

Nikon

D100

DIGITAL SLR CAMERA



*The Nikon digital SLR experience.
Fulfillment defined.*

6.1
Effective
Megapixels

3D
Digital Matrix Image
Control

5-Area
Dynamic Autofocus

D-TTL
Flash Performance

Nikon
System
Compatibility

www.nikon-image.com/eng/

The Nikon D100. Now that you're ready to add digital.

It's the moment you've been waiting for — the chance to add digital to your photo system. You already know what it takes to make a great picture. You've got the talent, the drive, and perhaps already enjoy the Nikon SLR experience, including your favourite Nikkor lenses. Now you've got the opportunity to expand your potential — with the Nikon D100 digital SLR.

A marvel of Nikon digital advances and decades of SLR know-how, the D100 sports a compact, lightweight (approx. 700g) ergonomic design that's compatible with Nikon's Total Imaging System which includes: AF Nikkor lenses, an expanded Speedlight system and exclusive Capture 3 software. Inside, a wealth of features provides shooting precision, quality and control. The camera's CCD, for example, features 6.1 effective megapixels for ultrahigh definition, while 3D Digital Matrix





Image Control helps ensure faithful colour reproduction — automatically. Nikon's acclaimed Five-Area Dynamic Autofocus, D-TTL flash control, TTL Auto White Balance control, three colour modes and other features provide what you need to capture great pictures.

And here's where the Nikon digital SLR difference really shines — in postproduction workflow. The supplied Nikon View 5 and optional Nikon Capture 3 software give you the tools to help bring your vision to reality. After shooting an image in NEF (Nikon Electronic File) RAW file format, for example, you can use Capture 3 to fine-tune white balance, exposure, saturation, hue and other settings — with control that excels.

Choose the Nikon D100 for its combination of precision features, smooth performance, elegantly creative control and also for its key position in the Nikon Total Imaging System.

* The D100 is the world's lightest 6-megapixel-class digital SLR camera (as of May 1, 2002).
Note: Images on LCDs and monitors shown in this brochure are simulated.

Nikon digital reveals fine-detailed pictures rich in colour.



6.1-megapixel resolution

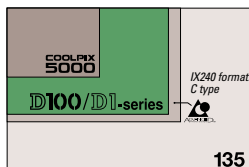
The Nikon D100 offers what no other digital SLR can — Nikon's Total Image Quality. It begins with 6.1 effective megapixels for high-definition 3,008 x 2,000-pixel images. This allows you to capture images with extremely fine detail. It's the solution that lets you make big enlargements and crop closely to show more detail.

High-quality CCD

The D100's high-resolution images are captured by a new 23.7 x 15.6mm RGB CCD image sensor. This sensor provides a wide dynamic range and captures a great amount of light for high sensitivity. The CCD also features reduced noise, and a wide S/N ratio to



Image area size
comparison



ensure truly stunning photographic quality in the form of sharp, clear and smooth-toned images.

Accurate exposure and faithful colours

Often, achieving great results means getting the right exposure and colour temperature readings. When white balance is precise, colouration appears more accurate, while correct exposure enhances the richness of the image's colours. The D100's 3D Digital Matrix Image Control can give you both — automatically. It features an advanced image-processing algorithm that ensures extremely faithful colour reproduction with exceptionally smooth gradations.

Exposure metering modes

The D100 incorporates Nikon's highly regarded 10-segment 3D Matrix Metering mode for intelligent image analysis. Centre-Weighted Metering and Five Spot Meters linked to each AF area round out the metering selection. A key concept behind the D100 is that it offers both automatic and manual control. Let

3D Digital Matrix Image Control

For candid portraits like this, the AF-S Zoom-Nikkor 80-200mm f/2.8D IF-ED is ideal. 3D Digital Matrix Image Control provided accurate exposure and colour reproduction, automatically.

Camera settings ♦ Exposure metering mode: 3D Matrix Metering
♦ Exposure mode: Aperture-Priority Auto ♦ Shutter Speed: 1/750 sec. ♦ Aperture: f/3.5

automatic do it all for you, tweak the automatic, or switch to manual control. This flexibility helps add to the power of the D100.

Exposure control

The camera offers four exposure modes — Auto-Multi Program (P), Shutter-Priority Auto (S), Aperture-Priority Auto (A), and Manual (M). In all exposure modes, the D100's Noise Reduction function can be automatically activated at slower shutter speeds to help overcome background noise buildup. Exposure compensation and Auto Exposure Bracketing let you see the effects of varying brightness. The D100's new ISO Auto Control mode automatically adjusts sensitivity (ISO equivalency) when optimal exposure cannot be achieved in any exposure mode.

TTL white balance

The D100 offers several options for white balance



control. In Auto mode, the camera judges colour temperature by analysing the light through the lens — automatically achieving white balance, and hence colour treatment, that produces natural-looking images. Manual mode provides six settings to match the light source. With Preset mode, you use a grey or white card as a reference subject to get the most accurate white balance setting; this is ideal when shooting under mixed-light conditions. Auto white balance bracketing is especially useful as it captures images at three different white balance settings (red-dish, selected value, and bluish).

Three colour modes

The D100's colour modes suit a range of applications. Mode I is sRGB-optimised and sets hue and chroma values that are especially effective for rendering the natural-looking skin tones required in portraits. Mode II is Adobe RGB-optimised and delivers a wider colour reproduction range than the other colour modes. The high-quality final output it provides is ideal for the wider colour gamut required for studio commercial photography. Like Mode I, Mode III is sRGB-optimised, but sets hue and chroma values for landscape and nature photography.

Speedlights for brilliant colours and creative effects

The D100's built-in Speedlight makes it easy to explore the creative uses of flash photography. It offers flash coverage for lenses as wide as 20mm and boasts a guide number of 17 (ISO 200, m). The built-in Speedlight performs with D-TTL flash operation, controlled by the five-segment TTL Multi Sensor and a new algorithm for more accurate flash control. D-TTL control enables you to take balanced fill-flash pictures even under complex lighting conditions. When you need more power or want to create more dramatic effects, you can use Nikon Speedlights like the SB-80DX and SB-50DX.



Multiple flash

This portrait was shot with an AF-S Zoom-Nikkor 17-35mm f/2.8D IF-ED. Two SB-80DXs were used: one connected to the camera via SC-17 TTL Remote Cord automatically illuminated the subjects from the left. The photographer used a wireless slave flash technique with the other Speedlight for the background lighting.

Camera settings ♦ Exposure metering mode: 3D Matrix Metering
 ♦ Exposure mode: Aperture-Priority Auto ♦ Shutter Speed: 1/60 sec.
 ♦ Aperture: f/3.5



D-TTL Flash

The AF Nikkor 14mm f/2.8D ED captured the wide expanse of this scene while the use of an off-camera flash (SB-80DX Speedlight with SC-17 TTL Remote Cord) illuminated the falcon. D-TTL Flash works automatically to cast the right amount of light for well-balanced flash pictures.

Camera settings

♦ Exposure metering mode: 3D Matrix Metering
 ♦ Exposure mode: Aperture-Priority Auto
 ♦ Shutter Speed: 1/80 sec.
 ♦ Aperture: f/16
 ♦ Flash sync mode: Slow Sync

Realise more in postproduction

The Nikon postproduction digital workflow environment gives you a degree of personal control that will amaze you. It consists of three special Nikon innovations: NEF (Nikon Electronic File) RAW file format that retains truly archival data, exclusive Nikon View 5 and Nikon Capture 3 software. Together, this software workflow allows you to take your camera's images to higher levels of creative satisfaction.

Nikon NEF file format — where postproduction begins

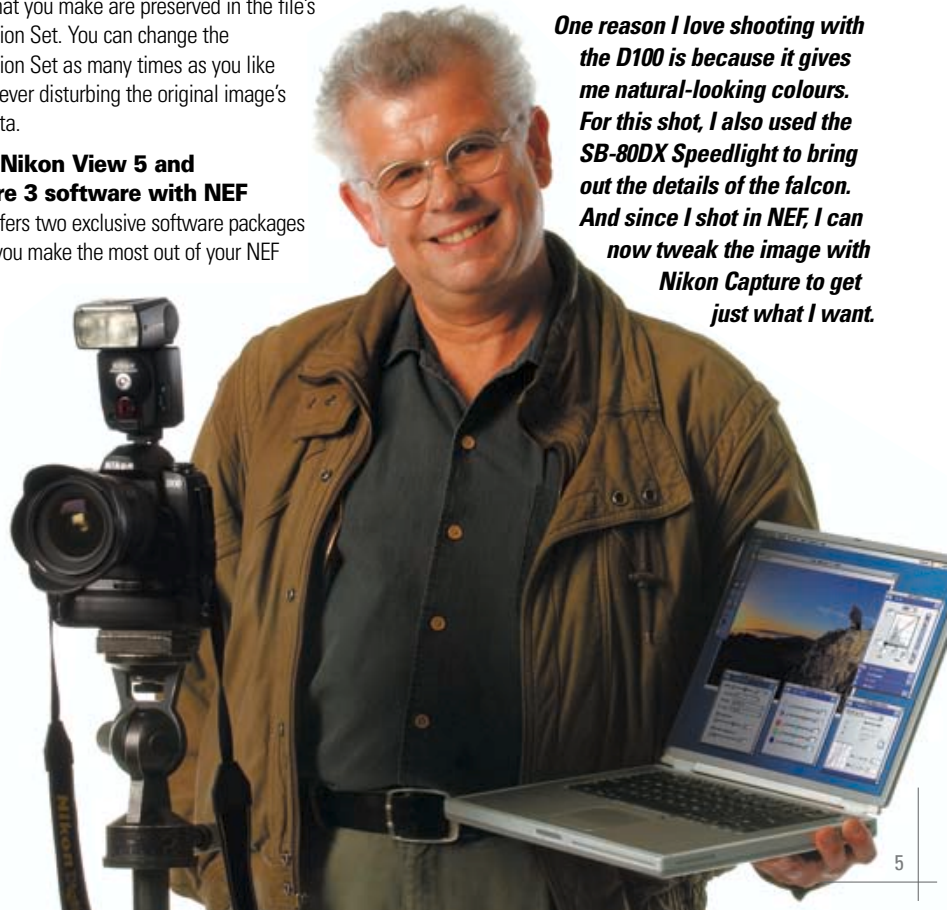
When you shoot in NEF, you can use Nikon Capture software to get the equivalent of an original negative that you can always come back to and adjust however you like. With a NEF file, the original RAW data of an image is never changed — all corrections and adjustments that you make are preserved in the file's Information Set. You can change the Information Set as many times as you like without ever disturbing the original image's RAW data.

Using Nikon View 5 and Capture 3 software with NEF

Nikon offers two exclusive software packages that let you make the most out of your NEF

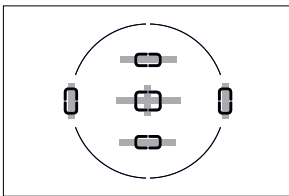
files: Nikon View 5 (supplied) and Capture 3 (optional). Use Nikon View 5 software to view your images, make basic exposure and white balance corrections to NEF, and save them as JPEG or TIFF files. You'll find Nikon Capture 3 software your most versatile NEF processing tool. It allows you to make adjustments covering an expanded range of colour, hue, saturation, brightness, contrast, curves, and other tonal characteristics in a 12-bit format that can be saved to a 16-bit TIFF. With greater bit depth you can more finely manipulate colour tones. Fine-tuning various image aspects with Capture 3 in this way ultimately translates into 8-bit files that contain richer volumes of data and superior end results. With these and other features at your fingertips, Capture 3 gives you the power to take the image in your mind's eye and make it real.

One reason I love shooting with the D100 is because it gives me natural-looking colours. For this shot, I also used the SB-80DX Speedlight to bring out the details of the falcon. And since I shot in NEF, I can now tweak the image with Nikon Capture to get just what I want.



Nikon digital means remarkable speed and control.

Since the subjects I like to shoot don't take directions, the D100 is ideal. Its amazing Dynamic AF System, combined with lenses like my 300mm AF-S Nikkor, ensures that dogs and skateboarders alike come out in sharp focus. I also like how the camera's LCD monitor clearly shows me my images and displays crucial data about them.



Position of AF sensor in the viewfinder

Fast and accurate autofocus for sharper pictures

In photography, a moment's hesitation could cost you the shot. That's why the D100 incorporates Nikon's Five-Area Dynamic Autofocus system — highly regarded for its responsive performance. The system provides the speed and creative control you need to make razor-sharp images. Features like wide-area coverage, cross-type sensor and consistent performance with all AF Nikkor optics distinguish the D100's autofocus operation from all others.

Five-Area Autofocus system

The D100's AF system features five AF sensors, covering a wide area in both the horizontal and the vertical ranges.

Dynamic Autofocus

If you've ever had trouble shooting moving subjects like animals, athletes, or children at play, you'll be happy to know that the D100 features Dynamic AF

mode. This mode ensures accurate focusing, even if your subject moves from its original position after you've selected a focus area. With Dynamic AF, the focus area will automatically shift from your selected focus area to the one in which the subject has moved. This makes it ideal for shooting action photos and others with subjects that move unpredictably.

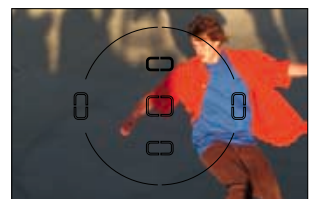
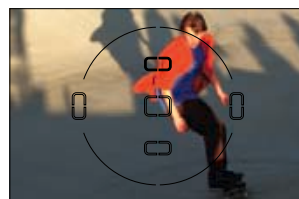
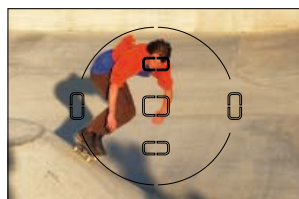
Focus Tracking with Lock-On™

Nikon's Focus Tracking system enables you to focus continuously on a moving subject. Thanks to Nikon's unique overlap servo method, the D100's AF system focuses and drives the lens simultaneously, offering fast and accurate AF operation. Furthermore, thanks to Lock-On™ Autofocus, the D100 will continue to

track your main subject even if something momentarily blocks it in the viewfinder or if it moves off an AF sensor.

AF-S and VR Nikkor optics

Thanks to its Nikon F-mount, the D100 is compatible with today's full selection of AF Nikkor optics. This includes Nikon's AF-S Nikkors whose built-in Silent Wave Motors (SWM) offer near silent ultrafast autofocus operation. The SWM drives Nikkor lenses extremely fast, enabling them to track and stop at precisely the moment of sharpest focus. Each lens offers focus range limiters and Nikon's exclusive M/A mode, which lets you switch quickly between manual focus and autofocus.



Dynamic AF: Focus stays on the subject even though the subject moves out of the selected area by shifting focus area automatically.



Five-Area Dynamic Autofocus

This shot was captured so sharply thanks to the AF-S Nikkor 300mm f/2.8D II IF-ED and the D100's Five-Area Dynamic Autofocus operation.

Camera settings

- ◆ Exposure metering mode: 3D Matrix Metering
- ◆ Exposure mode: Shutter-Priority Auto
- ◆ Shutter Speed: 1/2500 sec.
- ◆ Aperture: f/3.2
- ◆ Exposure compensation: -1 EV



The D100 also accepts Nikon's innovative VR Nikkor lenses such as the AF VR Zoom-Nikkor 80-400mm f/4-5.6D. These lenses minimise image blur caused by camera shake, and offer the equivalent of shooting at a shutter speed three stops (eight times) faster than the actual setting. The VR (Vibration Reduction) system is ideal for handheld shooting at dusk, at night, and also in poorly lit interiors. A VR lens also automatically detects when you pan — no special mode is required.

Large, bright, easy-to-see monitor display

The built-in LCD monitor lets you evaluate your pictures on the spot. The D100 LCD is a 1.8-in., 120,000-dot, low-temperature polysilicon TFT LCD monitor that displays captured images,

menus and histogram indications. The monitor is LED backlit, making it easier to see even in bright light, and displays 100% of the playback image.



Full information display

Knowing the details of a captured image is extremely helpful for postproduction tweaking, reshooting and as reference for future assignments. With the D100, you can choose to view images in one-frame or thumbnail (9 or 4) playback formats. Then, when you select a desired image, the LCD monitor displays a range of information — including camera setting, histogram indication and highlight point — pertaining to that image.

One-Touch Zoom

To confirm focusing of a shot you've taken, just press the One-Touch Zoom button and the D100 provides up to approximately 20x magnification (of an L size image).

Scrolling menu display

This menu display gives you immediate access to a range of features. Using the multi selector, you can choose the camera settings for the following menus: PLAYBACK MENU, SHOOTING MENU, CSM (custom) MENU, and SET UP.

Personalise camera operations to suit your style

The D100 provides 26 Custom Settings for your most-frequently used functions, including On-Demand Grid Line display. There are two combinations of selected settings that can be "memo-rised" by the camera and later recalled. For fast and easy operation, you can select camera set-up via the Custom Settings function on the TFT LCD monitor.

Fast and responsive data processing and transfer

The D100 is more than just compact, it's also quick. Shutter release time lag, start-up time, autofocus and image processing are all very fast. Moreover, the D100 sports a plug-and-play

USB 1.1 interface that lets you download to your computer.

Recording media compatibility

The D100 is compatible with CompactFlash™ Card and other cards in the EC-CF series, as well as IBM Corporation's MicroDrive™ 1GB and 512MB Cards.

Easy data transmission

When you connect the D100 to a computer via the USB 1.1 interface, the camera will show up on your screen as a hard disk, for fast, easy image transfer. In addition, Nikon View 5 dedicated driver software launches automatically, allowing you to selectively view, transfer, print, erase and make minor adjustments to captured images, including NEF (RAW) image files.



"Nikon View 5" Software



On-Demand Grid Lines (Custom Setting)

This precisely composed image was taken with the help of the D100's On-Demand Grid Lines display and the AF Nikkor 14mm f/2.8D ED.

Camera settings

- ◆ Exposure metering mode: 3D Matrix Metering
- ◆ Exposure mode: Aperture-Priority Auto
- ◆ Shutter Speed: 1/125 sec. ◆ Aperture: f/2.8

Nikon digital means your passport to Nikon's Total Imaging

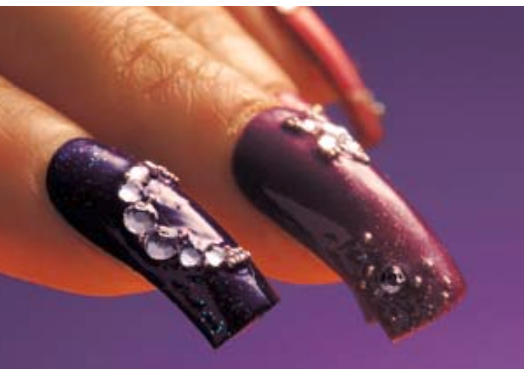
With the Nikon D100, you don't just have a great digital SLR, you have access to the comprehensive excellence of Nikon's Total Imaging System at your fingertips. This incomparable selection of tools, which encompasses Nikkor optics, Nikon Speedlights and remote control systems, Close-up Systems and exclusive Nikon software, can provide you with the backup you need to realise your personal photographic vision.

AF Nikkor Optics

With the D100, you have an exciting selection of AF Nikkor optics from which to choose. AF Nikkors are the favourite of professional photographers, worldwide — those who demand razor-sharp images, superb colour and consistently excellent autofocus performance. AF Nikkor lenses and Nikon models with compatible built-in computers communicate with each other; when you attach an AF Nikkor lens, the D100 automatically identifies the lens, and makes adjustments for optimal performance — only AF Nikkor lenses provide this benefit.

Convenient, high-performance AF Zoom-Nikkors

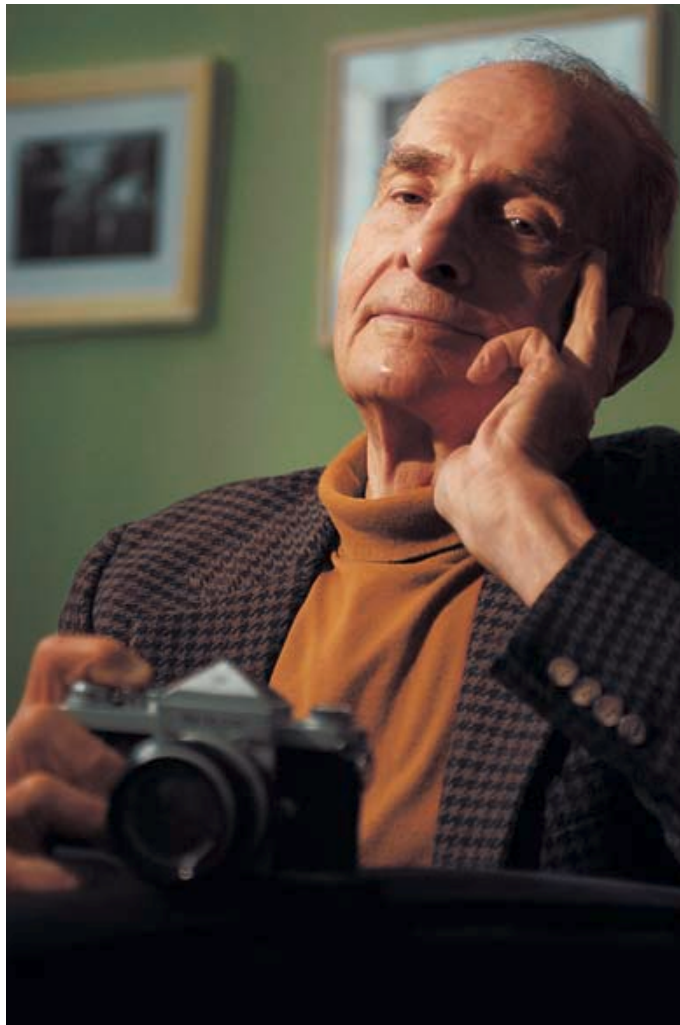
Nikon offers over a dozen AF Zoom-Nikkors. The 17-35mm and 18-35mm are popular wideangle zooms, great for landscape and travel photography, while the 70-300mm and 80-400mm zoom telephotos are ideal for sports and action. There are also compact, high-power zoom lenses like the 24-120mm (5x) or 28-200mm (7x) AF Zoom-Nikkors.



Close-up with multiple flash

The AF Micro-Nikkor 105mm f/2.8D provides up to 1:1 life-size reproduction. Here, two SB-80DXs were used. One was connected to the SC-17 remote cord for overhead lighting. This light is also reflected off the color card at the bottom. The other Speedlight provided the background illumination.

Camera settings ♦ Exposure metering mode: 3D Matrix Metering
♦ Exposure mode: Manual ♦ Shutter Speed: 1/125sec. ♦ Aperture: f/32
♦ Flash sync mode: Manual



Extensive range of wideangle and telephoto Nikkors

Wideangle Nikkors are ideal for many applications including travel, landscape and commercial photography. The 14mm f/2.8 and 18mm and 20mm f/2.8 offer the widest views, then there's a 24mm f/2.8 and the 28mm f/1.4, the fastest of the group. The 16mm Fisheye-Nikkor's unique barrel distortion provides a very special perspective.

Nikon's telephoto AF-S Nikkors cover a focal length range of 300mm to 600mm, and combine extraordinary optics with incredibly fast, quiet autofocus operation. Portrait photographers will love the 105mm and 135mm AF DC-Nikkors. Both feature fast f/2 apertures and Nikon's exclusive Defocus-image Control.

Micro Nikkor for close-ups

If close-up photography is your passion, then choose Micro Nikkor optics. The three fixed focal length AF Micro-Nikkors (60mm f/2.8, 105mm f/2.8, and 200mm f/4) enable photographers to shoot 1:1 life-size. The AF Zoom-Micro Nikkor 70-180mm lens adds flexibility to close-up photography, as it allows you to adjust

Wireless multiple-flash

This portrait was shot with the AF-S Zoom-Nikkor 28-70mm f/2.8 ED and three SB-80DXs. One Speedlight was connected to the D100 via SC-17 TTL Remote Cord to light the subject from the left, while a wireless slave flash technique was used with the other two Speedlights to illuminate the background and the subject's head.

Camera settings ♦ Exposure metering mode: 3D Matrix Metering
♦ Exposure mode: Aperture-Priority Auto
♦ Shutter Speed: 1/60 sec. ♦ Aperture: f/2.8

perspective and reproduction ratios up to 1:1.3. The PC Micro-Nikkor 85mm f/2.8 manual focus lens is equipped with a tilt/shift mechanism that lets you control image perspective, distortion and focus. With 1:2 life-size macro capability, this lens is ideal for tabletop commercial photography and excels when using Nikon's TTL flash control system.

Use Nikon Speedlights for creative flash shooting

As Nikon's most powerful and full-featured flash, the SB-80DX Speedlight provides many creative shooting options. It is compatible with D-TTL control, and features a tilt-rotate flash head, a built-in wide flash adaptor for 14mm wideangle lens coverage, a guide number of 56 (ISO 200, m at 105mm). The SB-80DX also offers a built-in modelling flash function and wireless slave flash capability, and features a new dedicated soft dome. With the compact SB-50DX Speedlight, you can do bounce flash, close-up, wireless slave flash, and use the built-in wide flash adaptor for 14mm wideangle coverage.

Nikon's multiple-flash system offers more possibilities

Nikon's professional-quality multiple-flash system makes creative lighting easy. Choose any combination of Nikon Speedlights with your D100 camera. For off-camera shooting, use the TTL remote cord SC-17. For multiple flash units, choose Multi-Flash Sync cords SC-18/19 with Sync Terminal Adaptor AS-15. You'll be amazed at what you can do with image depth, character and tone when you shoot with multiple Nikon flash units. Topping off the selection, the SB-80DX and SB-50DX can be used as wireless slave units under manual and non-TTL auto control.



System.

Nikon Capture 3 software — simply indispensable

Nikon's View 5 and Capture 3 software provides tightly knit operation that stakes out Nikon's place in your workflow. Following Capture 3 operations, you may wish to move your image into a full-featured creative software application such as Photoshop™. The move from Capture requires only a click on Capture 3's transfer icon. Nikon's workflow performance provides essential power to maximise the power of Nikon Electronic Format (NEF) files!

Nikon Capture 3 software is a powerful post-production tool, giving you comprehensive personal control over your final images, especially NEF. The intuitively designed interface

lets you download, display and modify images and even remotely control camera operations. Use Capture 3 to enhance the images you've taken with the D100 to reflect your personal photographic vision.



Multiple flash for tabletop shooting

Thanks to the PC Micro-Nikkor 85mm f/2.8D's tilt function, all the spools are in focus. And with Sync Terminal Adaptor AS-15 attached to the hot shoe, the D100 accepts studio Speedlights — one for overhead light, the other for side lighting.

Camera settings ♦ Exposure metering mode: Centre-Weighted
♦ Exposure mode: Manual ♦ Shutter Speed: 1/125sec. ♦ Aperture: f/4
♦ Flash sync mode: Manual



Long time exposure

This shot was enabled by connecting Remote Cord MC-20 to the MB-D100. The built-in Noise Reduction function works to eliminate background noise. The photographer used the fast AF-S Zoom-Nikkor 17-35mm f/2.8D IF-ED.

Camera settings

♦ Exposure metering mode: Spot Metering
♦ Exposure mode: Manual ♦ Shutter Speed: 1.3sec.
♦ Aperture: f/4 ♦ Noise Reduction: On

Perfect the image in postproduction

Nikon Capture 3's package of extensive features can be used with JPEG and TIFF, and it provides unsurpassed control for your NEF images. The Curves function lets you change the tonality and contrast of an image, while Colour Balance allows you to make essential colour corrections. You can selectively apply Unsharp Mask, while Size/Resolution allows you to adjust the final output image size. The D100's Noise Reduction function minimises random noise that can occur when shooting at higher ISO ratings like ISO 800. There's also Edge Noise Reduction, which effectively minimises colour aliasing and "jaggies" that may appear in images shot with large contrasts in colour or lighting.

You can change the attributes of a NEF file's RAW image data — including exposure (within 2 EV), Sharpening, Tone Compensation, Colour Mode, Hue Adjustment, and Saturation Compensation — using the Advanced RAW feature. Use the White Balance window to set the white balance of a RAW image either by selecting the desired colour temperature, or by clicking on a grey point of the image. Capture 3 is an essential tool that can help you realise the full power of the Nikon Electronic File; once you use NEF, except for specific technical reasons, you'll rarely use another format.

Remote control

Another great benefit of Nikon Capture 3 software is that it lets you fire the D100 remotely from your computer. In a studio situation, you can connect your camera to an AC outlet and shoot until there's no space on your hard drive. On location, you can power up your batteries and shoot to either memory or your laptop in a similar fashion. Capture 3 even offers a Time Lapse Photography function, which allows you to take a number of pictures with a fixed time delay between each one.

Note: Initially, remote control operation from Capture will be available only for Windows™ computers, this functionality will be added to Mac™ at a later date.

The D100 is ideal for making photos for the creative presentations I do.

I've got the entire Nikon System to work with. Multiple Speedlights and the PC-Micro Nikkor lens are perfect for tabletop shooting, and I can use Nikon Capture software to fire remotely from my computer.



Nikon digital means unbeatable system versatility.

■ Lens System

With the D100, you can shoot with any one of the more than 40 AF Nikkor lenses available.



■ Exclusive Nikon Software System

Nikon View 5 and Nikon Capture 3 software make post-production workflow smoother and provide many ways to perfect your images once you've clicked the shutter.



■ Speedlight System

Nikon's advanced Speedlight system defines intelligent flash performance.



■ Remote Control System

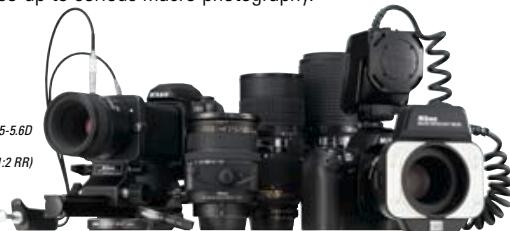
Nikon's remote shooting tools include the Cable Release AR-3, which offers one-hand shutter release. With the optional Multi-Function Battery Pack MB-D100, you can use an array of Nikon 10-pin remote connected accessories



■ Close-up System

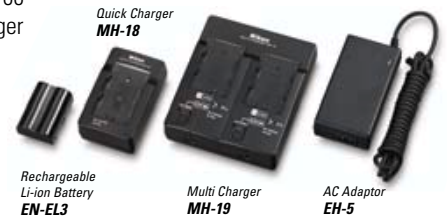
Nikon offers a close-up system for every photographic need, from general close-up to serious macro photography.

AF Zoom-Nikkor 24-85mm f/2.8-4D IF, 28-105mm f/3.5-4.5D IF (up to 1:2 RR)
AF Micro Nikkors 60mm f/2.8D, 105mm f/2.8D, 200mm f/4D IF-ED (up to 1:1 RR)
AF Zoom-Micro Nikkor 70-180mm f/4.5-5.6D ED (up to 1:1.3 RR)
PC Micro-Nikkor 85mm f/2.8D (up to 1:2 RR)
Bellows focusing attachment system (up to 1:1 RR)
TTL Macro Speedlight SB-29s
Close-up attachment lenses



■ Power Sources

When the Li-ion Battery Pack EN-EL3 is fully charged, you can take up to 1,600 images with the D100. To recharge the battery pack, Nikon offers Quick Charger MH-18 (100-240V AC) or Multi Charger MH-19 (12V DC; can be plugged into an automobile cigarette lighter). AC Adaptor EH-5 (100-240V AC) is also available.



■ Multi-Function Battery Pack MB-D100

Attaching the optional Multi-Function Battery Pack is an easy way to add shooting capability to your D100. It provides an alternative shutter release button, Main and Sub Command Dials, and an AE-L/AF-L/Focus area select button — all of which make it easier to shoot vertical-format pictures. The MB-D100 also features a voice recording/playback function and a 10-pin remote accessory terminal.



■ LCD Monitor Cover BM-2 (supplied)



■ Semi Soft Case CF-D100



Lens Compatibility Chart (IX-Nikkor lenses cannot be used)

Lens	Focusing		Exposure mode				Exposure metering mode		
	AF	Electronic Rangefinder	P mode	S mode	A mode	M mode	Matrix	Centre-Weighted	Spot
AF-S & D-/G-type AF Nikkors ⁵	✓	✓	✓	✓	✓ ²	✓ ²	✓ ³	✓	✓ ⁴
AF-S & AF-I Teleconverters ⁵	✓ ¹	✓	✓	✓	✓ ²	✓ ²	✓ ³	✓	✓ ⁴
Non-D-type AF Nikkors	✓	✓	✓	✓	✓ ²	✓ ²	✓	✓	✓ ⁴
AI-P-type Nikkors	—	✓	✓	✓	✓ ²	✓ ²	✓	✓	✓ ⁴
AI-type Nikkors	—	✓	—	—	—	✓ ¹	—	—	—
Reflex-Nikkors	—	—	—	—	—	✓ ¹	—	—	—
PC-Nikkor	—	✓ ⁵	—	—	—	✓ ¹	—	—	—
D-type PC-Nikkor ⁶	—	✓ ¹⁰	—	—	—	✓	✓	✓	✓
AI-type Teleconverters	—	✓	—	—	—	—	—	—	—

Usable lenses with built-in Speedlight

20mm to 300mm CPU lenses
Vignetting occurs at the edges of the frame resulting in underexposure with the following zoom lenses, which have limitations in usable focal length or shooting distance. AF-S 17-35mm f/2.8D IF-ED: 24mm focal length at 0.8m or longer shooting distance. AF 20-35mm f/2.8D: 20mm focal length at 1.0m or longer shooting distance. AF-S 28-70mm f/2.8D IF-ED: 28mm focal length at 2.0m or longer shooting distance, 35mm at 0.7m or longer.

- With maximum effective aperture of f/5.6 or faster.
- Aperture is selected via Sub-Command Dial.
- 3D Matrix Metering is selected.
- Metering area corresponds to the selected focus area.
- G-type Nikkor has no aperture ring. Aperture should be selected from camera body.
- Compatible with AF-S and AF-I Nikkor lenses except AF-S 17-35mm f/2.8D IF-ED, AF-S 24-85mm f/3.5-4.5G IF-ED and AF-S 28-70mm f/2.8D IF-ED.
- Camera's built-in exposure meter does not work.
- Without shift.
- The camera's exposure metering and flash control system do not work properly when shifting and/or tilting the lens, or when using an aperture other than the maximum aperture.
- Without shifting and/or tilting the lens.

Note: Picture angle approx. 1.5x lens focal length

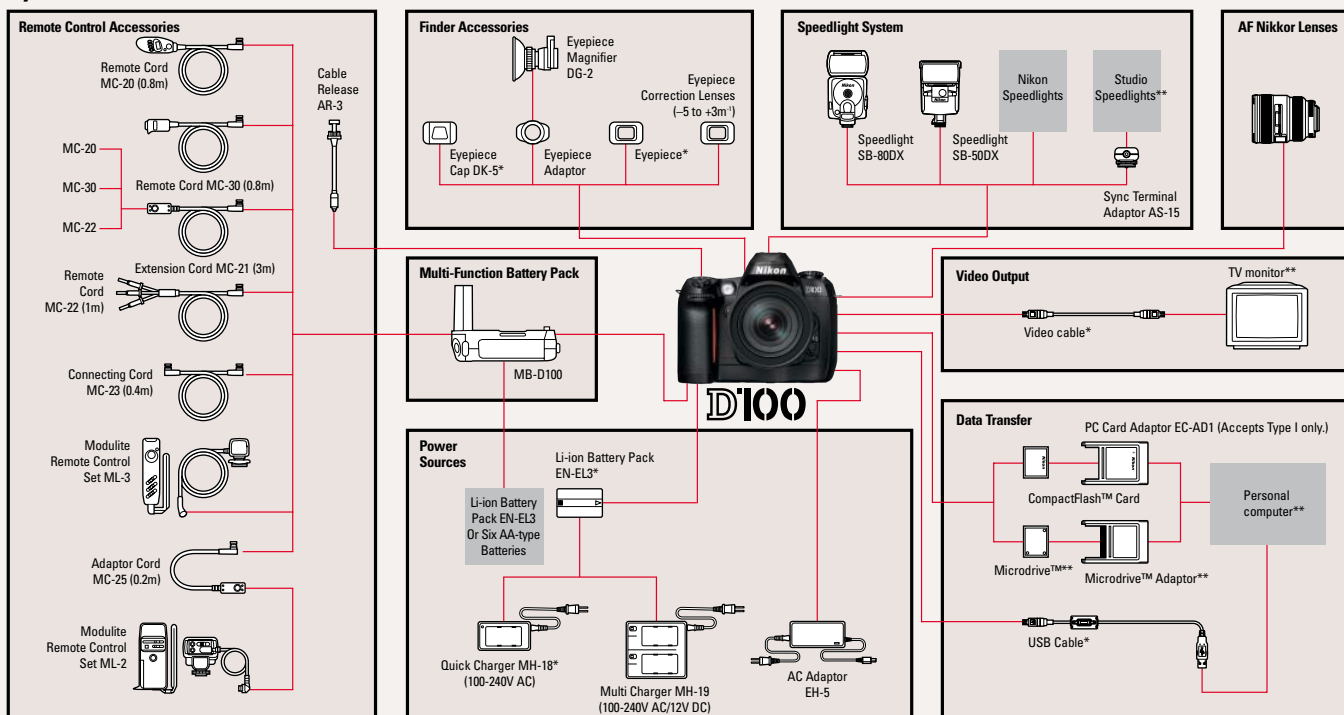
Lens' angle of view does not change; lens' perspective and reproduction ratio at a given distance and aperture is identical to when the lens is used on a 35mm SLR; the difference in viewing is a result of the smaller dimensions of the CCD compared to that of 35mm film. In effect, the image is cropped according to the CCD format.

Nomenclature



- | | | | | |
|---|---|---|---|--|
| <ul style="list-style-type: none"> 1 Flash sync mode button 2 LCD panel 3 Self-timer/AF-Assist Illuminator/Red-Eye Reduction lamp 4 Accessory shoe 5 Speedlight lock release 6 Function dial (exposure mode/ISO/white balance/image quality/AF area mode) 7 Shooting mode dial 8 Shooting mode dial lock release 9 Lens release button 10 Illuminator/Format button | <ul style="list-style-type: none"> 11 Exposure compensation button 12 Release socket 13 Sub-Command Dial 14 Shutter release button 15 Power switch 16 Depth-of-field preview button 17 Focus mode selector 18 Bracketing button 19 Flash output level compensation/Format button 20 Viewfinder 21 Dioptre adjustment lever | <ul style="list-style-type: none"> 22 AE-L/AF-L button 23 Main-Command Dial 24 Multi selector 25 Memory card cover 26 Focus area lock switch 27 Memory card access lamp 28 Monitor button 29 Menu button 30 Thumbnail button 31 Protect button 32 Enter button 33 Tripod socket | <ul style="list-style-type: none"> 34 LCD monitor 35 Delete button 36 Battery chamber cover lock release 37 DC-in connector 38 Video-out connector 39 USB connector 40 Flexible program 41 Exposure compensation 42 Flash output level compensation 43 Shutter speed/Sensitivity/Compensation value/Bracketing frames 44 Clock | <ul style="list-style-type: none"> 45 Aperture value/Bracketing step 46 Custom 47 Over 1,000 frames 48 Number of exposures remaining 49 Battery indicator 50 Image size 51 Image quality 52 Flash sync mode 53 White balance mode 54 Focus area 55 Bracketing 56 Bracketing analogue display |
|---|---|---|---|--|

System Chart



* Supplied accessories ** Non-Nikon products

Nikon Digital SLR Camera D100 Specifications

Type of Camera	Lens-interchangeable digital SLR camera Nikon D100										
Effective Pixels	6.1 million										
CCD	23.7 x 15.6mm RGB CCD; 6.31 million total pixels										
Image Size	L (3,008 x 2,000); M (2,240 x 1,488); S (1,504 x 1,000)										
Sensitivity	ISO equivalency 200–1600 in 1/3 steps (can be boosted to higher ISO equivalency)										
Storage System	Exif 2.2 file (uncompressed TIFF or compressed JPEG); uncompressed RAW (12-bit) or compressed RAW (12-bit lossless compression)										
Media	CompactFlash™ (CF) Card (Type I/II) and 512MB/1GB IBM Microdrive™										
Number of frames per 96MB CF card	(Image size: L)										
	<table border="1"> <thead> <tr> <th>RAW</th> <th>TIFF</th> <th>FINE</th> <th>NORMAL</th> <th>BASIC</th> </tr> </thead> <tbody> <tr> <td>approx. 9</td> <td>approx. 5</td> <td>approx. 28</td> <td>approx. 55</td> <td>approx. 106</td> </tr> </tbody> </table>	RAW	TIFF	FINE	NORMAL	BASIC	approx. 9	approx. 5	approx. 28	approx. 55	approx. 106
RAW	TIFF	FINE	NORMAL	BASIC							
approx. 9	approx. 5	approx. 28	approx. 55	approx. 106							
Shooting Modes	1) Single frame shooting (S) mode, 2) Continuous shooting (C) mode: approx. 3 frames per sec. (up to 6 consecutive shots with JPEG or TIFF format, 4 shots with RAW format), 3) Self-timer mode: time duration can be set										
White Balance	1) Auto (TTL control using image sensor), 2) Manual (6 settings with fine tuning), 3) Preset										
White Balance Bracketing	Captures images at three different white balance settings										
Colour Modes	3 modes available										
Colour Adjustment	+3 to -3 step for each colour setting										
LCD Monitor	1.8-in., 120,000-dot, low-temp. polysilicon TFT LCD with LED backlighting										
Playback Function	1 frame; Thumbnail (4 or 9 segments); Magnifying playback; Slide show; Histogram indication; Highlight point display										
Delete Function	Card format, All frames delete, Selected frames delete										
Video Output	NTSC or PAL (switchable)										
Interface	USB 1.1										
Viewfinder	Optical-type fixed-eyelevel pentaprism; built-in dioptre adjustment (-2 to +1 m ⁻¹); 24mm (at -1.0 m ⁻¹)										
Eyeport											
Focusing Screen	B-type Bright View Clear Matte screen II										
Viewfinder Frame Coverage	Approx. 95%										
Viewfinder Magnification	Approx. 0.8x with 50mm lens set to infinity and -1.0 m ⁻¹										
Viewfinder Information	Focus indications, Metering system, AE lock, Shutter speed, Aperture value, Exposure/Exposure compensation indicator, Exposure mode, Flash output level compensation, Exposure compensation, Number of exposures remaining										
On-Screen Information	Focus brackets, Grid lines, Reference circle for centre-weighted metering area										
Autofocus	TTL phase detection, Nikon Multi-CAM900 autofocus module with AF-assist illuminator (approx. 0.5m to 3m); Detection range: EV -1 to EV 19 (ISO 100 equivalent, at normal temperature: 20°C)										
Lens Servo	1) Single Servo AF (S), 2) Continuous Servo AF (C), 3) Manual focus (M)										
Focus Area	One of five focus areas can be selected										
AF Area Mode	1) Single Area AF, 2) Dynamic AF (Dynamic AF Mode with Closest Subject Priority is available)										
Focus Lock	Focus is locked by pressing AE-L/AF-L button or lightly pressing shutter release button in Single Servo AF (S)										
Compatible Lenses	AF Nikkor, D-type Manual-Focus Nikkor, AI-P Nikkor; Non-CPU is usable in [M] mode (camera's built-in exposure meter does not work); IX-Nikkors cannot be used.										
Picture Angle	Approx. 1.5x focal length in 35mm [135] format equivalent										
Exposure Metering	TTL full-aperture exposure metering system; 1) 3D Matrix Metering with 10-segment SPD, 2) Centre-Weighted Metering (approx. 60% of meter's sensitivity concentrated on the 8mm-dia. circle), 3) Spot Metering (3mm-dia. circle, approx. 2% of entire frame)										
Exposure Metering Range	1) Matrix Metering: EV 0-21, 2) Centre-Weighted Metering: EV 0-21, 3) Spot Metering: EV 3-21 (at normal temperature, ISO 100 equivalent, f/1.4 lens)										
Exposure Modes	1) [P] Auto-Multi Program (Flexible Program possible), 2) [S] Shutter-Priority Auto, 3) [A] Aperture-Priority Auto, 4) [M] Manual Shutter speed/aperture adjustable in 1/3 or 1/2 EV steps; ISO Automatic Control Mode (Custom setting) is available in any exposure mode (P, S, A, M)										
Exposure Compensation	Exposure can be compensated in ±5 EV range in 1/3 or 1/2 EV steps										
Auto Exposure Lock	Detected exposure value locked by pressing AE-L/AF-L button										

Auto Exposure Bracketing	Two or three shots, ± 2 EV in 1/3 or 1/2 steps
Shutter Speeds	30 to 1/4,000 sec. and Bulb
Sync Contact	X-contact only; flash synchronisation up to 1/180 sec.
Flash Control	1) D-TTL Flash (Automatic Balanced Fill-Flash controlled by five-segment TTL Multi Sensor) with built-in Speedlight and external Speedlight such as SB-80DX/28DX/50DX, three modes available, Sensitivity range: ISO 200 – 1600 equivalent 2) Non-TTL Auto Flash with an external Speedlight
Flash Sync Mode	1) Front-Curtain Sync (normal sync), 2) Red-Eye Reduction, 3) Red-Eye Reduction with Slow Sync, 4) Slow Sync, 5) Rear-Curtain Sync
Built-in Speedlight	Manual pop-up type; Guide number (ISO 200/ISO 100, m): 17/12 (D-TTL auto) or 18/12.7 (manual full output); Flash coverage: 20mm or longer lens; Recycling time: approx. 3 sec.; Sensitivity range: ISO 200 – 1600 equivalent
Ready-light	Red LED indicator inside the viewfinder
Accessory Shoe	Standard ISO-type hot-shoe contact; safety lock provided
Sync Terminal	Available in optional sync terminal adaptor AS-15
Self-timer	Electronically controlled; timer duration: 2, 5, 10 (default), 20 sec.
Depth-of-field Preview Button	Stop-down lens aperture by pressing depth-of-field preview button (Electronically controlled type)
Voice Memo	Available in optional Multi-Function Battery Pack MB-D100
Letter Input	Multi selector enables inputting of alphanumeric characters (max. 36)
Release Terminal	Available on the shutter release button
Remote Control	10-pin remote terminal available in optional Multi-Function Battery Pack MB-D100
Battery Life	Approx. 1,600 shots can be taken with a fully charged EN-EL3 * As measured with an AF-S 24-85mm f/3.5-4.5G lens at room temperature (20°C) under standard Nikon test conditions: M image size, BASIC image quality, continuous shooting mode, continuous-servo autofocus, shutter speed 1/250 sec.; shutter-release pressed halfway for three seconds and focus cycled from infinity to minimum range three times with each shot; after six shots, monitor turned on for five seconds and then turned off; cycle repeated once exposure meters have turned off.
Power Requirements	Rechargeable Li-ion Battery EN-EL3 (7.4V DC), AC Adaptor EH-5 (100-240V AC), Multi-Function Battery Pack MB-D100 [six 1.5V LR6 (AA-size alkaline)] or AA-size lithium batteries or one or two Rechargeable Li-ion Battery EN-EL3]
Tripod Socket	1/4 (ISO1222)
Custom Settings	Can be selected on LCD monitor, 26 settings (28 settings with the MB-D100 attached);

R: MENU Reset	14: Assign AE-L/AF-L Button
0: Bank Selection	15: AE Lock Button
1: Image Review	16: Illumination
2: No CF Card?	17: Focus Area Select
3: ISO Auto	18: Focus Area Illumination
4: Long Exposure NR	19: Grid Display
5: File Number Sequence	20: Dynamic AF in Single-Servo
6: Monitor Off Delay	21: Dynamic AF in Continuous-Servo
7: Auto Meter-Off Delay	22: AF Assist Illuminator
8: Self-Timer	23: Flash Mode
9: EV Step	24: Anti-mirror-shock Mode
10: Easy Exposure Compensation	25: Battery Pack AF-ON Button (with MB-D100)
11: Bracketing Set	26: Playback Volume (with MB-D100)
12: Bracketing Order	
13: Assign Command Dial	

Dimensions (W x H x D)	Approx. 144 x 116 x 80.5mm
Weight (without battery)	Approx. 700g
Supplied Accessories*	Strap, Body cap, Eyepiece cap, LCD monitor cover, Video cable, USB cable, Rechargeable Li-ion battery EN-EL3, Quick Charger MH-18, Nikon View 5 CD-ROM
Optional Accessories	Multi-Function Battery Pack MB-D100, Li-ion Battery Pack EN-EL3, Multi Charger MH-19, AC Adaptor EH-5, CompactFlash™ Cards, Speedlight SB-80DX/SB-50DX, "Nikon Capture 3" Software * Supplied accessories may differ in each country or area.

Nikon View 5 System Requirements

	Windows	Macintosh
OS	Pre-installed versions of Windows® XP (Home & Professional), Windows® 2000 Professional, Windows® Me, Windows® 98 Second Edition (SE)	Mac® OS 9.0 - 9.2 (only built-in USB ports are supported), Mac® OS X 10.1.3 or later
CPU	MMX® Pentium® 300MHz or higher performance CPU	iMac™, iBook™, Power Macintosh® G3 (Blue/White), Power Mac™ G4 or later, PowerBook® G3 (only built-in USB ports supported) or later

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WARNING TO ENSURE CORRECT USAGE, READ MANUALS CAREFULLY BEFORE USING YOUR EQUIPMENT. SOME DOCUMENTATION IS SUPPLIED ON CD-ROM ONLY.



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Exif Print
"Exif Print" is the industrial term for Exif 2.2, which is a newly established standard for Digital Still Camera Image File Format.