XA65/XA60

SHOOT, RECORD, STREAM

A 1/2.3-Type CMOS 4K camcorder with 20x optical zoom and 5-axis stabilisation, Advanced Hybrid AF, 3G-SDI[1] plus USB-C output for UVC Livestreaming[2].

- Compact professional 4K UHD camcorder
- 4K 20x optical zoom lens
- Fast, precise focusing with face detection
- XF-AVC and MP4 for flexible recording
- Professional inputs and outputs
- UVC streaming via USB-C

4K UHD   **20× OPTICAL ZOOM**   **Over Sampling** HD Processing

OPTICAL IMAGE STABILIZER DYNAMIC   **INFRARED**   **Touch Screen**

PRODUCT RANGE

Canon XF605

Canon XA75/XA70

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

Canon XA65/XA60

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[1]only for XA65
[2]Audio output through USB is not supported

TECHNICAL SPECIFICATIONS

XA65 / XA60

CAMERA
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 (Program AE) 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.)

IMAGE PROCESSOR

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

LENS

Zoom ratio	20 x optical
Focal length (35mm equivalent)	Approx. 29.3 - 601mm Standard IS/IS Off
Minimum focus distance	1 cm at wide end, 60 cm across entire zooming range
Aperture	f/1.8 - 2.8 (AV Priority and Manual Modes)
Aperture blades	8 blades
Filter diameter	58mm
Image stabilization system	Optical system (lens shift) + electronic stabilization Dynamic, Standard, Powered IS, Off
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)
Iris control	Touchscreen, Auto
Digital zoom/Teleconverter	20x digital zoom (400x with optical zoom) and 40x digital zoom (800x with optical zoom) are available. Digital zoom not available in AUTO mode. 2x Digital Teleconverter

FOCUS

Focus System	Hybrid AF (High Speed/Medium speed). Uses combination of TTL-video signal detection system and external phase difference metering system. Normal AF. TTL, Contrast based AF
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)

RECORDING

Video storage media	SD/SDHC/SDXC card (2 card slots)
Recording time (64GB Card, approx.)	150Mbps: 55 mins / 35Mbps: 240 mins / 17Mbps: 495 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 ; 1280 x720 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 ; 1280 x720 50.00P YCC4:2:2 10-bit

Time Code	Rec Run / Free Run
Slow/Fast motion (PAL)	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	Yes. 3 seconds
Still photos	JPEG up to 3840x2160 (Still image resolution is dependent on the video resolution)
Photo storage media	SD Card

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 to C6: USER02 to USER06
Colour Matrix	Neutral: accurate colour reproduction Video: Higher contrast colour reproduction
Infrared shooting mode	Yes (green or white)

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	Yes.
Auto Gain Control setting	Auto / Manual
Auto Gain Control limit	0 - 23dB (1dB increments)

SHUTTER SPEED

Control modes	Auto, P, Tv, Manual
Shutter speed	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

WHITE BALANCE

Auto	Yes
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
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

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TECHNICAL SPECIFICATIONS

XA65 / XA60

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
USB	Type-C Hi-Speed USB (USB 2.0) equivalent. Point-to-point class and UVC supported.
SDI output	XA65: 3G-SDI. XA60: 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

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 Tele Converter TL-H58, Canon Wide Attachment WA-H58, 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-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)	UHD: MP4, 150Mbps 25.00P : Approx. 4.5W XF-AVC,160Mbps 25.00P : Approx. 4.5W Full HD: MP4, 35Mbps 50.00P : Approx. 4.6W XF-AVC, 45Mbps 50.00P : Approx. 4.6W
Continuous Recording Time (approx.)	UHD MP4: 150Mbps/25.00p: Max. 165 mins (BP-820), typical 95 mins / Max. 240 Mins, typical 140 mins (Optional BP-828) XF-AVC: 160Mbps/25.00P: Max. 160 mins (BP-820), typical 95 mins. Max. 230 mins, typical 145 mins (Optional BP-828)

SIZE AND WEIGHT

Dimensions	Approx. 109 x 84 x 182 mm (main body only) Approx. 131 x 180 x 231 mm (Including lens hood, BP-820, mic holder unit, and handle unit)
Weight (camera only)	XA65: Approx. 750g, XA60: Approx. 740g
Weight (fully equipped)	XA65: Approx.1140g, XA60: Approx. 1135g
Operating temperature range	0ºC to +40ºC, 85% relative humidity

Disclaimers

All specifications are subject to change without notice

Specification given for PAL Version

What's in the box?

- XA65 / XA60 EU BODY
- Lens Cap
- Lens hood with lens barrier
- Microphone Holder Unit
- Screws for Microphone Holder Unit

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