XA55 / XA50

A 1.0-TYPE CMOS SENSOR COMPACT 4K CAMCORDER WITH DUAL PIXEL CMOS AF AND 15X ZOOM LENS

The highly compact and lightweight XA55 / XA50 offers high quality 4K UHD image quality with beneficial features such as Dual Pixel CMOS AF, Canon 15x optical zoom lens and advanced Full HD image quality driven by utilising outstanding Over Sampling HD Processing.

- 1.0-type CMOS sensor

- High quality 4K 15x optical zoom lens

- Fast and precise Dual Pixel CMOS AF

- XF-AVC and MP4 recording to SD cards

- Compact and lightweight with professional functions

- 3G-SDI interface (XA55 Only)

4K UHD **1.0 type CMOS** **15× OPTICAL ZOOM**

Dual Pixel CMOS AF **OPTICAL IMAGE STABILIZER DYNAMIC** **Over Sampling HD Processing**

PRODUCT RANGE

XA55 / XA50 (4K UHD)

XA40 (4K UHD)

XA15 / XA11 (Full HD)

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TECHNICAL SPECIFICATIONS

XA55 / XA50

CAMERA	
IMAGE SENSOR	
Sensor	1.0-type CMOS
Filter	RGB Primary Colour Filter
Total pixels	Approx. 13.4 MP
Effective pixels per sensor	Approx. 8.29 MP (3840 x2160)
Subject illumination range	Approx. 0.1 lx to 100,000 lx
Minimum illumination (PAL)	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	15x 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
Aperture	f/2.8 - f/11 (AV Priority and Manual Modes)
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 (body rocker only) or Constant speed (body rocker, handle rocker and wireless controller; Fast/Normal/Slow, 16 speed level settings in each)
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
Iris control	Touchscreen, Auto
Digital zoom/Teleconverter	300x Digital Zoom, 2x Digital Teleconverter
IMAGE PROCESSOR	
Type	DIGIC DV6
Dynamic range	800% in Wide DR mode
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.)	MP4: 150Mbps: 55 mins / 35Mbps: 220 mins XF-AVC: 160 Mbps: 50 mins / 45 Mbps: 185 mins
Recording file system	FAT32/exFAT
Internal recording format (PAL)	XF-AVC: 3840 x 2160 (160Mbps) / 1920 x1080 (45 Mbps) MP4: 3840 x 2160 (150Mbps) / 1920 x 1080 (35/17 Mbps)
External recording output (PAL)	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 x720 50.00P YCC4:2:2 10-bit * SDI output with XA55 only
External monitoring	SDI* / HDMI (50.00i) * SDI output with XA55 only

Recording frame rate (PAL)	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)	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	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
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	3.0-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
Headphone output	3.5mm stereo mini jack
HDMI output	HDMI™ mini connector
USB	Min-B, Hi-Speed USB, PTP class supported
SDI output	XA55: 3G-SDI with BNC connector XA50: 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

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TECHNICAL SPECIFICATIONS

XA55 / *XA50*

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 or ±2 in AUTO (±8 increments).
Exposure Lock	Yes.
Auto Gain Control setting	Auto / Manual
Auto Gain Control limit	Wide DR Mode selected: 9 - 38dB (1 dB increments) Wide DR Mode Off: 0 -38 dB (1 dB increments)

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

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

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, 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)

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 / Focus Guide / BLC Always On / Powered IS / Auto Acquire WB / WB Priority / IR Light / Pre REC / Review Recording / PHOTO / Monitor Channel / Menu / Off
Custom dial	Av / Tv / 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-3, Wireless Controller WL-D89, Lithium battery (CR2025), Compact Power Adapter CA-570, Battery Pack BP-820, AC Cable, Lens Cap
Optional **(Includes items not currently on sale)**	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 Wireless Controller WL-D89, Canon Tele Converter TL-U58, Canon Wide Attachment WA-U58, Canon Soft Carrying Case SC-1000/SC-2000, Canon Wrist Strap WS-20, Canon Shoulder Strap SS-600/SS-650, 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 CA910/920/930 (charges BP-900 series battery packs), Canon Car Battery Adapter CB-910/920 (for charging the 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/(150Mbps/160Mbps)/25.00P: XA55: Approx. 5W XA50: Approx. 4.8W
Continuous Recording Time (approx.)	UHD/(150Mbps/160Mbps)/25.00p: XA55: 145 mins (BP-820) / 220 Mins (BP-828) XA50: 150 mins (BP-820) / 230 Mins (BP-828) FHD/(35Mbps/45Mbps)/50.00p: XA55: 135 mins (BP-820) / 210 Mins (BP-828) XA50: 140 mins (BP-820) / 215 Mins (BP-828)

SIZE AND WEIGHT

Dimensions	Approx. 109 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)	XA55: Approx. 970g XA50: Approx. 960g
Weight (fully equipped)	XA55: Approx. 1445g XA50: 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)

Footnotes

[1] All specifications are subject to change without notice

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Sales Start Date: June 2019

PRODUCT DETAILS:

Product Name	Mercury Code	EAN Code
XA55	3668C003AA	4549292139709
XA50	3669C003AA	4549292139723

CONSUMABLES:

Product Name	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
Tele-converter TL-U58	2493C001AA	4549292105391
Wide attachment WA-U58	2494C001AA	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)
XA55 / XA50	3668C003AA 3669C003AA	EA	Each	1	360	301	269	3.55
		CT	Carton	1	615	373	290	4.42
		EP	Euro Pallet	9	120	80	102	49.8

What's in the box?

- XA55 / XA50 EU BODY
- Lens cap
- Lens hood with lens barrier
- Microphone Holder Unit
- Screws for Microphone Holder Unit
- Handle Unit

- WL-D89 Wireless Controller
- Lithium Battery (For WL) CR2025
- CA-570 Compact Power Adapter
- Ferrite core
- AC Cable EU
- BP-820 Battery Pack

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