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.













XF405 / XF400 (4K)

PRODUCT RANGE



XF405 / XF400 (4K)



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

XC10 (4K)



TECHNICAL SPECIFICATIONS

CAMERA

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

LENS

Zoom ratio Focal length Minimum focus distance ND filter

Zoom control

Zoom speed

Focus control

Iris control Aperture range Filter diameter Lens elements/groups

Aperture blades Image stabilization system

Digital zoom/Teleconverter

IMAGE PROCESSOR Type Dynamic Range Sampling accuracy Bit depth Looks settings

RECORDING

Video storage media Type Recording time (&GB Card, approx.) Recording file system Internal Recording format

External Recording Output

Recording frame rate (PAL Mode) Slow/Fast motion (PAL/50.00Hz Mode) 1.0 - type CMOS RGB Primary Colour Filter 13.4 MP 8.29 MP Approx. 0.1 Ix to 100,000 Ix Approx. 1.4 Ix, P Mode(shutter speed 1/25 sec.) (50.00P; with auto slow shutter On), Low Light Mode: Approx. 0.1 Ix (shutter speed 1/2 sec.)

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. Via Zoom Rocker Switch, Lens Control ring or Remote Control Selectable. Variable or constant speed. Fast, Normal

or Slow speed. Manual via Lens Ring, Dual Pixel CMOS AF, Face Only, Face Priority

Manual via Iris Control Dial, Auto f/2.8 - f/11 (AV Priority and Manual Modes) 58mm

14 groups of 18 elements (double aspherical lenses and single Hi-UD lenses) 9 Blades

Optical system (lens shift) + electronic stabilization Dynamic, Powered IS, Standard Yes, 300 X Digital Zoom, 2 X Digital Teleconverter.

Dual DIGIC DV6 12 stops (800%) in Wide DR mode YCC 4:2:0 8 bit Standard, Wide DR, Monochrome

SD/SDHC/SDXC card Class U3 recommended for recording at 150MBPS 150 Mbps: 55 Minutes. 35Mbps: 240 Mins

FAT32/exFAT 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 SDI: XE405 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

50.00P/25.00P

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 Frame Record Pre Record (cache record) Scan Reverse Still quality

Photo storage media

AUDIO Recording Control Reference Tone Microphone level meter

SYSTEM

PANEL Type Size Dots Adjustable Waveform Monitor Focus Assist Peaking Zebra Markers

CVF Size Dots Adjustable Viewing Angle Correction lens

INPUTS/OUTPUTS Audio in

Headphone output Video monitor output HDMI USB SDI output Time code Genlock LAN AV terminal DC input Remote Control Terminal

SHOOTING FUNCTIONS

EXPOSURE Exposure metering

Exposure compensation

Auto Exposure mode

Auto Gain Control setting Auto Gain Control limit No No Yes. 3 Seconds No

3840x2160 / 1920x1080 / 1280x720 (Still image resolution is dependent on the video resolution) SD Card

MPEG-4 AAC-LC (16-bit 2CH) / LPCM (16-bit 4CH) Manual or Auto 1KHz, -12dB / -18dB / -20dB / Off Yes

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

0.24-inch approx. 1.56 million dots Yes 100% .+2.0 - -5 diopter

XLR 3-pin jacks (x2), balanced on Handle Unit. 3.5mm Stereo jack (unbalanced) on camera body Yes. 3.5mm No Yes. Yes. Min-B and Hi-Speed USB supported Yes. BNC Connector (XF405 only) No. Timecode out via HDMI is possible No Yes. Ethernet connector (RJ45) (supports 1000 BASE-T) No Yes. 3.4mm Jack

Yes. 2.5mm mini jack

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) Highlight AE, Exposure lock, Auto backlight compensation, Exposure compensation amount shown as ± 3 when locked or ± 2 in AUTO (± 8 increments). P, Tv, Av,), SCN (Portrait, Sports, Snow, Beach, Sunset, Night, Low Light, Spotlight, Fireworks) Yes 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)



XF405 / XF400

TECHNICAL SPECIFICATIONS

Gain setting

WHITE BALANCE Setting Preset

SHUTTER SPEED Control Modes Shutter speed (PAL) Slow Shutter (SLS)

Clear Scan

INFRARED Infrared shooting mode Built-in IR lamp

MISC. Tally lamp Colour Bars Accessory shoe Custom Button Assignment

Custom Dial

Wireless LAN standards Supported Wi-Fi Functions

Supported Browser for Remote Operation Remote Operation Control Features

Live view image Resolution

Encryption

GPS Information (Optional Accessory)

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.)

Auto, Manual 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.

Manual, Tv, Auto, P Mode 1/2 - 1/2000 sec 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.

No

Yes

Yes

Yes, in Handle Unit

EBU / SAMPTE (PAL); SMPTE / ARIB (NTSC) Cold Shoe 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 Yes. [Av / Tv / M] / Exposure Compensation / AGC

Limit / Off IEEE802.11b/g/n/a (2.4 GHz/5 GHz) Browser Remote. (Camera Mode) FTP file transfer

(Media Mode) Internet Explorer 8 or later, Safari (IOS 9 or 10), Safari (MacOS), Android standard browser Andoid 4.4 - 6.0 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. Camera setting mode: 680 x 383 Simplified setting mode: 284 x 160 When W-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. 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.

XF405 / XF400

TIME CODE Count up system Start value setting Drop Frame User BIT Type ACCESSORIES

Supplied

Optional Accessories (Includes items not currently on sale) 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

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 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 Nor Strap WS-20, Canon Shoulder Strap SS-XX Canon NROTECT filter 58 mm, Canon ND4-L filter 58 mm Canon ND8-L filter 58 mm, Canon Battery Video Light VL-10Li/VL-10LII), Canon Battery Video Light VL-10Li/VL-10LII), Canon Campact 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

8.4W (MP4, 3840 x 2160, 50.00P Panel in use)

(MP4, 3840 x 2160, 50.00P Panel in use)

XF405: 1150g (2.5 lb) XF400: 1145g (2.5lb)

Approx. 0 to 40 °C, 85 % (relative humidity)

Approx. -5 to 45 °C, 60 % (relative humidity)

(Optional)

handle unit]

1 SD card

BP-828: 125 mins

Canon Battery Pack BP-828 (supplied) BP-820

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

XF405: 1670g (3.7lb) XF400: 1665g (3.7lb) Camera, Lens Hood, Handle Unit, BP-828 battery,

Power Consumption Battery Pack

BATTERY

Continuous Recording Time (approx.)

MISCELLANEOUS Dimensions

Weight (camera only) Weight (fully equipped)

Operating Temperature range

Footnotes

All specifications are subject to change without notice

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