	Peaking / Magnify
Peaking	Selectable Peaking Colour: Red / Blue / Yellow
Zebra	70% or 100% reference level
Markers	Grid (white/grey), Level (white/grey), 4:3(white/grey)

VIEWFINDER

Size	0.36-inch (0.92 cm on the diagonal), Approx. 1,770,000 dots (1024 x RGB x 576)
Correction lens	+2.0 to -5.5 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
Headphone output	3.5mm stereo mini jack
HDMI output	HDMI™ mini connector. Timecode can be superimposed onto HDMI output
USB	Type-C Hi-Speed USB (USB 2.0) equivalent. Point-to-point class and UVC supported.
SDI output	XA75: 3G-SDI. XA70: No
Time code	No
Genlock	No
LAN	No
AV terminal	No
DC input	USB-C
Remote Control Terminal	2.5mm mini jack

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)

MISCELLANEOUS

Tally lamp	Yes, in detachable Handle Unit
Colour Bars (PAL)	Yes. SMPTE, ARIB or EBU, with 1KHz Tone
Accessory shoe	Yes (cold shoe)
Assignable buttons	5 assignable Buttons
Custom dial	Iris/Shutter/Gain, AGC Limit, Exposure Compensation, Off
Video Output (UVC)	Recording system: Motion JPEG Resolutions: 1920×1080 (when main resolution is not 1280×720) 1280×720 (when main resolution is 1280×720) Frame rates: 25 fps (best effort)

ACCESSORIES

Supplied	Lens hood with barrier, Mic holder unit, Handle Unit HDU-1, Battery Pack BP-820, USB Power Adapter PD-E1, AC Cable
Optional (Includes items not currently on sale)	Canon Battery Pack BP-820/BP-828, Canon Battery Charger CG-800E/CG-800, Canon HDMI cable HTC-100/HTC-100S, Canon Shoulder Strap SS-600/SS-650, Wrist Strap WS-20, Canon PROTECT Filter 58mm, Canon ND4-L Filter 58mm, Canon NDB-L Filter 58mm, Canon GPS Receiver GP-E2, Canon Remote Controller RC-V100, Canon Battery Video Light VL-10Li/VL-10LiII, Canon Battery Pack BP-900 series (for VL-10Li/VL-10LiII), Canon Compact Power Adapter CA-910/920/930 (for charging BP-900 series), Canon Interface Cable IFC-300PCU/S / IFC-400PCU

BATTERY

Battery Pack	Canon Battery Pack BP-820 (supplied), BP-828 (optional)
Power Consumption (recording, approx.)	MP4, 150Mbps/XF-AVC, 1.60Mbps, 25.00P: XA75: 5.2W/XA70: 5.1W
Continuous Recording Time (With supplied BP-820 battery pack, approx.)	XA75: MP4, 150Mbps/XF-AVC, 1.60Mbps, 25.00P: Max 140 mins, typical 75 mins XA70: MP4, 150Mbps/XF-AVC, 1.60Mbps, 25.00P: Max 145 mins, typical 80 mins

SIZE AND WEIGHT

Dimensions	Approx. 110 x 91 x 214 mm (main body only) Approx. 140 x 216 x 265 mm (Including lens hood, BP-820, mic holder unit, and handle unit)
Weight (camera only)	990g
Weight (fully equipped)	1465g
Operating temperature range	0°C to +40°C, 85% relative humidity

Disclaimers

All specifications are subject to change without notice
Specification given for PAL Version

What's in the box?

- XA75 / XA70 EU BODY
- Lens Cap
- Lens hood with lens barrier
- Microphone Holder Unit
- Screws for Microphone Holder Unit
- Handle Unit
- USB Power Adapter PD-E1
- AC Cable
- BP-820 Battery Pack
- Printed Matter Unit
- Packaging

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