



Canon XF305
Specification Sheet

| Camera | |
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| 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) |

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| 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 | YES (BNC, output only, embedded audio and time code) |
| Time code | YES (BNC, switchable input/output) |
| Genlock | YES (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 |

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| 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 |