Canon

Delighting You Always

XF305 | XF300

PROFESSIONAL CAMCORDERS

Canon

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XF300

XF305

Canon XF305 & XF300 Professional Camcorders

Unparalleled imaging excellence that one can only expect from Canon. Combining intuitive operation, outstanding reliability and a whole host of features previously exclusive to only the most advanced professional broadcast camcorders, the Canon XF305 and XF300 are the definitive choice for any environment or application. Featuring MPEG-2 4:2:2 50Mbps recording straight into inexpensive Compact Flash cards, the XF305 and XF300 have been designed to work seamlessly with any established industry workflows at low-cost and maximal efficiency, delivering breathtaking images in Full HD, 1920 x 1080 video.

MPEG-2 Long-GOP

4:2:2

Twice the color resolution of 4:2:0

Brightness Signal | Color Difference Signals

50Mbps

Highest Recording Capability 50Mbps (CBR)

MXF

Material Exchange Format

Essence | Metadata

Genuine Canon 18x HD L-Series Lens

HD Video Lens

The XF305 and XF300 feature the 18x HD L-Series video lens, designed to capture images with absolute clarity and precision, delivering up to 1,000 TV lines of resolution. The dynamic range of the lens (35mm equivalent zoom range of 29.3-527.4mm) allows extreme flexibility for shooting either wide-angle or telephoto. Canon's L-Series designation, identified by the distinctive red ring, has long become the symbol of top quality lenses trusted and used as the lenses of choice by industry professionals the world over. Also drawing on Canon's broadcast lens expertise, the Canon 18x HD L-Series video lens incorporates High-Index-Ultra-Low Dispersion (HI-UD), UD, as well as aspherical lens elements to produce exceptional resolution and contrast, while minimizing chromatic aberration. Mechanical end stops are provided for both the zoom and focus systems to allow for smooth and precise handling. Distance indicators on the lens barrel enable the operator to easily move between focus points while in the midst of recording.

High Definition Evolved

Three Native 1920 x 1080 CMOS Image Sensors (Canon Engineered and Manufactured)

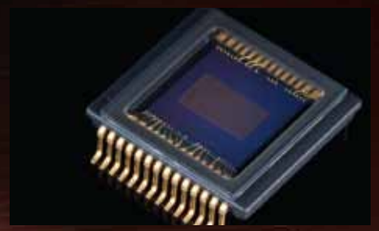
3CMOS

To achieve its outstanding Full HD video recording with minimal color noise, the XF305 and XF300 utilize three native 1920 x 1080 CMOS image sensors, designed and manufactured by Canon. High speed scanning virtually eliminates the effects of rolling shutter. The small 1/3-inch sensor enables a compact lens and body design, allowing the XF305 and XF300 to deliver a package of extreme mobility paired with superior image quality.

DIGIC DV III Image Processor

DiG!C DV III

Engineered and designed exclusively by Canon for their HD camcorders, the latest generation DIGIC DV III Image Processor delivers precise naturalistic colors and excellent black reproduction. Tonal graduations and detail in the shadows are reproduced with stunning clarity. The DIGIC DV III Image Processor features Genuine Canon Face Detection, an invaluable tool when capturing a specific face in the crowd. Additionally, DIGIC DV III operates on minimal power consumption, allowing for increased battery life.



SuperRange Optical Image Stabilizer

SuperRange OPTICAL IMAGE STABILIZER

The Canon XF305 and XF300 feature a new SuperRange Optical Image Stabilizer (OIS) system that ensures stable images that are stunning no matter what the situation. Powered mode suppresses camera shake and vibration most prevalent when shooting on longer focal lengths, while Dynamic mode is designed to compensate for even the smallest shake and jitter at wide angle focal lengths such as when walking and shooting.

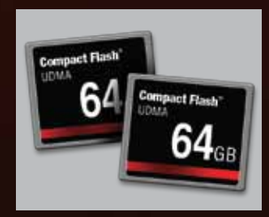
MPEG-2 4:2:2 50Mbps Codec

MPEG-2 4:2:2

Using Canon's new MPEG-2 4:2:2 50Mbps codec (Canon XF Codec), the XF305 and XF300 records Full HD video (1920 x 1080) at 50Mbps (Constant Bit Rate). This codec offers deep color and vivid detail in a file-based format that integrates seamlessly with existing industry workflows. 4:2:2 color sampling, twice the resolution of HDV and other 4:2:0 formats, has robust accurate color detail making it ideal for advanced post-production processes such as compositing, color correction or color grading. The XF305 and XF300 use the universal file format Material Exchange Format (MXF). MXF wraps audio and video information with metadata within a single file. This allows for flexibility and ease of exchange of audio and video materials through NLE (Non-Linear Editing) systems and easy access to critical information through the production process.

Compact Flash Card Recording

The XF305 and XF300 record Full HD video onto non-proprietary Compact Flash (CF) cards. CF cards are solid-state, rugged in their construction, inexpensive and widely available, meaning substantial savings in cost. Files can be transferred to computers with both speed and ease. Dual CF card slots allow the XF305 and XF300 uninterrupted filming, relay recording, copying and backup capabilities.

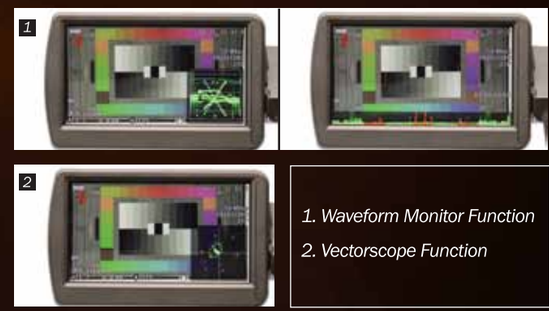


Smooth Integration With Production Infrastructure

Canon's constant collaboration with the major non-linear editing (NLE) companies ensured that the Canon XF Codec captured by the XF305 and XF300 is compatible with most professional production and broadcast scenarios, no matter what the scale. The use of MPEG-2 compression, an industry standard format, provides easy integration possibilities with broadcast, cable or satellite networks. Additionally, the XF305 comes with HD-SDI, genlock, and time code outputs, which have great applications in multi-camera setups or when syncing with other devices.The HD-SDI output also provides uncompressed Full HD (1920 x 1080) output.

Advanced Features

The XF305 and XF300 include within them a waveform monitor and vectorscope, making difficult shoots a thing of the past. These tools are often separate costly external units. The waveform monitor provides detailed measurements of image brightness and RGB components aiding one in getting ideal exposure levels. The vectorscope displays information on image hue and saturation, lending key support for accurate white balance and sudden color balance adjustments.



1. Waveform Monitor Function
2. Vectorscope Function

High Definition Evolved

4.0-inch LCD Monitor, High Resolution EVF and Advanced Focusing Features

The XF305 and XF300 are equipped with a high resolution 1.23 Megapixel 4.0-inch LCD monitor with close to 100% field of view coverage. The LCD swivels freely for viewing on either side of the camera, with an extra 35 degrees of movement depending on the requirements of the situation. The XF305 and XF300 also have advanced 1.55 Megapixel 0.52-inch color electronic viewfinders (EVF) that offer two peaking modes and a magnification mode for users to easily check focus marks with speed and accuracy.

Exclusive to Canon, the Edge Monitor Focus Assist system provides active feedback for focusing through two waveforms at the bottom half of the LCD monitor, green and red. The green waveform shows the whole image's overall focus while the red waveform shows the focus at a specific spot, the area of the focus check box, within the image.

Recording Modes and Frame Rates

The XF305 and XF300 are equipped with the versatility of shooting at different resolutions, speeds and bit rates. Options include capturing MPEG-2 4:2:2 files at 50Mbps (Constant Bit Rate), 35Mbps (Variable Bit Rate), for those that require additional shooting time, or 25Mbps (Constant Bit Rate) that is compatible with HDV footage. When set to 720p mode, the XF305 and XF300 is capable of shooting at speeds up to 50 frames per second, ideal for sports and action coverage. For NTSC compatible shooting, an optional upgrade for 60i, 30p and 24p recording is available through the Canon Factory Service Center.

The Pre-Record feature on the XF305 and XF300, once activated, buffers about three seconds of video into its memory, enabling recording to begin immediately without delay when the record button is engaged. This is perfect for shoots where there are starts and stops within the action without warning, ensuring that nothing will ever be missed. Other recording modes include Fast and Slow Motion, where the recorded frame rate varies from the playback frame rate. There is no quality loss due to interpolation.

Full image quality is guaranteed because the XF305 and XF300 record actual frames and then modify the playback rate. 1080i mode supports speeds as fast as 2.5x the normal frame rate and as low as 1/2.5x of it. In 720p mode this is doubled, to 5x the normal frame rate at Fast Motion and 1/1.25x of it at Slow Motion. When set to Interval Recording mode, the XF305 and XF300 is able to shoot a specified number of frames during pre-defined intervals. This is especially useful for shooting time-lapse sequences. The XF305 and XF300 also allows users to program it to record a specific number of frames whenever the camera is activated. This has wide applications in stop-frame animation.

Recording mode				
50Mbs - 4:2:2		35Mbs - 4:2:0		25Mbs - 4:2:0
1920 x 1080	1280 x 720	1920 x 1080	1280 x 720	1440 x 1080
50i	50p	50i	50p	50i
25p	25p	25p	25p	25p

Customization

The XF305 and XF300 have an extensive list of customizable settings, enabling the professional user to fine-tune every aspect of the camera. With adjustments to the vast range of changeable settings, according to individual user preference, camera operation becomes intuitive very quickly.

Literally any look is possible through the XF305 and XF300's Custom Picture Settings, which allows users to precisely define Gamma, Knee, Color Matric Adjustment, Saturation levels, Sharpness, Master Black, Skin Tone and many more similar adjustments.

The XF305 and XF300 provide numerous opportunities for customization according to the tastes and preferences of the user. 28 different functions can be assigned to the 13 buttons located on the cameras. User settings can easily be saved onto an SD card, and shared among different cameras or users saving valuable time on multiple-camera shoots where consistency in the look across cameras is vital or when shifting between different cameras.

Extensive Connectivity

The XF305 and XF300 are equipped with an extensive amount of connectivity options to ensure smooth cohesion with other production equipment. Inputs include DC-In terminals, enabling the hotswapping of batteries and AC power supply, XLR audio inputs for professional audio devices, USD 2.0 Hi-Speed, HDMI out, AV out, component video out, headphone jack, a dedicated video 2 out, as well as full LANC support for camera control from remote connection. The XF305 also features HD-SDI, genlock and SMPTE time code (in/out) to accommodate synchronizing with other devices and cameras, vital for live broadcast or a multi-camera production environment. The XF305 and XF300 are compatible with existing Canon BP-900 series batteries, which many professionals already owned, while also accepting the new Intelligent Lithium-Ion battery sytem that gives valuable information related to the remaining power levels and battery wear.

Canon XF Utility

The Canon XF Utility (compatible for both Mac and Windows platforms) that comes with the XF305 and XF300 allows users to easily manage and playback video clips. It is also allows users to add and edit metadata, backup their media and manage lists of clips in a number of display formats.

Refined Ergonomics and Durability for Easier Operation

The XF305 and XF300 are designed from the ground up to maximize shooting comfort and usability. The camcorders feature a redesigned layout making them more intuitive than any that came before them. New users and users switching from other products will find the button layout, camera menu system and camera controls familiar and easy to use out of the box. The well balanced design allows the operator to comfortably control the camera and easily maintain a steady shot while minimizing arm fatigue.

High Definition Camcorders

XL H1S

Exceptional Image Quality...Definitive Control... Professional Functionality

- Genuine Canon 20x High Definition L-series Video Zoom Lens III
- 1/3" 1.67 Megapixels 3CCD
- Independent Focus, Zoom and Iris rings
- True 1080 HD Capture with a choice of 50i or 25F frame rates
- Canon DIGIC DV II Image Processor delivers the highest image quality
- Canon Interchangable XL Lens Mount
- HD-SDI (SMPTE 299M) / SD-SDI (SMPTE 272M) Output with embedded audio and time code, Genlock Input, SMPTE Time Code Input and Output

XL H1A

The Definition of Professional HD

- Genuine Canon 20x High Definition L-series Video Zoom Lens III
- 1/3" 1.67 Megapixels 3CCD
- Independent Focus, Zoom and Iris rings
- True 1080 HD Capture with a choice of 50i or 25F frame rates
- Canon DIGIC DV II Image Processor delivers the highest image quality
- Canon Interchangable XL Lens Mount

XH G1S

Capture the Moment as It Happens

- Genuine Canon 20x High Definition L-series Video Zoom Lens III
- 1/3" 1.67 Megapixels 3CCD
- True 1080 HD Capture with a choice of 50i or 25F frame rates
- Canon DIGIC DV II Image Processor delivers the highest image quality
- SuperRange Optical Image Stablilizer can correct a wide range of movements without image degradation
- Instant AF Dramatically recuces focusing time and increaing accuracy
- HD-SDI (SMPTE 299M) / SD-SDI (SMPTE 272M) Output with embedded audio and time code, Genlock Input, SMPTE Time Code Input and Output

XH A1S

Your Vision...in High Definition

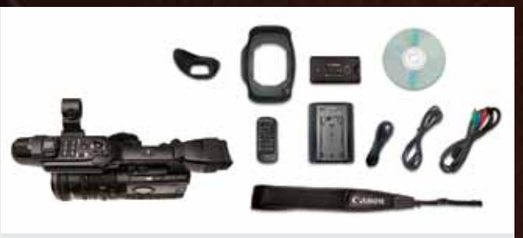
- Genuine Canon 20x High Definition L-series Video Zoom Lens III
- 1/3" 1.67 Megapixels 3CCD
- True 1080 HD Capture with a choice of 50i or 25F frame rates
- Canon DIGIC DV II Image Processor delivers the highest image quality
- SuperRange Optical Image Stablilizer can correct a wide range of movements without image degradation
- Instant AF dramatically reduces focusing time and increasing accuracy

Custom Picture Settings

Gamma	
Normal 1	
Normal 2	
Normal 3	
Normal 4	
Cine 1	
Cine 2	
Black	
Master Pedestal	-50 → +50
Master Black	
Red	-50 → +50
Green	-50 → +50
Blue	-50 → +50
Black Gamma	
Level	-50 → +50
Range	-5 → +50
Point	-1 → +50
Low Key Saturation	
Enable	On
	Off
Level	-50 → +50
Knee	
Enable	On
	Off
Auto	On
	Off
Slope	-35 → +50
Point	50 → 109
Saturation	-10 → +10
Sharpness	
Level	-10 → +50
Detail Frequency	-8 → +8
HV Detail Balance	-8 → +8
Limit	-50 → +50
Select	0 → +15
Knee Aperture	Gain 0 → 9
	Slope 0 → 3
Detail Sharp	Level 0 → 50
	Slope 0 → 3
	Offset 0 → 50
Level	-30 → +50
Coring	D-Ofst 0 → +50
	D-Curve 0 → +8
	D-Depth 4 → +4
Noise Reduction	
	Auto
	Off
	1 → 8
Skin Detail	
Effect Level	Off
	Low
	Middle
	High
Hue	-16 → +16
Chroma	0 → 31
Area	0 → 31
Y Level	0 → 31

Selective NR	
Effect Level	Off
	Low
	Middle
	High
Hue	0 → 31
Chroma	0 → 31
Area	0 → 31
Y Level	0 → 31
Color Matrix	
Select	Normal 1
	Normal 2
	Normal 3
	Normal 4
	Cine 1
	Cine 2
Gain	-50 → +50
Phase	-18 → +18
R-G	-50 → +50
R-B	-50 → +50
G-R	-50 → +50
G-B	-50 → +50
B-R	-50 → +50
B-G	-50 → +50
White Balance	
R Gain	-50 → +50
G Gain	-50 → +50
B Gain	-50 → +50
Color Correction	
Select Area	Off
	A
	B
	A&B
A Area Select	Phase 0 ~ 31
	Chroma 0 ~ 31
	Area 0 ~ 31
	Y Level 0 ~ 31
A Area Revision	Level -50 to +50
	Phase -18 to +18
B Area Select	Phase 0 ~ 31
	Chroma 0 ~ 31
	Area 0 ~ 31
	Y Level 0 ~ 31
B Area Revision	Level -50 to +50
	Phase -18 to +18
Setup Level	
Level	-50 → +50
Press	On
	Off
100% Clip	
	On
	Off

Kit Content



- XF305/XF300 Body
- Lens Hood
- Eyecup
- Battery Pack (BP-955)
- Compact Power Adapter (CA-930)
- DC Cable (DC-930)
- Wireless Controller (WL-D6000)
- Shoulder Strap (SS-1200)
- Component Cable (DTC-1500)
- Canon XF Utilities Disc

Optional Accesories

- Battery Pack (BP-975)

- Wide Angle Lens (WA-H82)

XF305/XF300 Specifications

Camera	
Image Sensor	
Sensor	1/3 type 3CMOS
System	RGB Prism
Total Pixels Per Sensor	2.37 megapixels
Effective Pixels Per Sensor	2.07 megapixels
Horizontal Resolution	1000 TV lines or more (1920 x 1080i mode)
Lens	
Zoom Ratio	18x
Focal Length	4.1 - 73.8mm (35mm equivalent: 29.3 - 527.4mm)
Minimum Focus Distance	1m; 20mm (MACRO)
ND Filter	3 glass filters: 1/4, 1/16, 1/64
Zoom Control	Ring, Rocker or Handle
Zoom Speed	Zoom Rocker: Variable speed/Fixed speed (16 speed level settings available); Handle zoom: Fixed speed (16 speed level settings available)
Focus Control	Manual ring or automatic (Instant AF, TV AF or Face Detection AF)
Iris Control	Manual ring; Full Auto; Push Auto Iris
Aperture Range	f1.6 - f22
Filter Diameter	82mm
Lens Elements/Groups	17/14
Image Stabilization System	Optical lens shift system (angle & vector movement detection); 3 modes: Dynamic, Standard, Powered
Digital Zoom	1.5X
Image Processor	
Type	DIGIC DV III

Recording	
Video Storage Media	Type 1 Compact Flash memory cards (2 card slots)
Type	UDMA4, 30MB/s or faster (40MB/s or faster for Fast/Slow recording)
Recording Time	32GB CF card: Up to 80mins (1080/50i @ 50 Mbps)
Recording File Format	Material eXchange Format (MXF)
Recording Format	MPEG-2 Long GOP 50Mbps CBR (4:2:2) MPEG-2 422@HL; 35Mbps VBR (4:2:0) MPEG-2 MP@HL; 25Mbps CBR (4:2:0) MPEG-2 MP@H14
Recording Frame Rate	50Mbps: 1920 x 1080/50i, 25p; 1280 x 720/50p, 25p; 35Mbps: 1920 x 1080/50i, 25p; 1280 x 720/50p, 25p; 25Mbps: 1440 x 1080/50i, 25p
Slow/Fast Motion	YES. 720p: 12, 15, 18, 20, 21, 22, 23, 24, 25, 26, 27, 28, 30, 32, 34, 37, 42, 45, 48, 50fps 1080i: 12, 15, 18, 20, 21, 22, 23, 24, 25fps
Interval Record	YES. 2, 6 or 12 frames, 25 time intervals
Frame Record	YES. 2, 6 or 12 frames
Pre Record (cache record)	YES (3 seconds)
Scan Reverse	YES. Up/down, left/right image inversion
Photo Storage Media	SD/SDHC memory card
Still Quality	During video recording: 1920 x 1080; During playback: 1920x1080, 1280 x 720

System	
LCD	
Size	10.1 cm (4")
Dots	1.23 million
Image Quality Adjustments	Brightness, contrast, colour, sharpness, backlight, black & white
Adjustable	Left/right switchable
Waveform Monitor	Waveform Monitor and Vectorscope
Focus Assist	Peaking; Magnifying; Edge Monitor (using waveform display)
Peaking	Peaking 1, Peaking 2 (Colour, Gain, Frequency customisable for each)
Zebra	Level 1; Level 2; Both Output via HD-SDI or HDMI
Markers	On/Off (Aspect ratio, Aspect marker, Select area, Safe area, Grid, Horizontal, Centre)
EVF	
Size	1.3cm (0.52")
Dots	1.55 million
Image Quality Adjustments	Brightness, contrast, colour, sharpness, backlight, black & white
Adjustable	Vertical tilt
Correction Lens	+ 2.0 to -5.5 diopters
Inputs/Outputs	
Audio In	XLR inputs with 48V phantom power x 2
Headphone Output	3.5mm stereo jack
Video Monitor Output	YES (BNC, composite Standard Definition video, output only)
HDMI	YES (Type A, output only)
IEEE 1394 (Firewire)	NO
USB	YES (Mini-B, USB 2.0 Hi-Speed, output only)
HD/SD-SDI Output	Available for XF305 only (BNC, output only, embedded audio and time code)
Time Code	Available for XF305 only (BNC, switchable input/output)
Genlock	Available for XF305 only (BNC, input only)
Component Out	YES (D connector, output only)
AV Terminal	3.5mm mini jack (output only for video and audio)
DC Input	YES
Remote Control Terminal	2.5mm mini jack
Colour Bars	Type 1/Type 2
Misc	
Tally Lamp	YES (x2)
Accessory Shoe	YES (hot shoe, EOS Flash units supported)
Custom Key	YES (13 assignable buttons; select from 30 functions)

Shooting functions	
Exposure	
Exposure Metering	Standard (centre weighted), Spotlight, Backlight
Exposure Range	50 - 100,000 lux
Exposure Compensation	-2 to +2 EV (14 steps)
Auto Exposure mode	Full Auto
Push Auto Iris	Yes
Auto Gain Control setting	Full Auto / AGC On / Manual
Auto Gain Control limit	3dB; 6dB; 9dB; 12dB; 15dB; 18dB; (OFF/21 dB)
Gain Setting	Assignable L, M, H switch positions (-6dB / -3dB / 0dB/ 3dB / 6dB/ 12dB / 18dB / 21dB / 33dB / TUNE (0.5 dB increments from 0 to 21 dB))
Shutter Speed	
Control Modes	3 position switch: OFF (Full Auto) / ON / SEL (Auto; Speed; Angle; Clear Scan (CS); Slow Shutter (SLS))
Shutter speed	1/18 to 1/2000 depending on frame rate
Shutter Angle	11.25° to 360° depending on frame rate
Slow Shutter (SLS)	1/3, 1/6, 1/12, 1/25
Clear Scan	50i/p: 50 to 251.15Hz; 25p: 25 to 251.15Hz
Custom Picture	
Stored Configurations	9
Storage Medium	SD/SDHC memory card (all customisation data and metadata)
Gamma	6 profiles
Master Pedestal	-50 to +50
Master Black	-50 to +50 for each of R,G,B
Black Gamma	Adjustable height width and apex
Low Key Saturation	-50 to +50 adjusts colour saturation in low brightness area
Knee	Adjusts over exposure characteristic, start, slope, saturation
Sharpness	Adjustment for Detail level, Detail frequency, Coring, HV balance, Detail limit, Detail select, Knee aperture and Level dependent sharpness
Noise Reduction	Off, Automatic, On (1 to 8)
Skin Detail	Off, Low, Middle, High / Hue, Chroma, Brightness
Selective Noise Reduction	Off, Low, Middle, High / Hue, Chroma, Brightness
Colour Matrix	-50 to +50 hue and gain R,G,B, in tandem with Gamma selection
White Balance	-50 to +50 white balance offset for R,G,B
Colour Correction	Area selection / area revision of two areas
Setup Level	-50 to +50 On/Off
Clip 100% IRE	Limits output to 100% after setup adjustment
White Balance	
Auto	YES
Preset	A, B, Preset (Daylight, Tungsten)
Time Code	
Countup System	Regen, RecRun, FreeRun, External, Hold
Start value Setting	"00:00:00:00", Set/Reset selectable
Audio	
Recording	16-bit 2ch (48 kHz) linear PCM
Control	Independent limiters and auto/ manual settings
Microphone Attenuation	YES
Microphone Level Meter	YES

Accessories	
Supplied	XF Utility and NLE Plug-ins, Shoulder strap, Eyecup, Component cable DTC-1000, Battery pack BP-955, DC lead DC-930, Compact power adapter CA-930, Wireless controller WL-D6000.
Optional	Wide Attachment WA-H82, Batteries BP-930, BP-945, BP-950G, BP-970G, BP-955, BP-975, Compact Power Adapter CA-920, Compact Car adapter CB-920, Shoulder Brace SBR-1000, Tripod Adapter TA-100, Zoom Remote Control, Video Light VL-10Li II, Tripod Base TB-1.
Battery	
Backup Power Supply	Lithium coin battery (built-in)
Power Consumption	9W
Continuous Recording Time	Supplied BP-955: Optional BP-975:

Miscellaneous	
Dimensions	Approx 180 x 192 x 394 mm
Weight (camera only)	Approx 2700g
Operating Temperature Range	-5°C to +45°C, 60% relative humidity

Errors and omissions excepted.
All images and effects simulated.
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