

XF405 XF400



*Microphone not included

Versatile, Compact 4K ENG Camcorder



The XF405 and XF400 feature a 1.0-Type CMOS sensor and DIGIC DV 6 image-processing platform to achieve high quality 4K/50p images. These advanced features are all integrated in a compact and lightweight body.

4K UHD/50P high frame rate recording to SD cards



The XF405 and XF400 support UHD/50P MP4 and XF-AVC* format (150Mbps) recording and 100fps continuous slow motion shooting. Low noise and high sensitivity are managed by a Canon CMOS sensor and dual DIGIC DV 6 image processors, which deliver high-quality footage with great clarity and detail. They also offer continuous 100fps recording in Full HD in order to deliver slow motion footage.

High-quality 4K 15x zoom lens

A newly developed 15x optical zoom lens (35 mm film equivalent: 25.5 mm–382.5 mm) delivers stunning 4k images. Also, a 30x Advanced Zoom capability is offered in Full HD mode, without any image deterioration.

Dual pixel CMOS AF for high-speed, precise autofocus

Dual Pixel CMOS AF is featured in both the XF405 and XF400 for fast and accurate autofocusing in approximately 80% of the image. A touch screen allows further focus control and intuitive camera operation.

*XF-AVC will be supported in a future firmware update in 1H 2018



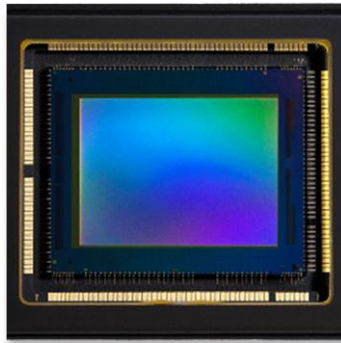
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Shooters have the freedom to capture a diverse range of scenes in professional 4K UHD quality.



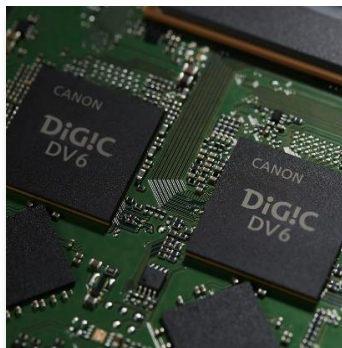
Canon's 1.0-Type CMOS enhances high sensitivity and low noise performance to increase shooting area and expressive capabilities.



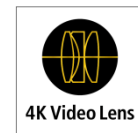
Support for UHD (3840 x 2160) 50P means the XF400 & XF405 is ready for a wide range of fields from cinema to broadcasting.



Slow motion recording of up to 100 fps (x0.25) in FHD to easily create an emotionally moving and exciting style of video



Dual DIGIC DV 6 image processors manage deliver high-quality footage with great clarity and detail.



A newly-developed 4K lens supports the large 1.0 inch CMOS while remaining slim and compact.

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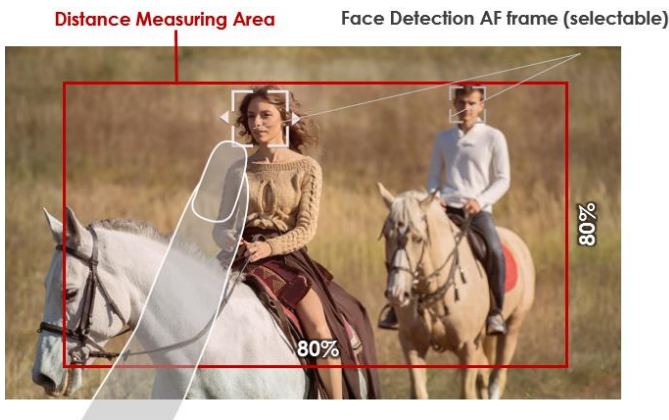
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Dual Pixel CMOS AF Dual Pixel CMOS AF



The touch panel enables smooth, intuitive operation of Dual Pixel CMOS AF. When used in combination with the face detection AF, users have the flexibility to choose the right auto focus shooting solution they need.

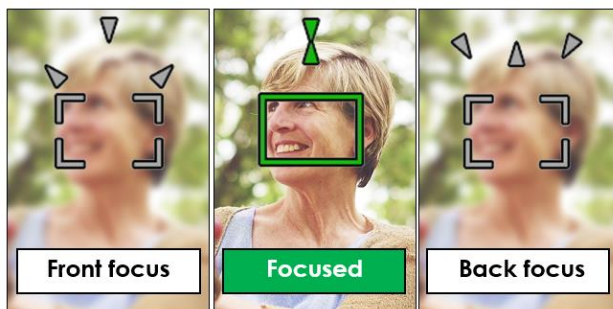
Touch AF & Face Detection AF



Dual Pixel CMOS AF Supports 4K UHD 50P/FHD 100P



Dual Pixel Focus Guide



The innovative UI applies Dual Pixel CMOS AF phase-difference detection AF technology to also tell the user if the focus position is in the front or the back. An useful feature when shooting in 4K, which requires strict focus accuracy

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Operability & Flexibility in a Compact Body

High Quality Linear PCM 4ch Audio



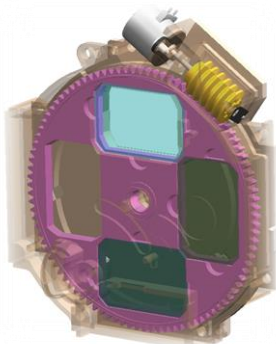
The on-board 4ch audio independent settings let users set recording levels, input sensitivity, and limiters for each channel

4K UHD 50P recording on SD cards



Relay and simultaneous recording are provided via Dual SD card slots, which helps to expand recording times and to create an immediate backup.

Independent Built-in 3-density ND Filter



A compact, independent internal 3-density ND filter allows optimum exposure in various lighting environments.

ND Filter effects



Density can be adjusted using the dedicated external buttons

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Technical Specifications

Canon XF405 and XF400	
Image Sensor	
Sensor	1.0inch type CMOS
Filter	RGB Primary Colour Filter
Total pixels	13.4 MP
Effective pixels per sensor	9.29 MP
Subject illumination range	Approx. 0.1 lx 01 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: D191A Only NTSC: 1920x1080 59.94P YCC422 10bit / 1920x1080 29.97P YCC422 10bit PAL: 1920x1080 50.00P YCC422 10bit / 1920x1080 25.00P YCC422 10bit HDMI: D191A and D191B 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)
Photo storage media	SD Card

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Technical Specifications

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
SD-SDI output	Yes. BNC Connector
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)
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

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Technical Specifications

Infrared	
Infrared shooting mode	Yes
Built-in IR lamp	Yes, in Handle Unit
Misc.	
Tally lamp	Yes
Colour Bars	EBU / SMPTE (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 Android 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 D191, 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 D191) 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 GPE2 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
Battery	
Power Consumption	3.4W (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)	D191A: 1150g(2.5 lb) D191B: 1145g (2.5lb)
Weight (fully equipped)	D191A: 1670g (3.7lb) D191B: 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	
* Indicates new accessories	

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