



Canon XF300
Specification Sheet

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 1080p: 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: 1920 x 1080, 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	NO
Time code	NO
Genlock	NO
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