

# 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)



**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)**

**Canon**

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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 x 2160)
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	1.5x 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 x 1080 (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 x 720 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)

### Slow/Fast motion (PAL)

### Pre Recording function

### Still photos

### Photo storage media

### AUDIO

### Recording

### Audio control

### Reference tone

### Microphone attenuation

### Microphone level meter

### SYSTEM

### MONITORING PANEL

### Type

### Size

### Waveform Monitor

### Focus Assist

### Peaking

### Zebra

### Markers

### VIEWFINDER

### Size

### Correction lens

### INPUTS/OUTPUTS

### Audio input

### Headphone output

### HDMI output

### USB

### SDI output

### Time code

### Genlock

### LAN

### AV terminal

### DC input

### Remote Control Terminal

MP4: 25.00P (UHD), 50.00P/25.00P (Full HD) XF-AVC: 25.00P (UHD), 50.00P/50.00i/25.00P (Full HD) 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 Yes, 3 seconds
JPEG up to 3840x2160 (Still image resolution is dependent on the video resolution)
SD Card

MP4: MPEG-2 AAC-LC (16-bit 2ch) / LPCM (16-bit 4ch) XF-AVC: LPCM (24-bit 4ch)
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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
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1KHz, -12dB / -18dB / -20dB / Off
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On/Off (20dB)
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Yes
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Capacitive LCD touch panel
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3.0-inch (7.5 cm, approx. 460,000 dots)
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No
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Dual Pixel Focus Guide / Peaking / Magnify
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Selectable Peaking Colour: Red / Blue / Yellow
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70% or 100% reference level
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Grid (white/grey) and Level (white/grey)
--

0.24-inch, approx. 1.56 million dots
--------------------------------------

+2.0 to -5 diopter
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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
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3.5mm stereo mini jack
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HDMI™ mini connector
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Min-B, Hi-Speed USB, PTP class supported
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XA55: 3G-SDI with BNC connector
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XA50: No
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Superimposed on HDMI output signal (Camera Mode only)
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No
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No
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No
----

3.4mm jack
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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  $\pm 3$  when locked or  $\pm 2$  in AUTO ( $\pm 8$  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)

### Custom Picture Menu\*

CP Files:  
C1: Normal / C2:Wide DR / C3: Canon Log3  
C4: EOS Std. / C5: USER05 / C6: USER06  
Gamma / Colour Space:  
BT.709 Wide DR / BT.709  
Canon Log 3 / BT.709  
EOS Std. / BT.709  
BT.709 Normal / BT.709  
BT.709 Standard / BT.709  
Colour Matrix:  
Neutral / Production Camera / EOS Std. / Video  
Yes (green or white)

### Infrared shooting mode

Yes, in detachable Handle Unit.

### Built-in IR lamp

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: Digital Tele converter / AF / MF / AF Frame / Face Only AF / Magnification / Peaking / Push Auto Iris / Zebra 70% / Zebra 100% / Focus Guide / BLC Always On / Powered IS / White Balance / Set WB / WB Priority / IR Light / Pre REC / Slow and Fast Motion / Review Recording / Photo / Monitor Channel / Marker / Menu / Custom Picture / Off

## Custom dial

### TIME CODE

### Count up system

Av / Tv / M / AGC Limit / Exposure Compensation / Off

### Time Code out

Regen / Rec Run / Free Run / Preset (Non-Drop Frame)  
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  
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-10LiLi, Canon Battery Pack BP-900 series (for VL-10Li/VL-10LiLi), 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

### Optional (Includes items not currently on sale)

## 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

\* Firmware update may be required to activate all features

## Disclaimers

All specifications are subject to change without notice



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CAMCORDER WITH DUAL PIXEL CMOS AF  
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Sales Start Date: June 2019

**PRODUCT DETAILS:**

Product Name	Mercury Code	EAN Code	Recommended Retail Price
XA55 GB	3668C007AA	8714574662442	<Please fill in RRP>
XA50 GB	3669C007AA	8714574662428	<Please fill in RRP>

**CONSUMABLES:**

Product Name	Mercury Code	EAN Code	Recommended Retail Price
Battery BP-820	8597B002AA	4960999984490	<Please fill in RRP>
Battery BP-828	8598B002AA	4960999984520	<Please fill in RRP>
Battery Charger CG-800	2590B003AA	4960999612188	<Please fill in RRP>
Battery Charger CG-800E(B)	2590B006AA	4960999610573	<Please fill in RRP>
Remote Controller RC-V100	9660B001AB	4549292014013	<Please fill in RRP>
Video Light VL-10Li II	1729B001AA	4960999408316	<Please fill in RRP>
Shoulder Strap SS-600	3122A001BA	4960999605913	<Please fill in RRP>
Shoulder Strap SS-650	3123A001BA	4960999605951	<Please fill in RRP>
Wrist Strap WS-20	3118A001BA	4960999600314	<Please fill in RRP>
Soft carrying case SC-2000	9389A001AA	4960999209852	<Please fill in RRP>
HDMI cable HTC-100	2384B001AA	4960999530383	<Please fill in RRP>
GPS receiver GP-E2	6363B001AA	4960999848358	<Please fill in RRP>
Tele-converter TL-U58	2493C001AA	4549292105391	<Please fill in RRP>
Wide attachment WA-U58	2494C001AA	4549292105407	<Please fill in RRP>



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

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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 GB / XA50 GB	3668C007AA 3669C007AA	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

# Canon

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