



Canon XF105
Specification Sheet

Camera	
Image Sensor	
Sensor	1/3 type CMOS
System	Bayer pattern filter
Total pixels per sensor	2.37 megapixels
Effective pixels per sensor	2.07 megapixels
Minimum illumination	Full Auto (24dB gain), 50i/25p: 3.8 lux / 1.9 lux Manual mode (33dB gain), 50i/25p: 1.3lux / 0.7 lux
Horizontal Resolution	900 TV lines or more (1920 x 1080i mode)
Lens	
Zoom ratio	10x
Focal length	4.25 - 42.5mm (35mm equivalent: 30.4 - 304mm)
Minimum focus distance	60cm (throughout zoom range); 20mm (MACRO)
ND filter	Built-in gradation filter (Auto or Off)
Zoom control	Ring, Rocker or Handle; Selectable Shockless Zoom mode
Zoom speed	Zoom Rocker: Variable speed/Fixed speed (Fast/Normal/Slow, 16 speed level settings available in each mode); Handle zoom: Fixed speed (Fast/Normal/Slow, 16 speed level settings available in each mode)
Focus control	Ring control or automatic (Instant AF, Medium AF, TV AF, Face Detection AF, Face Only AF)
Iris control	Ring control; Custom dial control; Full Auto
Aperture range	f1.8 - f22
Filter diameter	58mm
Lens elements/groups	12/10
Image stabilization system	Optical lens shift system (angle & vector movement detection); 3 modes: Dynamic, Standard, Powered
Digital zoom	1.5x; 3x; 6x
Image Processor	
Type	DIGIC DV III
Recording	
Video storage media	Type 1 Compact Flash memory cards (2 card slots); Double slot (simultaneous) recording possible.
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 422P@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, up/down/left/right image inversion
Photo storage media	SD/SDHC/SDXC memory card
Still quality	During video recording: 1920 x 1080; During playback: 1920x1080, 1280 x 720

System	
LCD	
Size	8.8cm (3.5")
Dots	920,000
Image quality adjustments	Brightness, contrast, colour, sharpness, backlight, black & white
Adjustable	Yes (270 degree rotation about horizontal axis)
Waveform Monitor	Waveform Monitor
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, Safe area, Grid, Horizontal, Centre)
EVF	
Size	0.61 cm (0.24")
Dots	260,000
Image quality adjustments	Brightness, contrast, colour, backlight, black & white
Adjustable	Vertical tilt
Correction lens	+ 2.0 to -5.5 diopter
Inputs/Outputs	
Audio in	XLR inputs with 48V phantom power (x2)
Headphone output	3.5mm stereo jack
Video monitor output	NO
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	YES (BNC, output only, embedded audio and time code)
Time code	YES (BNC, switchable input/output, same terminal used for Genlock)
Genlock	YES (BNC, input only, same terminal used for Time code)
Component out	YES (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 (EBU/SMPTE)
Misc	
Tally lamp	YES (x2)
Accessory shoe	YES (cold shoe)
Custom key	YES (10 assignable buttons; select from 34 functions)
Custom Dial	YES (Iris, teleconverter, headphone volume, Face AF, IR Lamp control)
Shooting functions	
Exposure	
Exposure metering	Standard (centre weighted), Spotlight, Backlight
Exposure range	50 - 100,000 lux
Exposure compensation	-2 to +2 EV (13 steps)
Auto Exposure mode	Full Auto
Push Auto Iris	No
Auto Gain Control setting	Full Auto / AGC On / Manual
Auto Gain Control limit	3dB; 6dB; 9dB; 12dB; 15dB; 18dB; 21dB (OFF/24 dB)
Gain setting	Assignable L, M, H settings (-6dB / -3dB / 0dB/ 3dB / 6dB/ 12dB / 18dB / 24dB / 33dB / TUNE (0.5 dB increments from 0 to 24 dB))
Shutter speed	
Control Modes	Full Auto / Manual joystick control (Auto; Speed; Angle; Clear Scan (CS); Slow Shutter (SLS); IR Slow Shutter)
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 (depending on frame rate)
Clear Scan	50i/p: 50 to 249.46Hz; 25p: 25 to 249.46Hz

Infrared	
Infrared shooting mode	YES (green or white)
Built-in IR lamp	YES
3D Shooting Assist	
OIS Axis Shift	YES
Focal Length Guide	YES
Custom Picture	
Stored Configurations	9 (3 factory presets)
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 (Automatic, Slope, Point, Saturation)
Sharpness	Adjustment for Detail level, Detail frequency, Coring, HV balance, Detail limit, Knee Aperture, Level Depend, Ingredient Ratio
Noise reduction	Off, Automatic, On (1 to 8)
Skin detail	Effect Level (Low, Middle, High), Hue, Chroma, Area, Y Level
Selective Noise Reduction	Effect Level (Low, Middle, High), Hue, Chroma, Area, Y Level
Colour matrix	-50 to +50 6-way matrix, Gain, Phase
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
Press	On / Off
Clip 100% IRE	Limits output to 100% after setup adjustment
White balance	
Auto	YES
Preset	A, B, Preset (Daylight, Tungsten), Colour Temperature
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	Audio limiter, Auto/manual settings via control dials on handle
Microphone attenuation	YES
Microphone level meter	YES
Accessories	
Supplied	XF Utility and NLE Plug-ins, Shoulder strap, Component cable CTC-100/S, Battery pack BP-925, DC cable DC-930, Compact power adapter CA-930, Wireless controller WL-D6000.
Optional	Wide Converter WD-H58W, Teleconverter TL-H58, Batteries BP-930, BP-945, BP-950G, BP-970G, BP-955, BP-975, Compact Power Adapter CA-920, Compact Car adapter CB-920, DC Coupler DC-920, Shoulder Brace SBR-1000, Tripod Adapter TA-100, Zoom Remote Control ZR-2000, Video Light VL-10Li II, Tripod Base TB-1.
Battery	
Backup power supply	Lithium coin battery (built-in)
Miscellaneous	
Dimensions	Approx 139 x 191 x 268mm (including lens hood and microphone holder)
Operating Temperature range	-5°C to +45°C, 60% relative humidity

All specifications are subject to change without notice