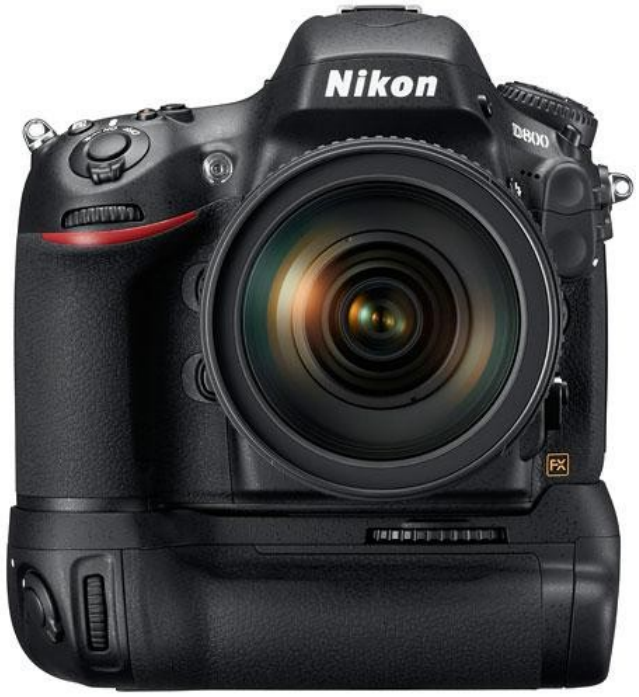
Nikon greift an: D800 / D800E mit 36 Megapixeln (aktualisiert)

von thoMas | 07.02.2012 08:00 Kameras | 163

Mith the D8OO, Nikon is today presenting a digital 35 mm SLR camera that takes on the competition on several fronts: 36 megapixels is a value that will also make medium format manufacturers sit up and take notice. And for only around 2900 euros. For For purists who want to squeeze the last bit of resolution out of the sensor, there is also the OBOOE variant without low-pass filter for **3219 euros:**

First of all: the Nikon D8OO is not successor to the D7OO . D h e will remain in the range for the time being, the D8OO will be added - and is a completely different caliber. Nikon could justifiably have called it the D4x. 2899 euros for a 36-Mega pixel model in a sealed Magnesium housing, that's a word and a



Frontal attack on the medium format

The D8OO has a CMOS sensor in FX format (24-36 mm) with 36 megapixels, achieves 4 fps and offers a sensitivity range of ISO IOO-6400 (extended 50-25,600). The image processor is the same Expeed 3 as in the D4, which has to deal with l44 megapixels per second at 4 fps.

The viewfinder with BriteView focusing screen type B (MK VIII) covers approx. 100 % of the image field a b, offers superimposable grid lines, and can display the
Display the camera orientation using the AF points (which are then displayed like a

BES

Leca LUX Grip presented: A grip for the future

Canon RF 16-28mm F2.8 IS STM: New light-fast ultra wide-angle zoom

OR System OM -3: Compact and robust system camera with flagship technology

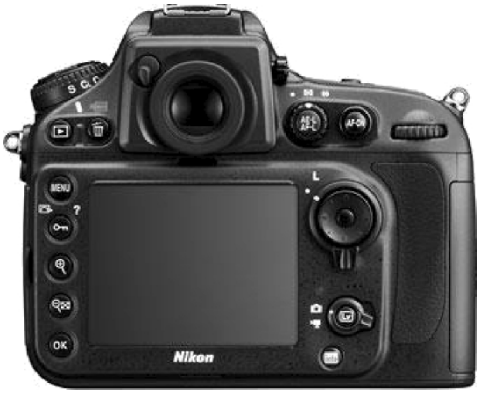
CIPA- Update- The future of the camera market: between niche and new wave

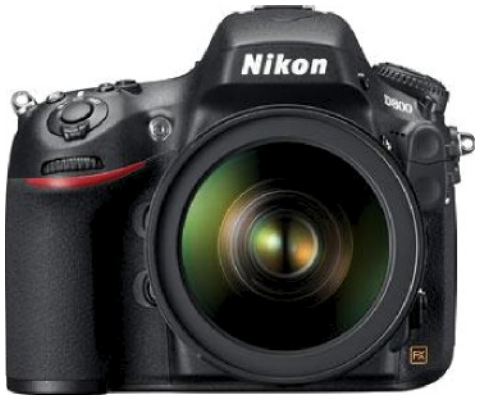
Exhibition "TheGoodPicture": LeicaArchlvöbnetecstrnase neSarnrnIungför eine Ausstellung

COMMENTIED

digital spirit level function). An advanced scene recognition system including permanent face recognition optimizes white balance, exposure and focus. It sits in the viewfinder, analyzes the image captured by the viewfinder and then an image database for the best match and optimum settings.

The AF module is identical to that of the D4; it has Sl AF sensors and is characterized, among other things, by its low-light performance. All AF sensors work from aperture 5.6; 11 sensors are functional from aperture 8; between aperture 5.6 and 8 there are 15 sensors.





D8OO

Further key points:

· Shutter is designed for at least 200,000 releases
· 3.2-inch monitor with 921,000 dots, sRG B color space, automatic brightness adjustment
- Integrated flash, LZ 12, compatible with the Creative Lighting system, can be can be used as a control flash
- Housing made of magnesium alloy
• Sealing against weather, dust
• WLAN and GPS compatible
- Handle M B-Dl2
- Available from March 22, 2012 for 2899 euros

The new camera can film in Full H D l08Op and masters the uncomprimized H DMI output to external monitors or recorders; digital audio devices can be used as a sound source via Line I n. It is also possible to between FX and DX format for film , which corresponds to a change in focal length by a factor of 1.5. According to Nikon, the rolling shutter effect and block artifacts have been reduced in the D800. Connections for a stereo microphone and headphones are also available as well as sound control and sound level display.

[Inset (2/7/2012; 10:45 AM)]:

With 36 megapixels on a 24-36 mm 35 mm sensor, the D8OO places high demands lens quality if the sensor resolution is to be reproduced. However, these demands are not so extraordinary; many other models with fewer megapixels but smaller sensors achieve a similarly high packing density and therefore have similar performance requirements.

Here is a comparison of the pixel size ("gross") of various recently introduced cameras:

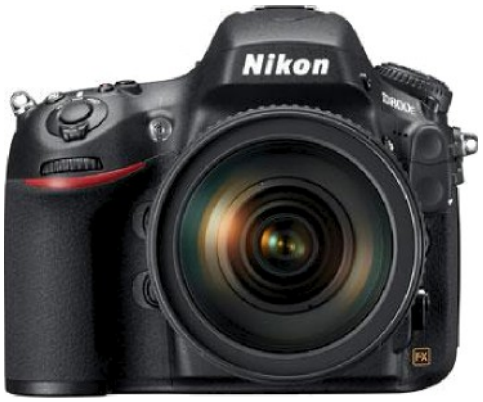
Model	Recording format	Megapixel eff.	Pixel size
Nikon D8OO	35.9-24 mm	36,3	*',9 p*
Pentax K-O1	23.7-15.7 mm	16,3	*4,8 p*
Fujifilm X-Pro1	23.6-15.6 mm	16,3	'4*,8 p*
Canon Gl-X	*J8,T-J4* mm	14,3	4.3 ju
Nikon *D*'4	36 23.9 mm	16,6	7.3 gi
Canon EOS-1D X	36-24 mm	18,1	6.9 ju
Sony SLT A77	23.5-15.6 mm	24,3	3.9 pi
Nikon 1	13.2-8.8 mm	1O,1	*3,4 g*
Samsung NX2OO	23.5-15.7 mm	20,3	4,3 #i
Sony NEX-7	23.5-15.6 mm	24,3	3.9 ju
Olympus PEN E-P3	17.3 13 mm	12,3	4.3 ju

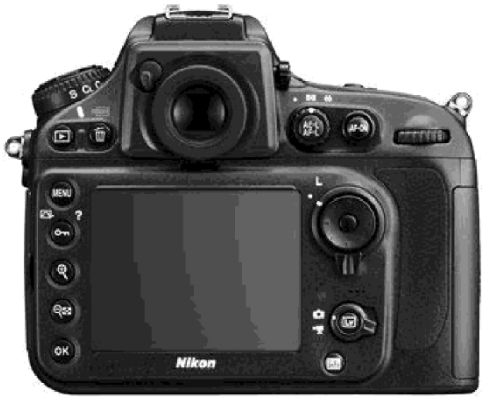
As a rule of thumb for modern system cameras with a pixel size of around and below *4 p*, it can be said that diffraction limitation sets in beyond f/11 - in other words, stopping down beyond f/11 leads to a loss of detail information. At around 5 p, this applies to apertures smaller than 16but please understand that this is really only a rule of thumb.

'-- To *determine* the pixel size, the sensor sides were divided *by* the pixels drawn on them (e.g. *35.9 mm/* ZZ6OJ; *the actual* pixel size *is slightly* smaller *due* to the *circuit design, but since this applies* to all*,* the values *should still* be suitable for use.

D8OOE

With the D8O0E, Nikon is also introducing a D8OO variant equipped with a modified optical filter that has no low-pass filter properties; the IR blocking and anti-reflective coating remain and are identical to the D8OO. This means that the photo is not slightly "smoothed" optically by the filter and may a little sharper. On the other hand, moiré and color fringing must be taken into account. According to Nikon, the sharpness results are only a little bit better, but everyone can check that for themselves: The D8OOE will only be available from selected sales partners. In this way, Nikon wants to ensure that before buying
the appropriate advice is also possible - according to the motto "Try first, buy later" is how prospective buyers can take a close look at the D80OE. It will be available from April 12, 2012 for 3219 euros.





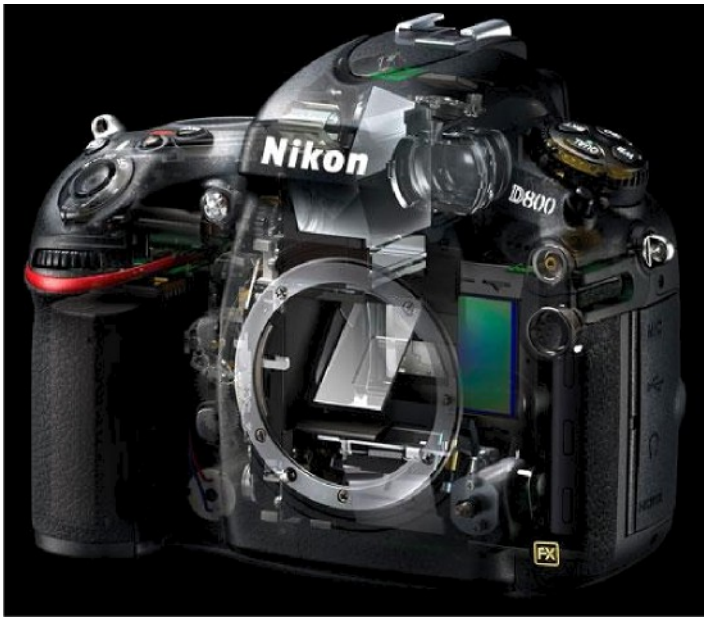
D8OOE

Here is the press release from Nikon Germany on the subject, followed by the technical data:

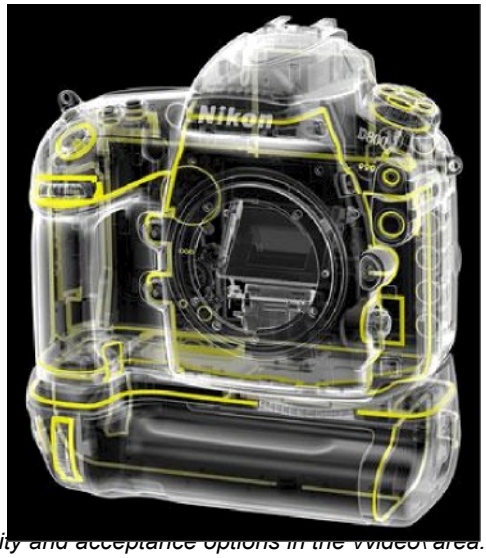
Nifron O8OO - new barrels *for full tower solutions*

Ou "sse/dorf, *February 7*, 2O72- *Nikon today a groundbreaking professional digital SLR camera with 36.3 megapixel resolution and FX format bi-Idsensor:* the *Nikon D8OO.*

The Nikon DBO0 sets new standards *for professional photo and video recording. Numerous new technologies make it possible to* capture *impressive three-dimensional* targets *and detail and flexible* don/'tions *for broadcast-quality* filming.
The Nikon DBO0 in a class of its own. It delivers an image quality that can compete with the medium format, but at the same time offers the handiness of a *digital SLR camera.* It meets the highest demands of *the professional photographer in terms of detail resolution and allows him to realize large format shots.*



For the first time ever, a special version of this model *will be with the introduction of the D8OO:* the *Nikon D8OOE.* It *is the* unique alternative *for anyone* looking for *the ultimate in* detail. *The D80OE differs from its sister model in that the optical filter in front of the image sensor does not have a low-poss filter function* and *thus leads to the maximum possible sharpness and* detail.



Stefan Schmidt, Product Manager SLR System Öei at Nikon CmÖH: "The D8OO was not about to find a new pixel record, but to provide the photographer *with a* modern tool with *high flexibility, dos Assumption* with *a detail resolution and guaiitÖt at medium format level. In addition,* there is *a Solution fines on an unusually wide-ranging ISO EmpoRtability area as well as professional quality and acceptance options in the Video\ area."*

Highest *quality in 'full format*
The outstanding 36.3 megopixel CMOS bi-Idsensor in FX format (full-frame) enables an unprecedented level of detail and tonal range.

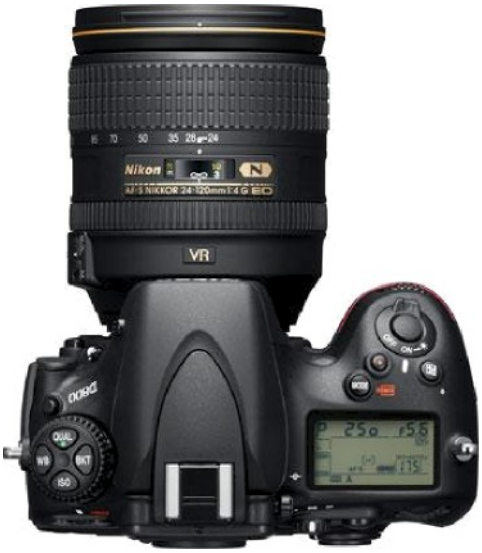
I2-channel dotenoosgobe *with I4-bit AD conversion and* large *signal-to-noise ratio: delivers recordings of the highest quality with low noise and high dynamic range.*

Croßer /SO range: *With* a *sensitivity range of 100 to 6,000, which can extended to 50 or 25,600, the D8OO sets new standards for digital SLR cameras with such high resolution. The intelligent noise reduction systems minimize noise without compromising fine details and enable maximum flexibility under* o/le licenses. Even *at high ISO* settings*, the images are brilliant and sharp.*

Top performance
The D800 is equipped with the new EXPEEO 3 image processing engine, enabling it to master even computationally intensive tasks without compromising speed and quality.

I6-bit image processing: It enables very fine tonal gradations and extremely natural color reproduction with an enormous wealth of detail and dynamic range - even when shooting in JPEG format.

V'ideooufnofimen *in* Sencfequolitöt
The *D8OO* offers *professional videographers and* camera operators *maximum flexibility for* a *wide range of filming applications. You* can *record large format movies in the highest quality with many different frame rates.*



Bi/droten: *Full HD movies {7O8Op)* can be *recorded at 30, 25 or 24p*, c/the *options 60, 50, SO and 25p are offered for* 72Op. *Film sequences can be* recorded *with a length of* fost3o minutes *(29 min 59 s).*

Full-I-ID films with two *image field options- As presented for the first time at* the *DN, Full-HD recordings are possible in both rx and DX-based formats. This offers a great deal of creative freedom.*

First-of-its-kind *audio features - In response to the industry's feedback, the DBO0 offers new possibilities for sound recording with digital SLR cameras. It enables film recordings that sound as good* as *they look. /*In addition to an *input for an* external *stereo microphone*, the *camera* offers an *audio output for* external *headphones, which enables controlled fine-tuning of the sound level. is also possible to record the audio signal in* linear *PCM recording format* via external *PCM* recorders.

Uncompressed HDMl output: *Users who* require the finest *video output for professional editing can use the D8OO to output the* uncompressed Live View signal *to external recording devices and monitors.* Like the CYer *Nikon DN, data is output at the set image size and image red, without the inputs that* can *be displayed simultaneously on the camera's TFT monitor*.

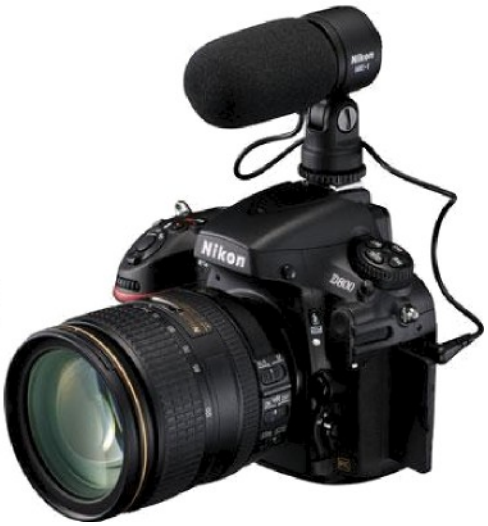
MoJ3scfined controls *simplify Live View operation. The "motorized aperture control" function can* be assigned *to the aperture and function buttons on the* camera's front panel *and* enables *finer-grained opening and closing in 1/8* aperture increments.
Index markers make it possible *to mark important phases in a video sequence directly during recording. This makes it much* easier *and* quicker *to find important scenes* in *subsequent video editing.*

Advanced scene recognition with 97,000 pixel/AC8 sensor
Nikon's revolutionary advanced *scene recognition system includes*

now has a new 91,000-dixel QCB sensor that analyzes all subjects with extreme precision. It recognizes *faces with the highest* cenooig/ce/t *even when using* the *optical* viewfinder *and* captures *the colors and brightness of subjects with unrivalled precision.*

This *new level of precision in subject recognition* benefits *functions such as* autofocus control, automatic *exposure controlwhite balance or i-TTL flash exposure control and thus reliably perfect shots in a variety of shooting situations. For* example*, the subject tracking of smaller* objects *within the SD tracking function has been significantly improved.*

In der Kamera kommt die gleiche verbesserte Variante des erprobten ***AF-Moduls Multi-CAM 3500 FX*** *zum Einsatz wie in der kürzlich vorgestellten Nikon D4. Genau wie bei diesem Spitzenmodell sind die AF-Einstellungen auch bei der D800 individuell wähl- und konfigurierbar (9, 21 oder 51 Messfelder). Durch die Überarbeitung des Sensormoduls und der Steueralgorithmen konnte die*



Sensitivity öei poor lighting conditions, namely up to -2 EV (ISO IOO at 20 °C). The compatibility of the individual *AF sensors also corresponds to the DN level: II metering fields are available at an effective aperture* of *I*:8 *(e.g. when using an AF-S-NIKKOR lens 600 mm I:4 with* the 2.0 but each converter *TC- 2oElll). At* apertures between *I:5.6 and 1.B, 15 metering fields are available, and at apertures of I:5.6 or* higher*, all metering fields can be used without any restrictions.*

The selection of the *AF mode* (continuous or *single AF) and the AF point control has been simplified and is now also* possible *while looking through the viewfinder.*

ReoAtionFast and *intuitive*
The Nikon D8OO reacts at lightning speed - withpractically arranged costs *and functional elements that enable intuitive operation.*

Reaction speed: *The switch-on time is co. 0.72 seconds, the* shutter release delay *has been reduced to co. 0.042 seconds (I) (corresponds to DN).* Ser/enoc/framing *is possible in FX format and in 5:4 format at 4 fps,* in *I,2x or DX formats at 5 fps. With the optional MB-DI2* m/t/function handle*, even approx. 6 frames per second can be achieved in DX format.*

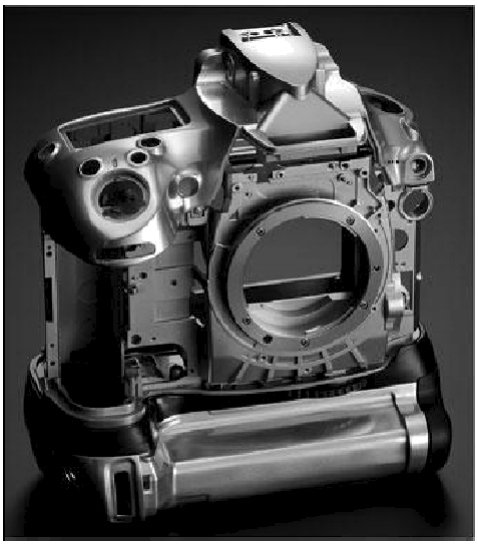
Precise *3.2-inch DCD monitor (8* cmj with co. 927,OOO bi-dots, *large* 8etrochromatic range *and* automatic monitor brightness control: *for brilliant picture reproduction with precise, natural color reproduction. The brightness of the monitor is automatically adjusted to the* ambient light *and images can* be enlarged *up to 46 times during playback* - a great help depending on the diffraction of *the screen.*

Optical closed prism viewfinder *with approx. IOO % image field coverage and* 0.7-*magnification (50-mm-Oö)ektiV I:I.4 at infinity,' -1.0 dpt).*

You can use a two-axis **e/e/'tronic virtual** ***horizon*** *to make sure that the camera is level when shooting. This allows* you *to check the camera position in relation to the horizontal plane and its tilt (rotation forwards or backwards) both on the LCD monitor and in the viewfinder.*

Better ergonomics: *Buttons and dials are optimally arranged for smooth operation. Improved positioning of the shutter release ensures that the index finger can rest more comfortably, and* the dedicated *movie recording button* allows you to *start* movie recordings flash*High-quality rubber compound on the housing ensures a good grip* and *safe handling.*

DireCt access ou/° Picture Control f¢onf'igorotions *LiÖer a* new *dedicated button instead of via the menu. With Dicture Control configurations, you can adjust the appearance of photos and videos by* setting parameters *such as sharpness, color soluÖtion and hue.*



Robustness
Despite its low weight and compact size, the D8OO gen o iso roö set is as e.g. öie DN. It offers *first-class protection against* moisture *and dust so that you can take pictures even in adverse conditions.*

f-high-precision, **long/extreme U'ersch/uss:** *The shutter has been tested for* more *than 200,000 releases* to ensure its *durability.*

guarantee. The exposure times are between 1/8,000 second and ZO seconds'. The camera is equipped with an intelligent shutter override with self-diagnosis as well as a newly designed drive mechanism that drastically reduces power consumption the *mirror* is open for *longer periods of time.*

Efficient energy monogement: *When developing the electronics of the D8OO, great importance was attached* to *low power consumption.* *This means that you can take approx. 850 photos or operate the camera in movie live view for approx. 60 minutes on one EN-ELI5 battery charge.*

High-quality J¢onstruction: *The D8OO is just as reliable on the road as it is in the studio. It has a magnesium alloy housing that is protected against moisture* and *dust and is around IO % lighter than that of the* D7OO.

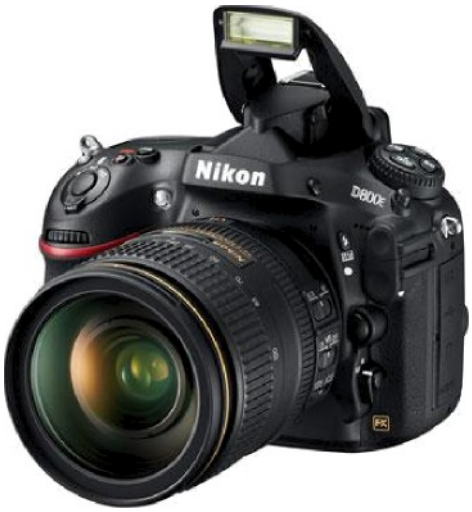
Storage media:*Two memory card slots: one* each *for high-speed CF* words *(UDMA 7) and SD cards (SDXC and UHS-I). High-*

speed data transfer with USB 3.0.

NiAon OBOOE - Oie *o/timotive* A/ternotive
The Nikon D8OOE is a special version of the O800 and is aimed at photographers who want *the absolute optimum in detail.*

The D8OOE from its sister model in the optical filter in front of the image sensor does not have a low-pass filter function. On the one hand, the omission *of the* t/efpossf//terong *leads to the maximum possible sharpness and detail reproduction, while on the other hand, the standard version D8OO, there is generally an* increased *risk of the occurrence of of* /\4o/re *and* foröumes, which *is not a* Feb/Function *due to the location. A subsequent reduction of any color artifacts that may* occur *is possible when* recording *in LAW or NEF file format via the Nikon image processing software Capture NX2 (function " Forómoirë reduction"). The D8OOE is supplied with an activation code for the Nikon Capture NX2 software, which available for download* on//ne*. Apart from the optical filter, all functions and features correspond to those of the D8OO.*

Creative options
For all users who don't want to spend time on time-consuming post-processing , the D8OO contains a range of creative and proctal punctures.



Timer fJlms: *The D8OO extends the ÒelieÒte function for*
la *te'FVOIIO U In O h* fT'e'n,
inc/em *you Öie ou f the images taken are stored as a film file on the Komero. These are Òarin with 24- Òis 36.OOOfold* speed aÒplayed.

With *the I-łDJ*? *function* f-igh *Dynamic* Range}, *two shots* are *taken by activating* the *shutter release (one with positive and one with negative exposure compensation) and then merged into one image. In this way, the dynomics could be extended by up to 5 light values, with perfect coloration and* tonal drawing. *The soldering* of the *transitions between* subjacent *parts of the image can be adjusted for a* notchy *image effect*.

The precise *adjustment of the color temperature enables a fine tuning of the white balance. The color tone of the monitor in live view mode and the white balance of the resulting image can be set independently of each other and thus be matched to each other (e.g. when shooting with a studio oiling system). The color temperature can be set in* /O-Me/vin-Scfir/tten oc/er MireÖ-E/nhe/ten
can be set manually.

Automatic adjustment of the **/longest** fie/icAtion time öi /SO-AotomotiA: *A* new *function automatically adjusts the longest exposure time, ou f which the camera uses octÍVİQrteF* ISO-AUčO1Otl/¢*to the currently set focal length.*

'V'ier 8ildFelcf options: *The D8OO is the first camera in this class to offer various image field options for photos that are optically morphed in the viewfinder. In addition to the FX format, these are: 5.4 (3O,O x 24,O mm), I,2x (30,0 x 19,9 mm) andÖ DX format (23,'fi x 15,6 mm).*

Editing *in* the **camera:** *Photos* and *fi/ms* can be *edited directly in the camera. The editing menus contain* many *useful options* such as NEF (RAW) processing, *image size, distortion correction, fisheye effect, miniature effect, role-eye correction, filter effects and image overlay. In addition*

Film clips can be shortened to the essential massages so that the storage space is used more efficiently.

V'erf'ügöorkeit *and* price
The Nikon *D8OO is expected to be available at the end of March 2012 at a recommended retail price of €2,899.*

*The Nikon D8OOE is expected to be available from mid-April 2012 at a recommended retail price of €3,*219/ *selected Nikon sales partners (selective distribution).*

Further information can be found at *http://www.Nikon.de*

Accessories
The *MB-DI2 multifunctional handgrip (optional) can be used with various rechargeable batteries* (see technical *data). Like the D8OO, it offers a magnesium/eg/erong construction with protection against moisture and enables continuous shooting* at co. *6 frames per second in DX format. The MB-DI2* has its own *shutter release and setting wheel for shooting in high format.*

First ocfsfied a¢if'cations with Öem *hlikon* SB-970
f p-' no/): *The* four-sided *i-TTL system oilitzer can used as* plug-in seat *on the camera or to control* a *wireless flash system with optimized operation. It has a guide number of 34 (ISO IOO, m, PX format, zoom setting at 35 mm, "Stondord" lighting profile). The menus and controls have been improved and are now even easier to use. Fixed foröfilters for artificial light* and *fluorescent lamps are* included the scope of delivery. They *are automatically recognized when attached and enable the DBO0 to automatically adjust the white balance.*

Capture *CX 2* {optionolJ - fast, powerful *and* creative *image processing: To meet the demands* of *processing the 36.3 effective megopixels of the D8OO, the latest* version *of* Capture *NX 2 offers powerful 64-bit image processing.*

*Camera Control Pro * t-ptional) - versatile remote control of camera functions. The software* offers *a wide range of* functions *and not only allows you to control the exposure mode, shutter speed and aperture, but also to set the camera's first exposure.*
Smooth Live View operation with the D8OO. New functions include dos starting and stopping movie recordings and dos switching between Live-\7iew for photos and movies via remote control.
'ViewNX 2 (included) - *Viewing,* sorting, *editing,* laddering *and* much more. *All-in-one software with user-friendly interface and various editing features, including basic RAW file and movie editing. Offers* seamless *integration with my Picturetowri, Nikon's image* sharing *and storage service.*

Technical data D800	
Type	Digital mirror reflex camera for interchangeable lenses
Bayonet	Nikon F bayonet mount (with AF coupling and AF contacts)
Image sensor	
Image sensor	CMOS sensor, 35.9-24.O mm (Nikon F X format)
Effective resolution	36.3 million pixels
Total number of pixels	36.8 million pixels

Dust reduction system	Image sensor cleaning, reference image for the jam removal function (Capture NX 2, optionally available)
Data storage	
Image sizes (in pixels)	- FX format (36- 24): 7,360-4,912 (L), 5,52O-3,680 (M), 3,680-2,456 (S); - 1.2 (3O- 20): 6,144-4,080 (L), 4,6O8-3,056 (M), 3. O72-2.040 (S); - DX format (24-l6): 4. 8O0-3,200 (L), 3,6OO-2,400 (M), 2,400-1,600 (S); - *S:4* (30 x24): 6,l44-4,912 (L), 4,608-3,680 (M), 3,O72-2,456 (S); - FX-Format shots in Live View mode for movies": 6.72O-3.776 (L),; 5.O4O-2.832 (M), 3.36O-l.888 (S); - DX format-Shooting in Live View mode for Films": 4.8OO-2.704 (L),; 3.6OO-2.024 (M), 2.4OO-1.352 (S); "Recordings in Live View mode for movies have an aspect ratio of 16:9; a format is used for recordings made with the DX image field (24 x 16 mm); an FX-based format is used for all other recordings.
file format	‧ NEF (RAW): 12 or 14 bit; lossless , compressed or uncompressed; - TIFF (RGB) - 3PEG: 3 PEG-Baseline compression; quality levels: "3PEG Fine" (approx. 1:4), "JPEG Normal (approx. l:8) and "3PEG Basic" (approx. 1:16) (specified compression rates with "Standard file size" setting); "Optimale image quality" setting selectable - NEF (RAW)+3 PEG: Dual file format (images are saved as well as l saved in NEF (RAW) format as well as in 3PEG format)
Picture Control System	Selection between "Standard", "Neutral", "Brillant", "Monochrome", "Portrait" and "Landscape"; individual customization possible; memory for user-defined Picture Control configurations
Storage media	SD (Secure Digital) and UHS-I compatible SDHC and SDXC memory cards; CompactFlash cards (type I), compliant with UDMA standard
Double memory card slot	Both cards can be used as a primary memory card or as a backup or for backup copies, as well as for separate storage of images in NEF (RAW) and 3PEG formats. Images can be copied from one memory card to the other
File system	DCF (Design Rule for Camera File System) 2.0, DPOF (Digital Print Order Format), Exif (Exchangeable Image File Format for Digital Still Cameras) 2.3, PictBridge
Viewfinder	
Viewfinder	Mirror reflex pentaprism viewfinder with fixed position of the exit pupil

Field of view coverage	FX format (36- 24): approx. IOO % (vertical and horizontal)- 1.2x (3O- 20): approx. 97 %; (vertical and horizontal) - DX format (24-l6): approx. 97 % (vertical and horizontal) - 5:4 (30-24): approx. 97 % and 100 % horizontal
Viewfinder image enlargement	approx. 0.7x (with 50 mm lens with lens speed l:1.4, focus to infinite, -l, 0 dpt)
Lape of the exit pill	l7 mm (-1.0 dpt; from the center of the eyepiece lens surface)
Diopter adjustment	-3 to +l dpt
Setting disk	BriteView focusing screen type B (Mark VIII) with marking of the AF point area and grid lines
Mirror	Faster return mirror
Dimming button	The stop-down button closes the aperture to the set f-stop (depth of field control). With The aperture is set manually by the user in the case of program automatic (P) or manual exposure control (M), and by the camera in the case of program automatic (P) and aperture automatic (S). Camera set.
Aperture	Electronically controlled spring diaphragm
Objective	
Compatible lenses	Compatible with NIKKOR lenses, including G or D type lenses (restrictions apply to some PC-E-N IKKOR lenses), DX lenses (with DX format field of view (24xl6mm)), AI-P-N IKKOR lenses and lenses without CPU (only with aperture priority (A) and manual exposure control (M)); IX-NIKKOR lenses, lenses for the F3AF and lenses without AI are not compatible. Focusing with electronic focus assist can be used with lenses with a minimum aperture of 1:5.6 (with eleven metering points at minimum light intensity of 1:8).
Closure	
Type	Electronically controlled, vertical focal plane shutter
Closure times	30 s to 1/8,000 s (increment: 1/3, 1/2 or l EV) , long exposure ("B") , X 250
Flash sync time	X=1/250 s; the flash is synchronized with a shutter speed of 1/320 s or slower (at shutter speeds between 1/320 and 1/250 s, the flash will not synchronize). flash range may be shorter)
Triggering	
Recording modes	"S" (single image), "CL" (slow continuous shooting), "CH" (fast continuous shooting), "Q" (silent triggering) , (self-timer) , "M -UP" (mirror lock-up)
Frame rate	‧ With batteries of type EN-EL15 (FX/5:4) CL: approx. l to 4 fps CH: approx. 4 fps,

	(DX/1.2x) CL: approx. 1 to 5 frames/s; CH: approx. 5 frames/s; - other power supply (FX/5:4) CL: approx. I to 4 frames/s CH: approx. 4 frames/s, (DX/1.2x) CL: approx. I to S frames/s; CH: approx. S frames/s, (DX) CL: approx. 1 to 5 Frames/s CH: approx. 6 frames/s
Self-timer	2 s, 5 s, 10 s, 20 s; I to 9 images with Lead time of 0.5, I, 2 or 3 s
Exposure	
Exposure metering	TTL light metering with 91K RG B sensor
Measuring system	' Matrix: 3D color matrix measurement III (only with lenses of type G and D) or color matrix measurement III (with other lenses with CPU); color matrix measurement is for lenses without CPU if their lens data has been entered; center-weighted measurement: Metering center of gravity with a weighting of 75 % in a circle with 12 mm diameter in the center of the image (diameter can be changed to 8, 15 or 20 mm) or integral metering over the entire image field (for lenses without CPU only center-weighted metering with 12 mm center of gravity diameter or integral metering)-; Spot metering: Exposure metering in a circular field (diameter: approx. 4 mm; corresponds to 1.5 % of the image field) in the center of the selected area. Focus measuring field (central focus measuring field for lenses without CPU)
Measuring range	' Matrix measurement or center-weighted measurement: 0 to 20 EV (based on ISO IOO at 20 °C and a lens speed of I:l.4); - Spot measurement: 2 to 20 EV
Aperture transfer	Electronic or mechanical (depending on lens type)
Exposure control	prop(P) with prop, Aperture priority (S), Aperture priority (A) and manual exposure control (M)
Exposure compensation	-5 to+ 5 EV, stepwise: 1/3, 1/2 or I EV
Exposure bracketing	2 to 9 images, step width: 1/3, 1/2, 2/3 or 1 EV
Exposure metering memory	Save the measured value by pressing the AE-L/AF-L button
ISO sensitivity	ISOlOO up to 6,400 in shades ofl/31/2 or 1 EV with settings to approx. 0.3, 0.5, (Recommended Exposure Index); 0.7 or 1 EV (corresponds to ISO 50) under ISO 100 or to approx. 0.3, 0.5, 0.7, I or 2 EV (corresponds to ISO 25,600) above ISO 6,400 possible; ISO automatic available
Active D-Liphtinp	Automatic, , Boost, Normal, Moderate, Off
ADL weighting series	2 images with selected Active D Lighting setting for one image, no Active D-Lig hting for the other or 3

	up to 5 images with selected variation the ADL setting
Autofocus	
Autofocus	TTL phase detection with extended autofocus sensor modul Nikon Multi-CAM 3SOOFX, fine tuning, 5l focus points (incl. 15 cross sensors; II m ore sensors compatible from a minimum light intensity of 1:8), AF- Auxiliary light (range approx. 0.5 to 3m)
Measuring range	-2 to +19 EV (based on ISO 100 at 20 "C)
Focus modes	Autofocus (AF): Single autofocus (S), continuous autofocus (C), predictive focus tracking responds automatically to movements of the subject; ' Manual focusing (M): The Focusing with electronic focusing aid can be used
Measuring field selection	Selection from Sl or II focus fields
AF-area control	Single field control, dynamic field control (9, 21 or 51 fields of view), 3D tracking, automatic Measuring field control
Focus memory	Save the distance by pressing the shutter release button until the first pressure point (single autofocus) or by pressing the AE-L/AF- L button
Lightning	
Integrated flash unit	Release button for manual pop-up; guide number 12, guide number 12 at full power; in manual mode (m in each case, based on ISO 100 at 20 °C); TTL flash exposure control: i-TTL flash control with 91K-RG B sensor is available for the integrated flash unit as well as for SB-910, SB-900, SB-800, SB-700, SB-600 or SB-600. SB-400 is available; i-TTL flash for digital SLR cameras is used with matrix measurement or center-weighted measurement, standard i-TTL flash control for digital SLR cameras with spot measurement
Flash modes	Synchronization to the first closing curtain, Slow synch ronization, synchronization to the second shutter curtain, reduction of the red-eye effect, slow synchronization with reduction of the red-eye effect, slow synchronization to the second shutter curtain; for Automatic FP short time synchronization
Flash exposure compensation	-3 to +l EV, step width: 1/3, 1/2 or l EV
Flash bracketing	2 to 9 images, increment: 1/3, 1/2, 2/3 or l LVV
Flash standby bar	Lights up constantly as soon as the integrated flash unit or an optional flash unit is fully charged; flashes after a flash triggering with full power
Accessory shoe	Standard contactor (ISO 518) with synchronization and data contacts

	and fuse pass hole
Nikon Creative Liphtinp	Advanced Wireless Lighting with IR remote flash control unit SU-800 or with flash unit integrated in the system (CLS), SB-910, SB-900, SB-800 or SB-700 as master flash unit and with SB-910, SB-900, SB-800, SB-700, SB-600 or SB-700 as master flash unit. SB-R2OO as slave flash units; automatic FP short-time synchronization and modelling light with all CLS-compatible flash units except SB-400; colour temperature transfer and flash exposure memory with all CLS-compatible flash units. compatible flash units
Flash sync connection	Stand flange (ISO 519) with thread
White light	
White light	"Automatic" (2 options), "Artificial light", "Fluorescent lamp" (7 options), "Direct sun", "Bitz", "Illuminated", "Shadow", up to 4 preset manual Selectable white balance settings and color temperature (2,500 K to 10,000 K); fine tuning for all color temperatures. Options possible
White line	2 to 9 images, increment: I, 2 or 3
Live-View	
Operating modes	Live View for photography, Live View for filming
Focus modes	‧ Autofocus (AF): Single autofocus (AF-S); permanent AF (AF-F-) manual focusing (M)
AF metering control	"Portrait AF", "Large metering field", "Normal", "Motif folgunp"
Autofocus	AF with contrast detection at any position in the image field (with portrait AF or AF with subject tracking, the camera automatically selects the focus point)
Movies	
Exposure metering	TTL metering with main image sensor
Image size (in pixels)	- I.92O-I.080; 3Op, 25p, 24p - I.28O-72O; 60p, 5Op, 30p, 25p; actual frame rates for 60p, 5Op, 30p, 25p and 24p: 59.94, CO, 29.97, 25 and 23.976 fps; options and frame rate support both high and normal picture quality
file format	MOV
Video compression	H.264/M PEG-4 Advanced Video Coding
Audio recording format	Linear PCM
Audio recording performance	Integrated mono microphone or external stereo microphone; sensitivity is adjustable
Movie options	Index marking, time-lapse recordings
Monitor	

Monitor	TFT monitor with approx. 921,000 pixels (VGA), a screen diagonal 8 cm (3.2 inches), large viewing angle of 170°, approx. IOO % field of view coverage and ambient brightness sensor for automatic control of the brightness. Monitor brightness
Playback	
Playback	Single image playback, index image (4, 9, 72 images), detail enlargement, Movie playback, slide show for photos and/or movies, marker function, histogram, automatic image alignment, image annotation (up to 36 characters)
Interfaces	
USB	SuperSpeed USB (USB 3.0, Micro B connection)
HDMI output	HDM I minijack (type C) ; simultaneous use with camera monitor possible
Audio input	Connection for stereo mini jack plug (diameter 3.5 mm)
Audio output	Connection for stereo mini jack plug (diameter 3.5 mm)
Accessory interface	Connection for optional accessories such as remote controls and the GPS receiver GP-I (CO-pin) or GPS compatible with the NMEAOI83 2.01 or 3.01 standard (with 9-pin D-Sub connector; the GPS adapter cable MC-35 is required for connection to the camera)
Miscellaneous	
Menu languages	, Chinese (simplified and traditional), Czech, Danish, Dutch, English, Finnish, French, German, Hungarian, Indonesian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Romanian, Russian, Spanish, Swedish, Thai, Turkish, Ukrainian
Electricity supply	One lithium-ion battery type EN- ELI5
Multifunctional handle	Optional multifunctional handle M B- D12, with a lithium-ion battery of type EN-ELI5/EN -EL18* or with eight alkaline, NiMH or lithium batteries or rechargeable batteries. (Type: R6, size AA) "Battery compartment cover BL-5 required (sold separately)
Mains adapter	Mains adapter EH-Sb; requires battery compartment insert EP-5B (separately available)
Tripod thread	1/4-inch thread (ISO 1222)
Dimensions	(camera housing only) (H x W x D) approx. l25l46x8l.5 mm
Weight	approx. 1,000 g with battery and SD memory card, but without Housing cover; approx. 900 g
Operating conditions	Temperature: 0 to 40 'C, : below 8S % (non-condensing)

Accessories supplied	Lithium-ion battery EN- ELI5, battery charger MH-25, eyepiece adapter DK-I7, USB cable UC- EI4, USB cable clip, carrying strap, monitor protection BM -12, housing cover, BF-1B, cover for accessory shoe BS-1, ViewNX 2 on CD ROM (the scope of delivery may vary depending on the model).

	A(the country of delivery is different)

Subject to changes and errors. February 2012.

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