XF405 / XF400

1.0-Type CMOS COMPACT CAMCORDER OFFERING 4K UHD/50P WITH DUAL PIXEL CMOS AF

Offering broadcast quality UHD and Full HD capability into a handheld, lightweight body with a 1.0-Type CMOS sensor, a 15x 4K zoom lens and Dual Pixel CMOS AF, the XF405 /XF400 produces outstanding clarity and sharpness. With the addition of a 100P high frame rate and network capability for FTP transfer and remote control, this camcorder is ideal for newsgathering, documentary or corporate use.

- 4K UHD/50P recording on SD cards with high frame rates

- High quality 4K lens with 15x zoom

- Dual Pixel CMOS AF for high-speed, precise autofocus

- Network capability with FTP transfer and remote control

- Compact and lightweight body, professional operability

4K UHD | **1.0 Type CMOS** | **15× OPTICAL ZOOM**

OPTICAL IMAGE STABILIZER DYNAMIC | **HFR High Frame Rate** | **Dual Pixel CMOS AF**

PRODUCT RANGE

XF405 / XF400 (4K)

XC15 (4K)

XC10 (4K)

XF405 / XF400 (4K)
XC15 (4K)
XC10 (4K)
XF305 / XF300
XF205 / XF200
XF105 / XF100
XA35 / XA30
XA15 / XA11

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TECHNICAL SPECIFICATIONS

XF405 / XF400

CAMERA
IMAGE SENSOR

Sensor	1.0 - type CMOS
Filter	RGB Primary Colour Filter
Total pixels	13.4 MP
Effective pixels per sensor	8.29 MP
Subject illumination range	Approx. 0.1 lx to 100,000 lx
Minimum illumination (PAL/50.00Hz Mode)	Approx. 1.4 lx, P Mode(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	15 x Optical
Focal length	Approx. 25.5 to 382.5 mm
Minimum focus distance	10 mm at wide end, 60 cm across entire zooming range
ND filter	3 densities: turret switched, motor-driven. Each press of the ND button will switch the display between ND 1/4, ND 1/16, and ND 1/64.
Zoom control	Via Zoom Rocker Switch, Lens Control ring or Remote Control
Zoom speed	Selectable. Variable or constant speed. Fast, Normal or Slow speed.
Focus control	Manual via Lens Ring, Dual Pixel CMOS AF, Face Only, Face Priority
Iris control	Manual via Iris Control Dial, Auto
Aperture range	f/2.8 - f/11 (AV Priority and Manual Modes)
Filter diameter	58mm
Lens elements/groups	14 groups of 18 elements (double aspherical lenses and single Hi-UD lenses)
Aperture blades	9 Blades
Image stabilization system	Optical system (lens shift) + electronic stabilization Dynamic, Powered IS, Standard
Digital zoom/Teleconverter	Yes. 300 X Digital Zoom, 2 X Digital Teleconverter.

IMAGE PROCESSOR

Type	Dual DIGIC DV6
Dynamic Range	12 stops (800%) in Wide DR mode
Sampling accuracy	YCC 4:2:0
Bit depth	8 bit
Looks settings	Standard, Wide DR, Monochrome

RECORDING

Video storage media	SD/SDHC/SDXC card
Type	Class U3 recommended for recording at 150MBPS
Recording time (64GB Card, approx.)	150 Mbps: 55 Minutes. 35Mbps: 240 Mins
Recording file system	FAT32/exFAT
Internal Recording format	MP4 3840x2160 (150 Mbps) / 1920x1080 (35/17 Mbps) / 1280x720 (8/4 Mbps) NTSC: 59.94P / 29.97P / 23.98P PAL: 50.00P / 25.00P depending on recording resolution selected
External Recording Output	SDI: XF405 Only NTSC:1920x1080 59.94P YCC422 10bit /1920x1080 29.97P YCC422 10bit PAL: 1920x1080 50.00P YCC422 10bit / 1920x1080 25.00P YCC422 10bit HDMI: XF405 and XF400 NTSC: 3840x2160 59.94P YCC420 8bit / 1920x1080 59.94P YCC422 10bit / 3840x2160 29.97P YCC422 8bit / 1920x1080 29.97P YCC422 10bit PAL: 3840x2160 50.00P YCC420 8bit /1920x1080 50.00P YCC422 10bit / 3840x2160 25.00P YCC422 8bit / 1920x1080 25.00P YCC422 10bit
Recording frame rate (PAL Mode)	50.00P/25.00P
Slow/Fast motion (PAL/50.00Hz Mode)	Yes. 3840 x 2160: 50.00P: x2, x4, x10, x20, x60, x120, x600, x1200 25.00P: x0.5 1920 x 1080: 50.00P: x0.5, x2, x4, x10, x20, x60, x120, x600, x1200 25.00P: x0.25, x0.5 1280 x 720,50.00P/8Mbps: x2, x4, x10, x20, x60, x120, x600, x1200 25.00P/4Mbps: x0.5

Interval / Frame / Pre Record

Interval Record	No
Frame Record	No
Pre Record (cache record)	Yes. 3 Seconds
Scan Reverse	No
Still quality	3840x2160 / 1920x1080 / 1280x720 (Still image resolution is dependent on the video resolution)
Photo storage media	SD Card

AUDIO

Recording	MPEG-4 AAC-LC (16-bit 2CH) / LPCM (16-bit 4CH)
Control	Manual or Auto
Reference Tone	1KHz, -12dB / -18dB / -20dB / Off
Microphone level meter	Yes

SYSTEM
PANEL

Type	LCD Capacitive touch panel
Size	3.5-inch (8.9 cm)
Dots	(approx. 1.56 million dots)
Adjustable	Yes
Waveform Monitor	No
Focus Assist	Yes. Focus Guide Function in MF
Peaking	Yes. Selectable Peaking Colour: Red / Blue / Yellow
Zebra	Yes. 70%, 100%
Markers	Yes. Horizontal (grey) / Horizontal (white) / Grid (grey) / Grid (white)

CVF

Size	0.24-inch
Dots	approx. 1.56 million dots
Adjustable	Yes
Viewing Angle	100%
Correction lens	.+2.0 - -5 diopter

INPUTS/OUTPUTS

Audio in	XLR 3-pin jacks (x2), balanced on Handle Unit. 3.5mm Stereo jack (unbalanced) on camera body
Headphone output	Yes. 3.5mm
Video monitor output	No
HDMI	Yes.
USB	Yes. Min-B and Hi-Speed USB supported
SDI output	Yes. BNC Connector (XF405 only)
Time code	No. Timecode out via HDMI is possible
Genlock	No
LAN	Yes. Ethernet connector (RJ45) (supports 1000 BASE-T)
AV terminal	No
DC input	Yes. 3.4mm Jack
Remote Control Terminal	Yes. 2.5mm mini jack

SHOOTING FUNCTIONS
EXPOSURE

Exposure metering	Centre-weighted average metering: In the AUTO, P, Av, Tv, Portrait, Sports, Low Light and IR modes Segment evaluative metering: Snow, Beach, Sunset, Spotlight, Night modes No metering: Fireworks; Fixed exposure [1/60 sec. (PAL: 1/50 sec.)], M (manual exposure)
Exposure compensation	Highlight AE, Exposure lock, Auto backlight compensation, Exposure compensation amount shown as ±3 when locked or ±2 in AUTO (±8 increments).
Auto Exposure mode	P, Tv, Av,), SCN (Portrait, Sports, Snow, Beach, Sunset, Night, Low Light, Spotlight, Fireworks)
Auto Gain Control setting	Yes
Auto Gain Control limit	In manual exposure (P, Av, and Tv modes): 0-29 dB (in 1 dB increments) Not wide DR mode, not S&F x 1/4: 0-29 dB (in 1 dB increments) Not wide DR mode, S&F x 1/4: 9-29 dB (in 1 dB increments) Wide DR mode, not S&F x 1/4: 9-29 dB (in 1 dB increments) Wide DR mode, S&F x 1/4: 18-29 dB (in 1 dB increments)

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TECHNICAL SPECIFICATIONS

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Gain setting	M (Manual) shooting, Not wide DR: 0-39 dB (1 dB increments) Wide DR: 9 - 39 dB (1 dB increments) (Some of the above values include TBD items.)

WHITE BALANCE

Setting	Auto, Manual
Preset	Daylight: 5,600 K, Tungsten: 3,200, Default value for set 1, set 2: 5,600 K Colour temperature (Kelvin) setting ranges from 2,000 K to 15,000 K.

SHUTTER SPEED

Control Modes	Manual, Tv, Auto, P Mode
Shutter speed (PAL)	1/2 - 1/2000 sec
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

INFRARED

Infrared shooting mode	Yes
Built-in IR lamp	Yes, in Handle Unit

MISC.

Tally lamp	Yes
Colour Bars	EBU / SAMPTE (PAL); SMPTE / ARIB (NTSC)
Accessory shoe	Cold Shoe
Custom Button Assignment	Yes. 5 assignable buttons. Powered IS / BLC Always On / Face Only AF / WB Priority / Pre Rec / IR Light / Audio Output CH / Focus Guide / [AF/MF] / Rec Review / Enlarged Display / PHOTO / Off
Custom Dial	Yes. [Av / Tv / M] / Exposure Compensation / AGC Limit / Off
Wireless LAN standards	IEEE802.11b/g/n/a (2.4 GHz/5 GHz)
Supported Wi-Fi Functions	Browser Remote. (Camera Mode) FTP file transfer (Media Mode)
Supported Browser for Remote Operation	Internet Explorer 8 or later, Safari (iOS 9 or 10), Safari (MacOS), Android standard browser Andoid 4.4 - 6.0
Remote Operation Control Features	1) Aperture (including ND control) (2) Focus The amount by which the focus is driven toward NEAR and toward FAR can each be controlled in 3 steps. (3) White balance (4) Shutter speed (5) Gain (6) Exposure compensation (7) Shooting mode (8) Zooming and SLOT SELECT control can be exercised. The free memory remaining on the media, time code, remaining battery charge, etc. can be checked. Live View.
Live view image Resolution	Camera setting mode: 680 x 383 Simplified setting mode: 284 x 160
Encryption	When Wi-Fi has been set manually in the XF405, select "Open Encoding," "Open WEP," "Shared key/WEP", "WPA, WPA2-PSK," or "WPA2-PSK AES." (*1) At the WPS setting stage, the settings are established automatically according to the authentication and encryption systems set at the access point.
GPS Information (Optional Accessory)	Location (latitude, longitude and altitude) as well as the GPS information while using Coordinated Universal Time (UTC) can be added to MP4 movies and photos. Also, based on this information, the satellite data acquisition status can be checked in camera mode.

TIME CODE

Count up system	Rec Run / Free Run
Start value setting	00:00:00:00 - 23:59:59:29 (PAL 23:59:59:24)
Drop Frame	DF / NDF
User BIT Type	Setting (00 00 00 00 - FF FF FF FF) / Time / Date

ACCESSORIES

Supplied	Lens hood with barrier, Mic holder unit (w/ screw), Handle unit, Wireless Controller (WL-D89), Lithium battery (CR2025), AC adapter (CA-946), Battery Pack BP-828, AC Cable, Lens Cap
Optional Accessories (Includes items not currently on sale)	Canon Battery Pack BP-820/BP-828 Canon AC Adapter CA-946 (included with XF405) Canon Battery Charger CG-800/CG-800E, Canon High speed HDMI cable HTC-100, Canon High speed HDMI cable HTC-100/ High speed HDMI cable HTC-100/S, 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-XX Canon PROTECT filter 58 mm, Canon ND4-L filter 58 mm Canon ND8-L filter 58 mm, 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 The asterisks (*) indicate new accessories.

BATTERY

Power Consumption	8.4W (MP4, 3840 x 2160, 50.00P Panel in use)
Battery Pack	Canon Battery Pack BP-828 (supplied) BP-820 (Optional)
Continuous Recording Time (approx.)	BP-828: 125 mins (MP4, 3840 x 2160, 50.00P Panel in use)

MISCELLANEOUS

Dimensions	Approx. 150 x 216 x 267 mm (approx. 5.9 x 8.5 x 10.5 in.) [Including lens hood, BP-828, mic holder unit, and handle unit]
Weight (camera only)	XF405: 1150g (2.5 lb) XF400: 1145g (2.5lb)
Weight (fully equipped)	XF405: 1670g (3.7lb) XF400: 1665g (3.7lb) Camera, Lens Hood, Handle Unit, BP-828 battery, 1 SD 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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OFFERING 4K UHD/50P WITH DUAL PIXEL CMOS AF

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Sales Start Date: Nov 2017

PRODUCT DETAILS:

Product Name	Mercury Code	EAN Code	Recommended Retail Price
XF405 EU8	2212C003AA	4549292105704	<Please fill in RRP>
XF405 EU18	2212C010AA	8714574654737	<Please fill in RRP>
XF400 EU8	2213C003AA	4549292089769	<Please fill in RRP>
XF400 EU18	2213C008AA	8714574654744	<Please fill in RRP>

OPTIONAL ACCESSORIES:

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>
AC Adapter CA-946	1764C003AA	4549292084245	<Please fill in RRP>
AC Adapter CA-946 GB (UK model)	1764C005AA	8714574650579	<Please fill in RRP>
Battery Charger CG-800E	2590B003AA	4960999612188	<Please fill in RRP>
Battery Charger CG-800E(B) (UK model)	2590B006AA	4960999610573	<Please fill in RRP>
Remote Control RC-V100	9660B001AA	4549292014013	<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>

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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)
XF405 EU8	2212C003AA	EA	Individual	1	360	301	328	3.76
XF405 EU18	2212C010AA	CT	Pallet (Upper)	1	373	317	349	4.49
XF400 EU8	2213C003AA	EP	Pallet (Bottom)	18	1200	800	1197	90.8
XF400 EU18	2213C008AA		Layers per Pallet	3				
			Cartons per Layer	6				
			Products per layer	6				

What's in the box?

- XF405/XF400
- Handle Unit
- Lens hood with lens barrier
- Battery pack BP-828
- Power adapter CA-946
- Mic holder
- Wireless Controller WL-D89
- User manual

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