

TECHNICAL SPECIFICATIONS

XA55 / XA50

CAMERA			
IMAGE SENSOR			
Sensor	1.0-type CMOS	Recording frame rate (PAL)	MP4: 25.00P (UHD), 50.00P/25.00P (Full HD) XF-AVC: 25.00P (UHD), 50.00P/50.00P/25.00P (Full HD)
Filter	RGB Primary Colour Filter	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 Yes, 3 seconds
Total pixels	Approx. 13.4 MP	Pre Recording function	JPEG up to 3840x2160 (Still image resolution is dependent on the video resolution)
Effective pixels per sensor	Approx. 8.29 MP (3840 x 2160)	Still photos	SD Card
Subject illumination range	Approx. 0.1 lx to 100,000 lx	Photo storage media	
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.)	AUDIO	
		Recording	MP4: MPEG-2 AAC-LC (16-bit 2ch) / LPCM (16-bit 4ch) XF-AVC: LPCM (24-bit 4ch)
LENS		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 1KHz, -12dB / -18dB / -20dB / Off On/Off (20dB)
Zoom ratio	15x optical	Reference tone	Yes
Focal length (35mm equivalent)	Approx. 25.5 to 382.5 mm Standard IS/IS Off	Microphone attenuation	
Minimum focus distance	10 mm at wide end, 60 cm across entire zooming range	Microphone level meter	
Aperture	f/2.8 - f/11 (AV Priority and Manual Modes)	SYSTEM	
Aperture blades	9 blades	MONITORING PANEL	
Filter diameter	58mm	Type	Capacitive LCD touch panel
Image stabilization system	Optical system (lens shift) + electronic stabilization Dynamic, Standard, Powered, Off	Size	3.0-inch (7.5 cm, approx. 460,000 dots)
ND filter	3 densities: turret switched, motor-driven. ND 1/4, ND 1/16, and ND 1/64.	Waveform Monitor	No
Zoom control	Zoom rockers on body and handle; Selectable manual zoom/focus ring on lens; Wireless controller; Selectable High Speed mode available.	Focus Assist	Dual Pixel Focus Guide / Peaking / Magnify
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)	Peaking	Selectable Peaking Colour: Red / Blue / Yellow
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)	Zebra	70% or 100% reference level
		Markers	Grid (white/grey) and Level (white/grey)
Focus System	Dual Pixel CMOS AF, Contrast AF	VIEWFINDER	
Iris control	Touchscreen, Auto	Size	0.24-inch, approx. 1.56 million dots
Digital zoom/Teleconverter	300x Digital Zoom, 2x Digital Teleconverter	Correction lens	+2.0 to -5 dioptrre
IMAGE PROCESSOR		INPUTS/OUTPUTS	
Type	DIGIC DV6	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
Dynamic range	800% in Wide DR mode	Headphone output	3.5mm stereo mini jack
Colour sampling	YCC 4:2:0	HDMI output	HDMI™ mini connector
Bit depth	8-bit	USB	Min-B, Hi-Speed USB, PTP class supported
RECORDING		SDI output	XA55: 3G-SDI with BNC connector XA50: No
Video storage media	SD/SDHC/SDXC card (2 card slots)	Time code	Superimposed on HDMI output signal (Camera Mode only)
Type	Class U3 cards recommended	Genlock	No
Recording time (64GB Card, approx.)	MP4: 150Mbps: 55 mins / 35Mbps: 220 mins XF-AVC: 160 Mbps: 50 mins / 45 Mbps: 185 mins	LAN	No
Recording file system	FAT32/exFAT	AV terminal	No
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)	DC input	3.4mm jack
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 SDI* / HDMI (50.00P) * SDI output with XA55 only	Remote Control Terminal	2.5mm mini jack
External monitoring			

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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-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

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. 1,445g
XA50: Approx. 1,435g
(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

!!! All specifications are subject to change without notice

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