XA45 / XA40

ULTRA-COMPACT, PROFESSIONAL 4K XA-SERIES CAMCORDER WITH 20X ZOOM LENS

The XA45 / XA40 features a 1/2.3-type CMOS Sensor along with DIGIC DV6 image processor delivering 4K UHD. Full HD image quality is improved thanks to Over Sampling HD Processing. The XA40 features a lens with 20x optical zoom with 29.3mm wide angle.

- Ultra-compact professional 4K UHD camcorder

- 4K 20X optical zoom lens with wide angle

- Infrared recording capability

- Slow and Fast Motion recording

- Lightweight and compact with professional features

- 3G-SDI Interface (XA45 Only)

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

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

PRODUCT RANGE

XA55 / XA50 (4K UHD)

XA45 / XA40 (4K UHD)

XA15 / XA11 (Full HD)

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TECHNICAL SPECIFICATIONS

XA45 / XA40

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 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.)

LENS

Zoom ratio	20x optical
Focal length (35mm equivalent)	Approx. 29.3 - 601mm Standard IS/IS Off
Minimum focus distance	10 mm 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, 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)
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)
Focus System	Hybrid AF, Normal AF
Iris control	Touchscreen, Auto
Digital zoom/Teleconverter	400x Digital Zoom, 2x Digital Teleconverter

IMAGE PROCESSOR

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

RECORDING

Video storage media	SD/SDHC/SDXC card (2 card slots)
Type	Class U3 cards recommended
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: 3840 x 2160 (160Mbps) / 1920 x 1080 (45Mbps) MP4: 3840 x 2160 (150Mbps) / 1920 x 1080 (35/17 Mbps)
External recording output (PAL)	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/50.00i/25.00P; 1280 x 720 50.00P YCC4:2:2 10-bit
External monitoring	HDMI (50.00i)
Recording frame rate (PAL)	25.00P (UHD), 50.00P/50.00i/25.00P (Full HD)
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

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	Auto/On/Off (20dB)
Microphone level meter	Yes

SYSTEM

MONITORING PANEL

Type	Capacitive LCD touch panel
Size	3.0-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	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	Mini-B, Hi-Speed USB, PTP class supported
SDI output	XA45: 3G-SDI with BNC connector XA40: 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

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	Highlight AE, Exposure lock, Auto backlight compensation, Exposure compensation amount shown as ±3 when locked (±12 increments) or ±2 in AUTO (±8 increments).
Exposure Lock	Yes.
Auto Gain Control setting	Auto / Manual
Auto Gain Control limit	0 - 24dB (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

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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)
Infrared shooting mode	Yes (green or white)
Built-in IR lamp	Yes, in detachable Handle Unit. Wavelength: 850nm (near-Infrared)
Look settings	Standard (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)

MISCELLANEOUS

Tally lamp	Yes, in detachable Handle Unit
Colour Bars (PAL)	Yes. SMPTE or EBU, with 1KHz Tone
Accessory shoe	Yes (cold shoe)
Assignable buttons	5 assignable Buttons: Assignable to (AF/MF) / Face Only AF / Magnification / BLC Always On / Powered IS / Auto Acquire WB / WB Priority / IR Light / Pre REC / Review Recording / PHOTO / Monitor Channels / Menu / Off
Custom dial	Tv / Av / M / AGC Limit / Exposure Compensation / Off

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

ACCESSORIES

Supplied	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 (Includes items not currently on sale)	Canon Battery Pack BP-820/BP-828, Canon Compact Power Adapter CA-570 (included with camera), 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 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-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)	XF-AVC: UHD/160Mbps: Approx. 4.1W (25.00P) MP4: UHD/150Mbps: Approx. 4.1W (25.00P)
Continuous Recording Time (approx.)	XF-AVC: UHD/160Mbps/25.00P: 175 mins (BP-820) / 270 mins (BP–828) FHD/45Mbps/50.00P: 170 mins (BP-820) / 265 mins (BP-828) MP4: UHD/150Mbps/25.00p: 175 mins (BP-820) / 270 Mins (BP-828) FHD/35Mbps/50.00p: 175 mins (BP-820) / 270 Mins (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)	XA45: Approx. 740g XA40: Approx. 730g
Weight (fully equipped)	XA:45: Approx. 1130g XA40: Approx. 1120g (Includes lens hood, mic holder unit, handle unit, BP-820, and 1 memory card)
Operating temperature range	-5 to +45ºC, 60% relative humidity 0ºC to +40ºC, 85% relative humidity

Disclaimers

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

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Sales Start Date: February 2021

PRODUCT DETAILS:

Product Name	Mercury Code	EAN Code
XA45	3665C003AA	4549292139624
XA40	3666C003AA	4549292139648

OPTIONAL ACCESSORIES

Accessories	Mercury Code	EAN Code
Battery BP-820	8597B002AA	4960999984490
Battery BP-828	8598B002AA	4960999984520
Battery Charger CG-800	2590B003AA	4960999612188
Battery Charger CG-800E(B)	2590B006AA	4960999610573
Remote Controller RC-V100	9660B001AB	4549292014013
Video Light VL-10Li II	1729B001AA	4960999408316
Shoulder Strap SS-600	3122A001BA	4960999605913
Shoulder Strap SS-650	3123A001BA	4960999605951
Wrist Strap WS-20	3118A001BA	4960999600314
Soft carrying case SC-2000	9389A001AA	4960999209852
HDMI cable HTC-100	2384B001AA	4960999530383
GPS receiver GP-E2	6363B001AA	4960999848358
TL-H58	3573B001AA	4549292105391
WA-H58	8640B001AA	4549292105407

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MEASUREMENT / LOGISTIC INFORMATION:

Product Name	Mercury Code	Pack type	Pack description	Quantity per pack	Length (mm)	Width (mm)	Height (mm)	Gross Weight (kg)
XA45 / XA40	3665C003AA 3666C003AA	EA	Each	1	279	274	218	2.35
		CT	Carton	2	561	292	239	5.33
		EP	Euro Pallet	32	120	80	110.6	95.3
			Layers per Pallet	4				
			Cartons per Layer	4				
			Products per layer	8				

What's in the box?

- XA45 / XA40 body
- Lens cap
- Lens hood with lens barrier
- Microphone Holder Unit
- Screws for Microphone Holder Unit
- Handle Unit HDU-1
- CA-570 Compact Power Adapter
- Ferrite core
- AC Cable EU
- BP-820 Battery Pack
- Printed Materials

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