



PUSHING THE LIMITS

16.2 MEGAPIXEL FX-FORMAT CMOS SENSOR







Image Sensor



Newly Developed Nikon FX CMOS Sensor - 36.0mm x23.9mm

16.2 Million Effective Pixels - Total pixels 16.6MP

Lo1 (ISO 50 Equivalent) - Base ISO 100 (normal range)

Hi 4 (ISO 204,800 Equivalent) - Hi ISO 12,800 (normal range)

Live View supported

Full HD video supported

Up to 11fps - 10fps with AF/AE







EXPEED 3 Image Processing

Significantly faster than D3S - Able to process information almost instantly

Superb noise reduction

- Cleaner movie files even in very high ISO settings
- Noise reduction and Active D-light have been improved with better algorithms







Redesigned Advanced Multi-cam 3500 FX

51 AF points

- -15 Cross hair points in the centre
- Faster acquisition time
- Improved subject tracking

Improved lowlight performance

- Now operates in very low light (-2EV) enabling use even under moonlight

Redesigned AF switch

- Photographer doesn't need to take their eye away from the viewfinder to switch modes

Impossible to select conflicting options - Conflicting options cant be chosen









3D Colour Tracking







Auto Area

51 Point Tracking





Single Point

9 Point Tracking



21 Point Tracking







| Lens | TC-I4E II | TC-I7E II | TC-20E III |
|--------------|---------------------|-----------------------|---------------------|
| 600mm f4 | 840mm f5.6 | I020mm f6.7 | I 200mm f8 |
| | all 51 focus points | I5 points and 9 cross | I I points I cross |
| 500mm f4 | 700mm f5.6 | 850mm f6.7 | 1000mm f8 |
| | all 51 focus points | I5 points and 9 cross | 11 points 1 cross |
| 200-400mm f4 | 280-560mm f5.6 | 340-680mm f6.7 | 400-800mm f8 |
| | all 51 focus points | I5 points and 9 cross | I I points I cross |
| 400mm f2.8 | 560mm f4 | 680mm f4.8 | 800mm f5.6 |
| | all 51 focus points | all 51 focus points | all 51 focus points |
| 300mm f2.8 | 420mm f4 | 510mm f4.8 | 600mm f5.6 |
| | all 51 focus points | all 51 focus points | all 51 focus points |
| 200mm f2 | 280mm f2.8 | 340mm f3.3 | 400mm f4 |
| | all 51 focus points | all 51 focus points | all 51 focus points |
| 70-200 f2.8 | 98-280mm f4 | I 19-340mm f4.8 | 140-400mm f5.6 |
| | all 51 focus points | all 51 focus points | all 51 focus points |





Advanced Scene Recognition System

3D Colour Matrix Metering III

New 91k pixel metering sensor - Metering per pixel

Linked communication

- Image, Metering and Focus system all communicate with each other

Improved subject detection/tracking
 - 3D Colour Focus Tracking, face detection, white balance, auto AF



Increased resolution and processing allow for unrivalled accuracy in difficult shooting conditions; the ability to recognise faces within the frame results in the subject being better exposed, even with a backlit background.



With conventional model



D4 with face detection information applied





Ergonomics





DBBS

Ergonomics



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New AF control switches - Aids quick repositioning of AF point

Vertical shooting improved

- Control layout is mirrored for improved ergonomics in both landscape and portrait shooting

AF point automatically moves with orientation

- Focus point moves as camera is tilted to landscape or portrait











Vertical Function button

Re-designed shutter button positioning







New 3.2-in. LCD monitor

Vastly improved colour range which is very close to sRGB
921k-dot resolution

Automatic brightness control

- A sensor automatically adjusts the brightness, contrast, saturation and gamma depending upon the ambient conditions

LCD integrated glass and panel

- Improves the viewing angle and decreases light loss by using a resin between the glass and screen

nd

Movie Modes







Full HD 1920x1080p at 30/25/24 fps

Slow motion 60/50 fps in 1280x720p

Microphone in port - 20 adjustment levels and Auto

Headphone out port - 30 volume levels

Visual sound level monitoring

29 min. 59s maximum record time

200 - 204,800 ISO (equivalent) selectable







Manual exposure control

Index Marking - Index data is recorded to assist with editing

Power aperture

- Available in A and M modes for smooth and quiet adjustment

Remote start/stop (via ten-pin & PC connection)

Live frame grab

- 2MP still image can be saved without stopping the recording









H.264 compression using B Frame compression data

Clean HDMI out at 1080/720 - Offering the live view feed without compression

Dual video out

- When shooting in 1280x720p both video out and HDMI out are possible

Time-lapse

- The D4 not only includes a time-lapse function but will also encode the file for immediate playback











Multiple frame sizes FX, DX and a pixel matched 1920x1080

| Format | Focal Length (to match framing) | DOF at 3m f2.8 |
|-------------|------------------------------------|----------------|
| FX | 50 mm | 0.6m approx |
| DX | 33 mm | I.5m approx |
| 1920 × 1080 | 18.5 mm | 10.5m approx |



1920EX1080

Improved image workflow





Improved image workflow



PTC can be added in camera - 14 fields available and 10 presets

Wired Lan port built in - Supports10 BaseT / 100 Base TX

Improved network set-up wizard - FTP and PC control - New HTTP Mode

GPS adapter GP-1 compatible - Can be set to update internal clock from GPS signal





New WT-5 wireless transmitter

Supports 802.11 a/b/g/n - Works with infrastructure and Ad-hoc networks

Linked release mode - Up to 10 remote units can be triggered simultaneously

New HTTP mode supported - FTP and PC control also available

WT-4 also supported



Just one more thing.....

Just one more thing.....





iPhone

iPhone and iPad compatibility

Remote control of:

- Shutter
- Shooting modes P,S,A,M
- Live View
- ISO
- Focus modes
- Metering
- White Balance
- File format
- Focus position
- Movie start/stop

Remote viewer

- Browse
- Slideshow
- Download





Further features





Newly developed shutter mechanism



Tested to 400,000 cycles

- Release time lag of 0.042sec (based on CIPA Guidelines)

Power saving design

- Re-designed to drain minimal power during live view / movie operation

Faster shooting operation in Live View - The new design allows for a quicker return to live view after taking a picture

Improved battery performance

- Despite a lower capacity battery the D4 out performs the D3S in continuous mode (approx 5,500 - approx 2,600 in single frame mode CIPA standard)













Two Axis Virtual Horizon Can be displayed on LCD or via Viewfinder



Viewfinder





Dual card memory slotsOne for CF and one for XQD

Compatible with UDMA 7 CF cards

New XQD memory

- Announced by Compact Flash Association as the advancement of CF cards

Simultaneous recording

- Overflow, Backup, RAW/JPEG, Copying and Movie recording selectable



Super high speed data transfer - 125MB/s the fastest in the industry

| Camera / Card | RAW (compressed) | JPEG Large Fine |
|----------------|-------------------------------|-----------------------------|
| D4/XQD | 98 shots (approx. 10 sec) | 170 shots (app 17 sec) |
| D4/UDMA 7 | 79 shots (approx. 8 sec) | I 30 shots (app I 3 sec) |
| D3S/Extreme IV | 43 shots (approx. 4.3 sec) | 82 shots (app 9.1 sec) |



DQQ Summary



Picture quality:

- -Newly developed Nikon FX-format CMOS sensor [NEW]
- -Effective pixels: 16.2 million (recording pixels: 16.2 million) [NEW]
- -Wide sensitivity range of ISO 100 to 12800
- Can be decreased down to ISO 50 equivalent (Lo 1), or increased up to ISO 204800 equivalent (Hi 4) [NEW] -Further improved image-processing engine EXPEED 3 [NEW]
- -Advanced Scene Recognition System [NEW] enhanced with the new 91K-pixel RGB sensor []
 - Face detection prior to exposure possible even in viewfinder shooting \Rightarrow can be applied to exposure control and Auto-area AF [NEW]
 - 3D color matrix metering III achieves highly accurate metering based on face detection information [NEW] Improved subject tracking performance in 3D-tracking with finer subject acquisition
- -Rich gradation equivalent to current models achieved while increasing the compression ratio of compressed RAW files [NEW] -Active D-Lighting employs a new option "Extra high 2" ("Extra high" is now designated as "Extra high 1") [NEW] -HDR (High Dynamic Range) combines images to produce a single image with a wider dynamic range -Auto option is added to "Minimum shutter speed" in "Auto ISO sensitivity control" menu [NEW]

- -Refined white balance control
 - Choice of steps in color temperature setting [NEW] Finer setting in 10-Kelvin steps possible
 - White balance setting possible in the monitor [NEW] Minimizes the difference in color reproduction between resulting image using flash and monitor image, that is likely to occur in live view

Newly setting is added that enables exposure compensation in flash shooting to be applied to background brightness only [NEW]


High-speed performance

- -Advanced AF system featuring 51 focus points
 - Advanced Multi-CAM 3500FX autofocus sensor module
 - Improved performance in subject acquisition/tracking even in low-light conditions

 - Refined operation in focus point, AF mode and AF-area mode selection
 - Improved operability
- -11 focus points in the central area are compatible with f/8 [NEW]
- -Contrast-detect AF with improved operability, accuracy and speed (in live view/movie recording)
- -Quick response with approx. 0.12 s* startup time and approx. 0.042 s* shutter-release time lag * Based on CIPA Guidelines
- * Based on CIPA Guidelines
- -Greatly increased number of images taken in continuous shooting [NEW]
- Dual card slots one for CF card, one for new memory card [NE]
- -Higher workflow speed of photographers [NEW]
 - Wired LAN function incorporated in the body [NEW]
 - Wireless Transmitter WT-5A/B/C/D [NEW]/WT-4A/B/C/D/E (both optional) supported
- -Wired LAN transmission capability besides wireless LAN support
- -New shutter/mirror/diaphragm drive mechanism to support high-speed operation [NEW]

• Higher AF speed is achieved with new lens drive algorithm and AF drive that is activated even during shutter release

-High-speed continuous shooting at approx. 11 fps* (without AE/AF) or 10 fps* (with AE/AF) in FX format [NEW]

• XQD memory card realizes approx. 100 shots in continuous shooting for compressed RAW (12 bit) images



Superior operability

- -Glass pentaprism viewfinder with approx. 100% frame coverage and approx. 0.7x magnification
- -Approx. 921k-dot, wide-viewing angle, 8-cm/3.2-in. LCD monitor with reinforced glass
 - Automatic monitor brightness control with ambient brightness sensor
 - Easier-to-use live view functions

 - tracking AF available
 - Silent shutter-release option makes the shutter release virtually noise-free in live view photography
- -Four types of image area: FX format, DX format, 5:4, 1.2x (same as D3S)
- -Improved grip holding, inclined shutter-release button and flat design of the power switch
- operation [NEW]
- -Picture Control button (doubles as Protect/Help button) enables direct setting of Picture Control *[NEW]*
- -Two-axis Virtual Horizon can be displayed on LCD monitor and in viewfinder [NEW]
- -Lightweight body further enhances mobility [NEW]
- Illuminated icons of controls ensure better visibility in dark situations *INE*

Live view button: enables start/stop of still image live view and movie Live View
LV (live view) selector: selects still image live view or movie live view [NEW]
Contrast-detect AF possible: AF-S/AF-F (full-time-servo AF), face-priority AF/subject-

-"Sub-selector" for horizontal shooting and "Multi selector for vertical shooting" are newly employed for efficient



Reliability

- speed up to 1/8000 s, flash synchronization up to 1/250 s [NEW]
- -Light and rugged magnesium alloy body; dust/water-drop resistance (equivalent to D3S)
- -Thermal shield finish is applied to the viewfinder to restrain temperature rise on body surface [NEW]
- and approx. 5,500 shots^{*2} (with EN-EL18, in Continuous mode)

*1 Based on CIPA Standards *2 Under Nikon's test conditions

-Newly developed shutter unit with excellent durability proved by 400,000 cycles of shutter release testing; shutter

-Highly efficient energy-saving design that achieves approx. 2,600 shots^{*1} (with EN-EL18, in Single-frame mode),



Full HD movie recording

- Multi-area mode Full HD D-Movie [NEW]
- Image size of movie can be selected from 3 options according to image area format
- New format [1,920 x 1,080 crop] [NEW]
 - Selectable frame rate from 30p/25p/24p (1,920 x 1,080p), 60p/50p/30p/25p (1,280 x 720p), 30p/25p (640 x 424p), 30p/25p/24p (1,920 x 1,080 crop) [NEW]

 - Contrast-detect AF: AF-S/AF-F (full-time-servo AF), face-priority AF/subject-tracking AF available
 - External stereo microphone compatible
 - Sound level monitor function [NEW]
 - Increased number of steps in manual setting of microphone sensitivity: up to 20 steps [NEW]
 - Headphone connector incorporated [NEW]
 - Improved operability in movie editing [NEW]
- Start/end points can be set simultaneously [NEW]; selected frames can be saved as still images
 - Custom setting for movies *[NEW]*
- Power aperture/Index marking/Live frame grasp/On-screen display of still image
 - Improved image quality of movies
- MPEG-4 AVC/H.264 compression format and movie noise reduction function enhance movie image quality
- - Time-lapse photography function [NEW]

- Full HD 1,920 x 1,080/30p supported: outstanding image quality in Full HD 1,080p size with rich gradation – Max. recording time of approx. 29 min. 59 s achieved with high compression and high image quality

- Smooth recording start by pressing "Movie-record button", located next to the shutter-release button [NEW] - ISO sensitivity range: ISO 200 to 12800 in standard setting; can be set to ISO 204800 equivalent (Hi 4) [NEW]

• Setting flicker reduction to "Auto" decreases differences in metering and AWB between live view monitor image and resulting image [NEW]





Enhanced retouch menus

- -Vignette control and D-Lighting available in NEF (RAW) processing
- -Straighten, Distortion control, Perspective control are employed

HDMI output supported

- -HDMI mini connector employed
- -Enables live view shooting while confirming images on HDTV [NEW]
- -Images can be recorded in external hard disk connected with HDMI during live view shooting [NEW]

-Functions of the D3S are inherited: D-Lighting, Red-Eye Correction, Trim, Monochrome, Filter effects, Color balance, Image overlay, NEF (RAW) processing, Resize, Movie editing (choose start/end point/save selected frame)



| | Nikon D4 | Nikon D3S |
|---------------------------|--|--|
| Image sensor | 36.0 x 23.9 mm, CMOS | 36.0 x 23.9 mm, CMOS |
| Effective pixels | Approx. 16.2 million | Approx. 12.1 million |
| Image-processing engine | EXPEED 3 | EXPEED |
| ISO sensitivity | ISO 100 to 12800, Lo 1, Hi 1, 2, 3, 4 | ISO 200 to 12800, Lo 1, Hi 1, 2, 3 |
| AE | 91K-pixel RGB sensor (Advanced Scene Recognition System) | 1005 pixel |
| Phase-detection AF | 51 points (15 cross-type sensors; 11 sensors compatible with f/8: five central focus points and three points to the left and right of them in the middle line [with f/8, center point performs as a cross sensor, other points perform as line sensors]) | 51 points (15 cross-type sensors; compatible with a maximum aperture of f/5.6 |
| Continuous shooting | Approx. 11 fps (without AE/AF) Approx. 10 fps (with AE/AF) Maximum number of shots: 200 | FX, 1.2x, 5:4: Approx. 9 fps (with AE/AF) DX: Approx. 11 fps (without AE/AF) Maximum number of shots: 130 |
| Movie | H.264, Contrast-detect AF, 1,920 x 1,080/30p support, Multi-area mode Full HD D-Movie, external microphone connector, 29 min. 59 s max. recording time (full HD), headphone connector | Motion-JPEG, Contrast-detect AF, 1,280 x 720/24p support, external microphone connector, his sensitivity movie mode (ISO 6400 to Hi 3 [ISO 102400-equivalent]) |
| Live View | Yes; Contrast-detect AF (Face-priority AF/subject-tracking AF) | Yes; Contrast-detect AF |
| Image editing | Active D-Lighting, HDR, Picture Control, variety of retouch menus | Active D-Lighting, Picture Control, variety of retouch menus |
| Viewfinder frame coverage | Approx. 100% | Approx. 100% |
| LCD monitor | 8-cm/3.2-in, approx. 921k-dot, LCD monitor | 7.6-cm/3.0-in, approx. 921k-dot LCD |
| Card slots | Dual card slots for CF card + new memory card | CF card + CF card |
| Others | Shutter tested to 400,000 cycles (with the unit actually loaded), higher-speed workflow | Shutter tested to 300,000 cycles |
| Weight (approx.) | 1,180 g/2 lb 9.6 oz (body only), 1,340 g/2 lb 15.3 oz (with batteries)* | 1,240 g/2 lb 12 oz (body only) |
| Sales start | February 2012 (planned) | December 2008 |
| | | |



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| Continuous shootingApprox: 10 fps (with AEIAF) Maximum number of shots: 200DX: Approx: 11 fps (without AEIAF) Maximum number of shots: 300MovieH_264, Contrast-detect AF, 1.920 x 1.080/30p support, Multi-area mode Full HD D-Movie, external microphone connector, 29 min. 59 s max: recording time (full HD), headphoneMotion-JPEG, Contrast-detect AF, 1.280 x 720/24p support, external microphone connector, bit sensitivity movie mode (ISO 6400 to Hi 3 (ISO 702400-equivalent))Live ViewYes; Contrast-detect AF (Face-priority AF/subject-tracking AF)Yes; Contrast-detect AFImage editingActive D-Lighting, HDR, Picture Control, variety of retouch menusActive D-Lighting, Picture Control, variety of retouch menusViewfinder frame coverageApprox. 100%Approx. 100%Approx. 100%LCD monitorB-cm/3.2-in, approx. 921k-dot, LCD monitor7.6-cm/3.0-in, approx. 921k-dot, LCDCard slotsDual card slots for CF card + new memory cardCF card + CF cardOthersShutter tested to 400.000 cycles (with the unit actually loaded), higher-speed workflowshutter tested to 300,000 cyclesWeight (approx.)1,180 g/2 lb 9.6 oz (body only), 1,340 g/2 lb 15.3 oz (with batteries)*1,240 g/2 lb 12 oz (body only) | Phase-detection AF | three points to the left and right of them in the middle line [with f/8, center point performs as a | 51 points (15 cross-type sensors; compatible with a maximum aperture of f/5.6 |
| Movie external microphone connector, 29 min. 59 s max. recording time (full HD), headphone without PSPES contrast-detect AF (1260 X 720/240 Support) external microphone connector, 29 min. 59 s max. recording time (full HD), headphone without PSPES contrast-detect AF (1260 X 720/240 Support) external microphone connector, 29 min. 59 s max. recording time (full HD), headphone Live View Yes; Contrast-detect AF (Face-priority AF/subject-tracking AF) Yes; Contrast-detect AF Image editing Active D-Lighting, HDR, Picture Control, variety of retouch menus Active D-Lighting, Picture Control, variety of retouch menus Viewfinder frame coverage Approx. 100% Approx. 100% Approx. 100% LCD monitor &-cm/3.2-in, approx. 921k-dot, LCD monitor 7.6-cm/3.0-in, approx. 921k-dot LCD Card slots Dual card slots for CF card + new memory card CF card + CF card Others Shutter tested to 400,000 cycles (with the unit actually loaded), higher-speed workflow Shutter tested to 300,000 cycles Weight (approx.) 1,180 g/2 lb 9.6 oz (body only), 1.340 g/2 lb 15.3 oz (with batteries)* 1,240 g/2 lb 12 oz (body only) | Continuous shooting | Approx. 10 fps (with AE/AF) | FX, 1.2x, 5:4: Approx. 9 fps (with AE/AF) DX: Approx. 11 fps (without AE/AF) Maximum number of shots: 130 |
| Index editingActive D-Lighting, HDR, Picture Control, variety of retouch menusActive D-Lighting, Picture Control, variety of retouch menusViewfinder frame coverageApprox. 100%Approx. 100%LCD monitor8-cm/3.2-in, approx. 921k-dot, LCD monitor7.6-cm/3.0-in, approx. 921k-dot LCDCard slotsDual card slots for CF card + new memory cardCF card + CF cardOthersShutter tested to 400,000 cycles (with the unit actually loaded), higher-speed workflowShutter tested to 300,000 cyclesWeight (approx.)1,180 g/2 lb 9.6 oz (body only), 1,340 g/2 lb 15.3 oz (with batteries)*1,240 g/2 lb 12.0z (body only) | Movie | external microphone connector, 29 min. 59 s max. recording time (full HD), headphone | Motion-JPEG, Contrast-detect AF, 1,280 x 720/24p support, external microphone connector, hig sensitivity movie mode (ISO 6400 to Hi 3 [ISO 102400-equivalent]) |
| Viewfinder frame coverageApprox. 100%Approx. 100%LCD monitor&-cm/3.2-in, approx. 921k-dot, LCD monitor7.6-cm/3.0-in, approx. 921k-dot LCDCard slotsDual card slots for CF card + new memory cardCF card + CF cardOthersShutter tested to 400,000 cycles (with the unit actually loaded), higher-speed workflowShutter tested to 300,000 cyclesWeight (approx.)1,80 g/2 lb 9.6 oz (body only), 1,340 g/2 lb 15.3 oz (with batteries)*1,240 g/2 lb 12 oz (body only) | Live View | Yes; Contrast-detect AF (Face-priority AF/subject-tracking AF) | Yes; Contrast-detect AF |
| LCD monitor8-cm/3.2-in, approx. 921k-dot, LCD monitor7.6-cm/3.0-in, approx. 921k-dot LCDCard slotsDual card slots for CF card + new memory cardCF card + CF cardOthersShutter tested to 400,000 cycles (with the unit actually loaded), higher-speed workflowShutter tested to 300,000 cyclesWeight (approx.)1,180 g/2 lb 9.6 oz (body only), 1,340 g/2 lb 15.3 oz (with batteries)*1,240 g/2 lb 12 oz (body only) | Image editing | Active D-Lighting, HDR, Picture Control, variety of retouch menus | Active D-Lighting, Picture Control, variety of retouch menus |
| Card slotsDual card slots for CF card + new memory cardCF card + CF cardOthersShutter tested to 400,000 cycles (with the unit actually loaded), higher-speed workflowShutter tested to 300,000 cyclesWeight (approx.)1,180 g/2 lb 9.6 oz (body only), 1,340 g/2 lb 15.3 oz (with batteries)*1,240 g/2 lb 12 oz (body only) | Viewfinder frame coverage | Approx. 100% | Approx. 100% |
| Others Shutter tested to 400,000 cycles (with the unit actually loaded), higher-speed workflow Shutter tested to 300,000 cycles Weight (approx.) 1,180 g/2 lb 9.6 oz (body only), 1,340 g/2 lb 15.3 oz (with batteries)* 1,240 g/2 lb 12 oz (body only) | LCD monitor | 8-cm/3.2-in, approx. 921k-dot, LCD monitor | 7.6-cm/3.0-in, approx. 921k-dot LCD |
| Weight (approx.) 1,180 g/2 lb 9.6 oz (body only), 1,340 g/2 lb 15.3 oz (with batteries)* 1,240 g/2 lb 12 oz (body only) | Card slots | Dual card slots for CF card + new memory card | CF card + CF card |
| | Others | Shutter tested to 400,000 cycles (with the unit actually loaded), higher-speed workflow | Shutter tested to 300,000 cycles |
| Sales start February 2012 (planned) | Weight (approx.) | 1,180 g/2 lb 9.6 oz (body only), 1,340 g/2 lb 15.3 oz (with batteries)* | 1,240 g/2 lb 12 oz (body only) |
| | Sales start | February 2012 (planned) | December 2008 |



AF-S NIKKOR 85mm f/1.8G



9 elements in 9 groups7 Rounded diaphram bladesMinimum focus 0.8m

Pricing and availability

D4 Body only:

- £4799.99 / €5658.00
- 16th February 2012 (TBC)

AF-S 85mm NIKKOR f/1.8

- £469.99 / €554.00
- 22nd March 2012 (TBC)

WT-5

- £499.99 / €589
- 16th February 2012 (TBC)







Film by Corey Rich shot on a Nikon D4