

# XF405 / XF400

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



- 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

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.



### 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

**Canon**

# TECHNICAL SPECIFICATIONS

# XF405 / XF400

## CAMERA

### IMAGE SENSOR

**Sensor**  
**Filter**  
**Total pixels**  
**Effective pixels per sensor**  
**Subject illumination range**  
**Minimum illumination (PAL/50.00Hz Mode)**

1.0 - type CMOS  
 RGB Primary Colour Filter  
 13.4 MP  
 8.29 MP  
 Approx. 0.1 lx to 100,000 lx  
 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**  
**Focal length**  
**Minimum focus distance**  
**ND filter**

15 x Optical  
 Approx. 25.5 to 382.5 mm  
 10 mm at wide end, 60 cm across entire zooming range  
 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 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)  
 SD Card

### Photo storage media

## AUDIO

### Recording Control

MPEG-4 AAC-LC (16-bit 2CH) / LPCM (16-bit 4CH)

### Reference Tone

Manual or Auto

### Microphone level meter

1KHz, -12dB / -18dB / -20dB / Off

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)

# TECHNICAL SPECIFICATIONS

# XF405 / XF400

<b>Gain setting</b>	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.)	<b>TIME CODE</b>	Rec Run / Free Run 00:00:00:00 - 23:59:59:29 (PAL 23:59:59:24) DF / NDF Setting (00 00 00 00 - FF FF FF FF) / Time / Date
<b>WHITE BALANCE</b>		<b>Count up system</b>	
<b>Setting</b>	Auto, Manual	<b>Start value setting</b>	
<b>Preset</b>	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.	<b>Drop Frame</b>	
		<b>User BIT Type</b>	
<b>SHUTTER SPEED</b>		<b>ACCESSORIES</b>	
<b>Control Modes</b>	Manual, Tv, Auto, P Mode	<b>Supplied</b>	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 Canon Battery Pack BP-820/BP-828
<b>Shutter speed (PAL)</b>	1/2 - 1/2000 sec	<b>Optional Accessories (Includes items not currently on sale)</b>	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-10LiIII Canon Battery Pack BP-900 series (for VL-10Li/VL-10LiIII), 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.
<b>Slow Shutter (SLS)</b>	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.		
<b>Clear Scan</b>	No		
<b>INFRARED</b>		<b>BATTERY</b>	
<b>Infrared shooting mode</b>	Yes	<b>Power Consumption</b>	8.4W (MP4, 3840 x 2160, 50.00P Panel in use)
<b>Built-in IR lamp</b>	Yes, in Handle Unit	<b>Battery Pack</b>	Canon Battery Pack BP-828 (supplied) BP-820 (Optional)
<b>MISC.</b>		<b>Continuous Recording Time (approx.)</b>	BP-828: 125 mins (MP4, 3840 x 2160, 50.00P Panel in use)
<b>Tally lamp</b>	Yes	<b>MISCELLANEOUS</b>	
<b>Colour Bars</b>	EBU / SMPTE (PAL); SMPTE / ARIB (NTSC)	<b>Dimensions</b>	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]
<b>Accessory shoe</b>	Cold Shoe	<b>Weight (camera only)</b>	XF405: 1150g (2.5 lb) XF400: 1145g (2.5 lb)
<b>Custom Button Assignment</b>	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	<b>Weight (fully equipped)</b>	XF405: 1670g (3.7 lb) XF400: 1665g (3.7 lb) Camera, Lens Hood, Handle Unit, BP-828 battery, 1 SD card
<b>Custom Dial</b>	Yes. [Av / Tv / M] / Exposure Compensation / AGC Limit / Off	<b>Operating Temperature range</b>	Approx. 0 to 40 °C, 85 % (relative humidity) Approx. -5 to 45 °C, 60 % (relative humidity)
<b>Wireless LAN standards</b>	IEEE802.11b/g/n/a (2.4 GHz/5 GHz)	<b>Footnotes</b>	All specifications are subject to change without notice
<b>Supported Wi-Fi Functions</b>	Browser Remote. (Camera Mode) FTP file transfer (Media Mode)		
<b>Supported Browser for Remote Operation</b>	Internet Explorer 8 or later, Safari (iOS 9 or 10), Safari (MacOS), Android standard browser Android 4.4 - 6.0		
<b>Remote Operation Control Features</b>	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.		
<b>Live view image Resolution</b>	Camera setting mode: 680 x 383 Simplified setting mode: 284 x 160		
<b>Encryption</b>	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.		
<b>GPS Information (Optional Accessory)</b>	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.		

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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

