

Canon EOS 5D Mark II vs Nikon 700D vs Sony A900 [September 22, 2008]

	Canon EOS 5D Mark II	Nikon D700	Sony A900
Body construction	Stainless steel chassis, magnesium alloy body	Magnesium alloy body	Magnesium alloy chassis, high grade plastic body
Sensor Size/Type:	36 x 24 mm CMOS	36.0 x 23.9 mm CMOS	35.9 x 24.0 mm CMOS (Exmor)
Effective Pixels:	21.1 megapixels	12.1 megapixels	24.6 megapixels
A/D Resolution Power:	14-bit	12/14-bit	Dual BINOZ processor
Colour Filter:	RGB Primary Colours	RGB Primary Colours	RGB Primary Colours
Dust Removal System	Auto, Manual, Dust Delete Data appending	Vibration of low-pass filter in front of sensor, Image Dust Off reference data acquisition (Capture NX 2 required)	Anti-static coating + image sensor vibration
Recording Media:	CF Type I, II, single slot	CF Type I, single slot; UDMA compliant	Dual slot: Memory Stick Duo + CF Type I, II
Image Sizes:	5616 x 3744, 4080 x 2720, 2784 x 1856, 1728 x 1152; RAW - 5616 x 3744; sRAW - 3861 x 2574; sRAW2 - 2784 x 1856	FX-format: 4256 x 2832, 3184 x 2120, 2128 x 1416; DX-format 2,784 x 1,848, 2,080 x 1,384, 1,392 x 920]	6048 x 4032, 4400 x 2396, 3024 x 2016; 3924 x 2656, 2896 x 1928, 1984 x 1320
File Formats:	CR2.RAW (5616 x 3744), sRAW (3861 x 2574, 2784 x 1856), JPEG, RAW+JPEG	NEF (RAW), TIFF, JPEG, RAW+JPEG	ARW (RAW), JPEG, RAW+JPEG
Colour Space:	sRGB, Adobe RGB	sRGB, Adobe RGB	sRGB, Adobe RGB
Picture Style/Control settings:	Standard, Portrait, Landscape, Neutral, Faithful, Monochrome, User Def. 1-3	Standard, Neutral, Vivid, Monochrome (individually adjustable)	Standard, Vivid, Neutral, Clear, Deep, Light, Portrait, Landscape, Sunset, Night view, Autumn leaves, B&W, Sepia, Adobe RGB
Automatic image brightness correction	Auto Lighting Optimiser	Active D-Lighting	Dynamic Range Optimiser (with bracketing)

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Viewfinder:	Eye-level pentaprism; 98% coverage (vertical/horizontal); 0.71x magnification; 21mm eyepoint	Eye-level pentaprism; 95% coverage; approx. 0.94x magnification; 18mm eyepoint	Eye-level pentaprism; 100% frame coverage; approx 0.74x magnification; 20mm eye relief
Dioptric Adjustment:	-3 to +1 dpt	-3.0 to +1 dpt	-3 to +1 dpt
Interchangeable Focusing Screens:	Yes	no	Yes
Viewfinder Information	AF points, focus confirmation, shutter speed, aperture, AE lock, exposure level, exposure compensation, ISO setting, exposure warnings, flash ready, red-eye reduction, high-speed sync, FE lock, flash exposure compensation, WB correction, AEB, B&W mode, maximum burst, CF card status	Framing grid, AF points, AF area, battery status, focus confirmation, metering, AE lock, shutter speed, aperture, exposure mode, flash compensation, exposure level, exposure compensation, ISO setting, remaining shots counter, flash ready, FV lock, flash sync indicator, analog exposure display	AF points, focus confirmation, 16:9 aspect ratio marks, shutter speed, aperture, AE lock, exposure level, exposure compensation, camera shake warning, flash ready, flash compensation, wireless/high-speed sync, remaining shots counter
Autofocus System:	TTL secondary image-registration, phase detection	TTL phase detection with Nikon MultiCAM 3500DX module	TTL phase detection using CCD line sensors
AF Points:	9 (Cross-type) plus 6 Assist AF points; auto/manual selection	51 (15 cross-type sensors); single point selection from 51 or 11 points	Central cross-type sensor plus 10 assist AF points
Focus Modes:	One-Shot AF, AI Servo AF, AI Focus AF, Manual focusing (MF); AF micro-adjustment possible	Single-servo AF, continuous-servo AF, manual focusing; predictive focus tracking automatically activated in continuous AF mode	Single-shot, Automatic AF, Continuous AF, Manual focusing; AF micro focus adjustment (+/- 20 steps for up to 30 lenses)
AF Assist	Small series of flashes fired by EOS-dedicated external Speedlite	Dedicated lamp (range 0.5 to 3.0 metres)	Dedicated LED lamp (range 1.0 to 7.0 metres)

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Metering Modes:	35-zone TTL full-aperture metering Evaluative metering (linkable to any AF point) Centre-weighted average metering Partial metering (approx. 8% of viewfinder at centre) Spot metering (approx. 3.5% of viewfinder at centre)	TTL full-aperture metering with 1005-pixel RGB sensor 3D Colour matrix Metering II Centre-weighted (6-13 mm circle at centre) Spot metering (1.5% of frame)	TTL full-aperture metering with 40-segment honeycomb pattern SPC sensor Multi-segment, Centre-weighted and Spot metering
Exposure Control:	Auto, Program AE (Full Auto, Creative Auto, Program), Shutter-priority AE, Aperture-priority AE, Manual, Bulb	Program AE, Shutter-priority auto, Aperture-priority auto, Manual	Auto, Program AE (with program shift), Shutter-priority, Aperture-priority, Manual, memory recall, Custom
ISO Speed Range:	ISO 100-3200 (expandable to ISO 50 (L) and ISO 12,800 (H1) or ISO 25,600 (H2))	ISO 200-6400 (expandable to ISO 100 and ISO 25,600)	ISO 200-3200 (expandable to 100 and 6400)
Exposure Compensation:	±2 stops in 1/3- or 1/2-stop increments (can be combined with AEB)	+/- 5 EV in increments of 1/3, 1/2 or 1 EV	+/- 3 EV in increments of 0.3 or 0.5 EV
Shutter Speed:	1/8000 to 30 sec. (1/3- and 1/2-stop increments), bulb, X-sync at 1/200 sec.	1/8000 to 30 sec in steps of 1/3, 1/2 or 1 EV plus Bulb; X-sync at 1/250 sec.	1/8000 to 30 sec plus Bulb; X-sync at 1/250 sec. (Super Steady Shot off) or 1/200 sec. (Super Steady Shot on)
Shutter rating	150,000 cycles		
Max. Burst speed	3.9 frames/second	5 frames/second	5 frames/second
Maximum burst:	JPEG (Large/Fine): approx. 78; RAW: approx 13; RAW+JPEG large/fine: 8	JPEG (Fine): up to 17 (FX) or 23 (DX); RAW: 23 (FX), 65 (DX)	JPEG (Fine): 105; RAW: 12 frames
Self-timer:	10-sec. or 2-sec. delay	2, 5, 10 or 20 sec. delay	2 or 10 sec delay
Built-in Flash	no	Yes, GN 17 (ISO 200 in metres)	no
Flash Exposure Compensation:	±2 stops in 1/3- or 1/2-stop increments	-3 to +1 EV in increments of 1/3, 1/2 or 1 EV	+/- 3 EV in increments of 0.3, 0.5, 0.7, 2.0 EV

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White Balance:	Auto, Preset (Daylight, Shade, Cloudy, Tungsten light, White fluorescent light, Flash), Custom, Colour temperature setting (2500-10000K); White balance correction and white balance bracketing features provided	Auto plus seven manual modes with fine-tuning, colour temperature setting; bracketing of 2 to 9 exposures in increments of 1, 2 or 3	Auto, Daylight, Shade, Cloudy, Tungsten, Fluorescent, Flash; Colour Temperature, Custom (3 memories) with fine-tuning; colour temperature adjustment 19 steps of green/magenta
Noise reduction:	Applicable to long exposures and high ISO speed shots	Applicable to long exposures and high ISO speed shots	Applicable to long exposures and high ISO speed shots
LCD Monitor:	3.0-inch TFT colour LCD; 920,000 pixels	3.0-inch TFT colour LCD, 920,000 pixels	3.0-inch TFT colour LCD, 921,600 dots
Live View focusing:	Quick mode (Phase-difference detection) Live mode, Live face detection mode (Contrast detection) Manual focusing (5x/10x magnification possible)	1) Handheld: TTL phase difference AF with 51 focus points 2) Tripod: focal-plane contrast AF on selected point	Live View not supported
Video recording	1920x1080 (Full HD), 640x480 (SD); MOV (Video: H.264, Audio: Linear PCM)	n.a.	n.a.
Image Playback:	Single, Single + Info (Image-recording quality, shooting information, histogram) 4-image index, 9-image index, image rotate possible; highlight alert available	Full frame, thumbnail (4 or 9 segment), zoom, slideshow, RGB histogram, shooting data, highlight point display, auto image rotation, image comment (up to 36 characters)	Full frame, 4. 9 or 25 frame index (4 or 25 segments), zoom, slideshow, RGB histogram, shooting data, highlight point display, auto image rotation
Custom Functions:	Total 25: My Menu registration provided	50	15 functions controllable

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Via Remote Control:	N3 type terminal (RC-1/RC-5 controller)	10-pin terminal	Wireless supplied (wired optional)
Terminals:	USB 2.0 Hi-Speed, Video Out (PAL/NTSC); HDMI (Type C mini out, auto switching of resolution)	USB Hi-speed, HDMI (Type C mini), Video Out (PAL/NTSC), GPS, 10-pin remote	HDMI (type C minijack), USB 2.0 Hi-speed, Video Out (PAL/NTSC), remote control
Battery:	Single battery pack (LP-E6), approx. 850 shots/charge	EN-EL3e battery pack; approx. 1000 shots/charge	NP-FM500H (7.2 v); approx. 880 shots/charge
Wireless file transmission:	Supported (via WFT-E4/E4A transmitter)	Supported (via WT-4 transmitter)	Supported (with included remote control)
Dimensions (w x d x h)	152 x 113.5 x 75 mm	147 x 1234 x 77 mm	156 x 117 x 82 mm
Weight:	Approx. 810 grams (body only)	Approx. 995 grams	Approx. 850 grams (body only)