Nikon Digital SLR Camera D40x Specifications

Type of Camera Single-lens reflex digital camera

Effective Pixels 10.2 million

Image Sensor RGB CCD, 23.6 x 15.8mm; total pixels: 10.75 million Image Size (pixels) 3,872 x 2,592 [L], 2,896 x 1,944 [M], 1,936 x 1,296 [S]

ISO Sensitivity 100 to 1,600 in steps of 1 EV with additional setting one step over 1,600

Storage Media SD memory card, SDHC compliant Storage System Compressed NEF (RAW): 12-bit compression,

JPEG: JPEG baseline-compliant Exif 2.21, Compliant DCF 2.0 and DPOF File System

Auto (TTL white-balance with 420-pixel RGB sensor), six manual modes with White Balance

fine-tuning and preset white balance

2.5-in., 230,000-dot, low-temperature polysilicon TFT LCD with brightness adjustment **LCD Monitor** 1 frame; Thumbnail (4 or 9 segments); Magnifying playback; Slide show; **Playback Function** Histogram indication; Highlight point display; Auto image rotation

Delete Function Card format, All frames delete, Selected frames delete

Video Output

Hi-speed USB: Mass Storage and MTP/PTP selectable Interface Text Input

Up to 36 characters of alphanumeric text input available with LCD monitor and

multi selector; stored in Exif header Lens Mount Nikon F mount with AF contacts

Compatible Lenses*

Type G or D AF Nikkor

1) AF-S, AF-I: All functions supported, 2) Other type G or D AF Nikkor: All functions supported except autofocus, 3) PC Micro-Nikkor 85mm f/2.8D: Can only be used in mode M: all other functions supported except autofocus, 4) Other AF Nikkor*2/AI-P Nikkor: All functions supported except autofocus and 3D Color Matrix Metering II, 5): Non-CPU: Can be used in mode M, but exposure meter does not function;

electronic rangefinder can be used if maximum aperture is f/5.6 or faster *1. IX Nikkor lenses can not be used *2. Excluding lenses for F3AF

Picture Angle Equivalent in 35mm [135] format is approx. 1.5 times lens focal length Viewfinder Fixed-eyelevel penta-Dach mirror type; built-in diopter adjustment (-1.7 to +0.5m⁻¹)

Evepoint 18mm (-1 0m⁻¹)

Focusing Screen Type B BriteView Clear Matte screen Mark V with superimposed focus brackets

Viewfinder Frame Coverage Approx. 95% (vertical/horizontal)

Viewfinder Magnification Approx. 0.8x with 50mm lens at infinity: -1.0m⁻¹ Viewfinder Information Focus indications, AE lock indicator, Shutter speed, Aperture value, Exposure/

Exposure compensation indicator, Exposure mode, Flash output level compensation,

Exposure compensation, Number of remaining exposures, Flash-ready indicator Autofocus TTL phase detection by Nikon Multi-CAM530 autofocus sensor module with AF-assist illuminator (range approximately 0.5-3.0m/1 ft. 8 in.-9 ft. 10 in.);

Detection range: -1 to +19 EV (ISO 100 at 20°C/68°F)

1) Autofocus (AF): Instant single-servo AF (AF-S); continuous servo AF (AF-C); Lens Servo

auto AF-S/AF-C selection (AF-A); predictive focus tracking automatically activated

according to subject status, 2) Manual focus (M)

Focus Area Can be selected from three focus areas

AF Area Modes 1) Single Area AF, 2) Dynamic Area AF, 3) Dynamic Area AF with Closest Subject Priority Focus Lock Focus can be locked by pressing shutter-release button halfway (single-servo AF)

or by pressing AE-L/AF-L button Exposure Metering System TTL exposure metering system

1) 3D Color Matrix Metering II (type G and D lenses); Color Matrix Metering II (other CPU lenses); metering performed by 420-pixel RGB sensor

2) Center-weighted: Weight of 75% given to 8mm circle in center of frame 3) Spot: Meters 3.5mm circle (about 2.5% of frame) centered on active focus area

Exposure Metering Range 1) 0 to 20 EV (3D Color Matrix or center-weighted metering),

2) 2 to 20 EV (spot metering)

Digital Vari-program (Mari-program (Mari-pr **Exposure Modes**

 Child,

 Sports,
 Close Up,
 Night Portrait) Programmed Auto (P) with flexible program; Shutter-Priority Auto (S); Aperture-

Priority Auto (A); Manual (M)

Exposure Compensation ± 5 EV in increments of 1/3 EV

Exposure Lock Exposure locked at detected value with AE-L/AF-L button

Shooting Modes 1) Single frame shooting mode, 2) Continuous shooting mode: approx. 3 frames per second, 3) Self-timer mode, 4) Delayed remote mode: 2 s delay,

Electronically controlled vertical-travel focal plane shutter, 30 to 1/4,000 s in steps Shutter

of 1/3 EV, bulb

X-contact only; flash synchronization at up to 1/200 s Svnc Contact

Flash Control

1) TTL: TTL flash control by 420-pixel RGB sensor. i-TTL balanced fill-flash for digital SLR and standard i-TTL fill-flash for digital SLR available when CPU lens is used with Built-in Flash, SB-800, SB-600, and SB-400, 2) Auto aperture: Available with SB-800 with CPU lens, 3) Non-TTL Auto: Available with Speedlights such as SB-800, 80DX, 28DX, 28, 27, and 22s, 4) Range-priority manual: Available with SB-800

Flash Sync Modes

ம். ஆ. ஆ. Auto, auto with red-eye reduction; fill-flash and red-eye reduction vailable with optional Speedlight

🗷: Auto, auto slow sync, auto slow sync with red-eye reduction; slow sync and slow sync with red-eye reduction available with optional Speedlight ☐,
♣: Fill-flash and red-eye reduction available with optional Speedlight

P, A: Fill-flash, rear-curtain with slow sync, slow sync, slow sync with red-eye reduction, red-eye reduction S, M: Fill-flash, rear-curtain sync, red-eye reduction

No. Z, S, No. Z : Auto flash with auto pop-up **Built-in Flash**

P/S/A/M: Manual pop-up with button release Guide number (ISO 100, m/ft.): approx. 12/39 (manual full 13/42)

Flash Compensation Accessory Shoe

Power Source

-3 to +1 FV in increments of 1/3 FV Standard ISO hot-shoe contact with sync, signal, and ground contacts and safety lock Electronically controlled timer with duration of 2, 5, 10 or 20 s

Self-timer Remote Control

Via Wireless Remote Control ML-L3 (optional) One Rechargeable Li-ion Battery EN-EL9; charging voltage (Quick Charger MH-23):

7.4V DC, AC Adapter EH-5 (available separately; requires optional AC Adapter Connector EP-5)

Tripod Socket 1/4 in. (ISO1222)

Dimensions (W x D x H) Approx. 126 x 64 x 94mm (5.0 x 2.5 x 3.7 in.)

Approx. 495q (1 lb. 1 oz.) without battery, memory card or body cap

Supplied Accessories* Rechargeable Li-ion Battery EN-EL9, Quick Charger MH-23, USB Cable UC-E4, PictureProject, Rubber Eyecup DK-16, Camera Strap, Body Cap BF-1A, Eyepiece

Cap DK-5, Accessory Shoe Cap BS-1

Optional Accessories Wireless Remote Control ML-L3, Capture NX, Camera Control Pro, AC Adapter

Connector EP-5, AC Adapter EH-5, Video Cable EG-D100, Semi-Soft Case CF-DC1, Speedlight SB-800, SB-600, SB-400, R1C1

*Supplied accessories may differ depending on country or area.

The following SD memory cards have been tested and approved for use in the D40x:

SanDisk 64MB, 128MB, 256MB, 512MB, 1GB, 2GB*1, 4GB*1.

64MB, 128MB, 256MB, 512MB, 1GB, 2GB*1, 4GB*1,

Panasonic 64MB, 128MB, 256MB, 512MB, 1GB, 2GB*1, 4GB*1.

128MB, 256MB, 512MB, 1GB, 2GB* *1. If card will be used with card reader or other device, check that device supports 2GB and 4GB cards.

*2. SDHC compliant. If card will be used with card reader or other device, check that device supports SDHC.

Memory Card Capacity and Image Quality/Size

The following table shows the approximate number of pictures that can be stored on a 1GB Panasonic Pro HIGH SPEED memory card at different image quality and size settings.

Image quality	Image size	File size*1	Number of available shots*1	Number of consecutive shots available*1,2
RAW	-	9.0MB	79	6
	L	4.8MB	129	100
FINE	M	2.7MB	225	100
	S	1.2MB	487	100
	L	2.4MB	251	100
NORMAL	M	1.3MB	431	100
	S	0.6MB	888	100
	L	1.2MB	487	100
BASIC	M	0.7MB	839	100
	S	0.3MB	1,500	100
RAW+BASIC	-/L	10.1MB*3	70	6

- *1. All figures are approximate and assume average file size; actual file size and memory card capacity may vary with scene recorded and make of memory card.
- *2. Maximum number of frames that can be taken before shooting stops. Actual number of photos that can be taken before buffer fills may vary with make of memory card. Additional photographs can be taken as soon as enough memory is available in buffer.
- *3. Total file size of NEF (RAW) and JPEG images

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• Images on LCDs and monitors shown in this brochure are simulated. Specifications and equipment are subject to change without any notice or obligation on the part of the manufacturer. March 2007 ©2007 NIKON CORPORATION



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









UPOINT

Exif Print

TECHNOLOGY

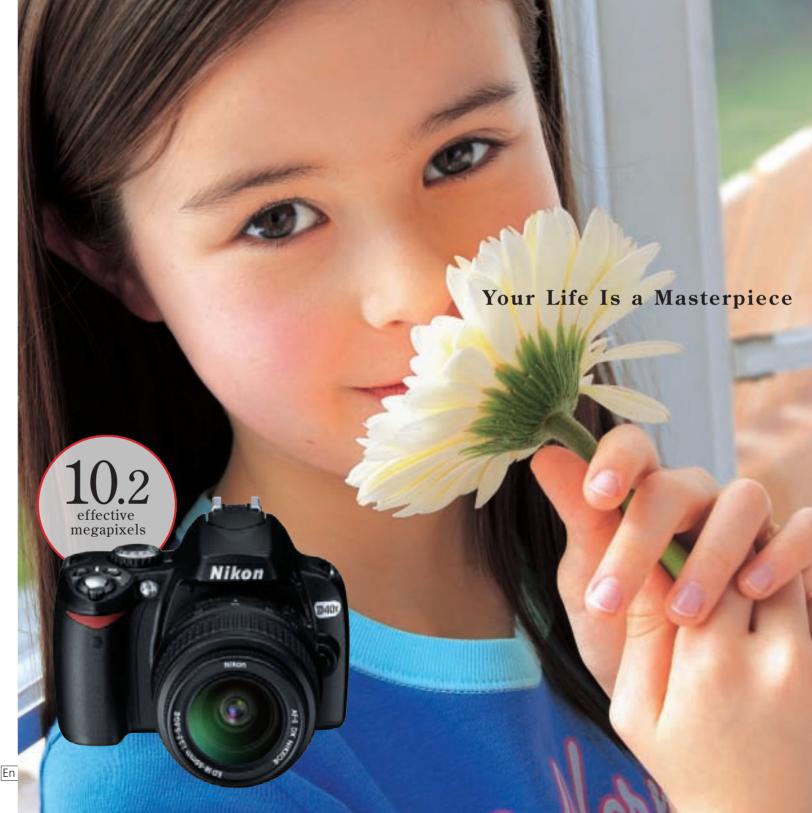






DIGITAL SLR CAMERA D210x

At the heart of the image

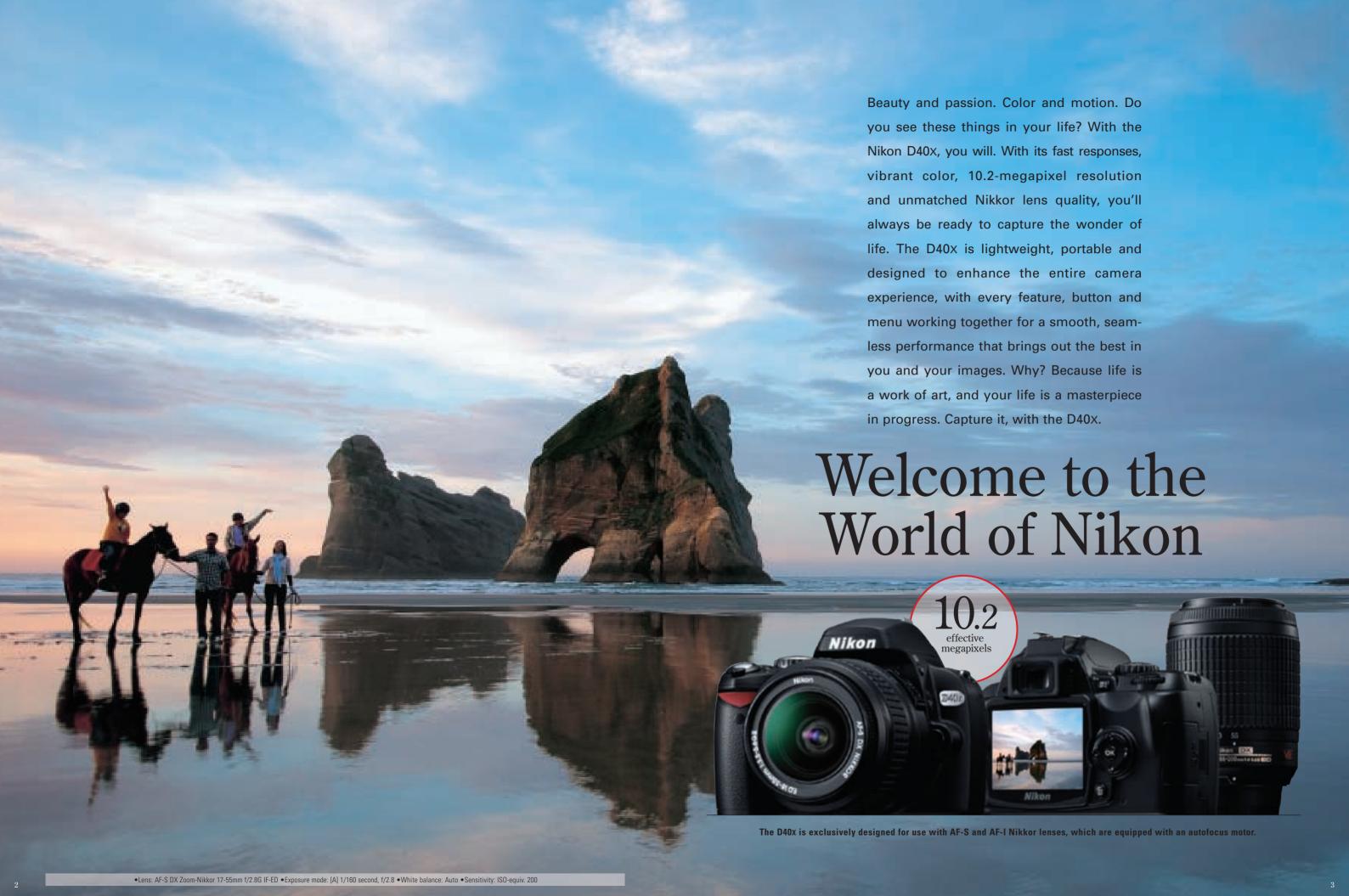




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http://nikonimaging.com/





So Refined, So Rewarding

Incredible pictures have never been simpler

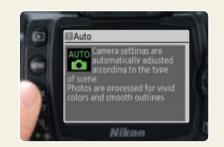


Taking great pictures doesn't have to be complicated. The D40x proves that everyone can have Nikon-quality

images and performance without sacrificing simplicity and fun. Just turn on AUTO mode, look through the clear, bright viewfinder and shoot. Powerful, high-quality, 10.2-megapixel photography has never been easier. The large 2.5-inch LCD monitor and

corresponding menus are all designed to be simple to view, share and navigate.

Use the large, bright 2.5-inch LCD monitor to reduce or enlarge your image size up to 25 times (large images).



Handy Help Menu

The D40x's help menu works like a built-in instruction manual, with advice and directions for every camera setting at the press of a button. It's easy: press the ? button on the back of the camera for detailed information about particular functions. Simple, helpful information is then displayed on the bright back LCD panel, so you're always prepared.

Nikon Exclusive Feature System #1: 3D Color Matrix Metering II

Cameras see light differently than we do, but Nikon's incredible 3D Color Matrix Metering II gets accurate and vivid colors for every photo you take, automatically. Thanks to its built-in database of over 30,000 lighting scenarios, the D40x calculates appropriate exposures for contrast, color, highlights and shadows no one else can deliver. It's like having a seasoned professional at your fingertips. Just point and shoot.





So Quick, So Confident

Life looks different when time stands still

Life is full of surprises. Are you ready for them? With the D40x, you will be. Its 0.18-second startup means there's no waiting around for the camera, and the multiple shutter speeds (up to 1/4000th of a second!) can freeze just about any action: sports, wildlife, children, even splashing water! The D40x is also equipped with a minimal shutter release time lag and a fast, razor-sharp autofocus

system, so you'll always be prepared to capture the drama of life as it happens.



High-speed Continuous

Timing is everything in photography, so why not increase your

chances of capturing the right

moment with high-speed continu-

ous shooting? Just hold down the shutter release button in continu-

ous mode and you can take up to

100 frames at as fast as 3 frames

per second. Great for sports and action pictures, as well as portraits

Shooting



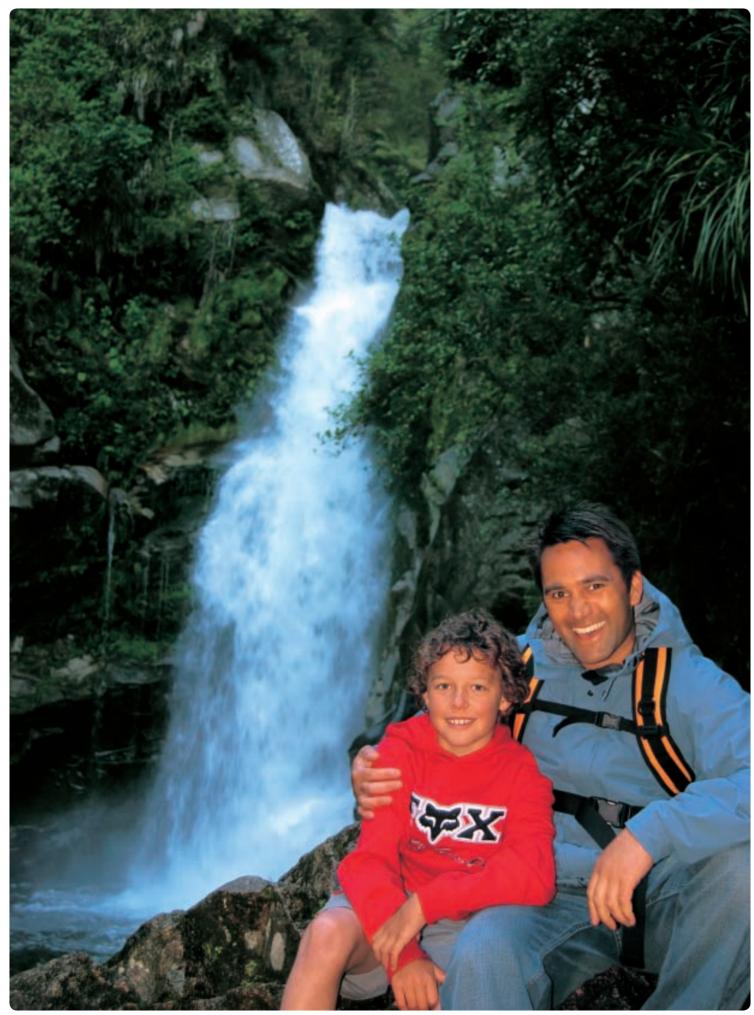




Nikon Exclusive Feature System #2: Multi-CAM 530 AF Sensor Module

Sharp focus can make or break an action shot, so when it comes to a quick focusing system, the D40x has you covered. The key is Nikon's exclusive three-area Multi-CAM 530 AF Sensor Module. Nikon's class-leading technology is at the heart of the system, so you'll get incredibly fast response. The result: pin-sharp images, even when your subjects are moving or dimly lit.





So Bright, So Brilliant

Nikon flash technology: warmth and brilliance

Great light makes great pictures. That's why the D40x uses Nikon's incredible Built-in Flash technology, ensuring soft, natural light — even



Nikon

in dark or backlit situations. The camera does all the calculations for you, and AUTO mode makes it simple: just point and shoot, and the Built-in

Flash pops up when needed to apply the right amount of light. Together with Nikon's wide array of external Speedlights, sophisticated flash photography becomes fast and fun.



Versatile Speedlight: SB-400

You'll be amazed at what a little extra light can do. The new SB-400 Speedlight was designed small, portable and easy to use. Its large guide number means it can throw light for much greater distances, and it can be tilted for the soft, natural light of a bounce flash. Nikon's exclusive i-TTL system is built-in, ensuring accurate, consistent results.



Nikon Exclusive Feature System #3: i-TTL Flash Control

Lighting used to be a delicate business, but Nikon's industry-leading i-TTL (Through The Lens) flash control technology makes it simple, quickly evaluating and calculating each scene's ideal lighting, even in difficult backlighting situations. Another picture, another calculation and another ideal exposure. Instantly. The D40x does all the work for you. It's never been easier, more accurate or more consistent thanks to Nikon's advanced technology.



So Flexible, So Versatile

CREATIVE PHOTOGRAPHY WITH A TWIST: THE D40x'S EASY MODE DIAL.

With the D40x, you can get great pictures in almost any situation.

The eight Digital Vari-Programs automatically calculate ideal settings for common shooting situations. Just select a mode appropriate

to your shooting situation and let the D40x do the rest.

Or use the P/S/A/M modes for further creative control. With P (Programmed Auto), S (Shutter-Priority Auto), A (Aperture-Priority Auto) and M (Manual) modes, you can control shutter speeds or apertures and determine exposure compensation, metering and white balance options. You can also turn the flash on or off, control the flash mode and determine the flash level.



AUT0: This automatic "point-and-shoot" mode lets you concentrate on getting the shot. Settings are controlled automatically to match shooting conditions.

•Lens: AF-S DX Zoom-Nikkor 18-55mm f/3.5-5.6G ED II •Exposure mode: [AUTO] 1/125 second, f/5.6 •White balance: Auto •Sensitivity: ISO-equiv. 200



Auto (Flash Off): Low light doesn't have to mean dark pictures. The Auto (Flash Off) mode automatically disables the Built-in Flash and boosts the camera's light sensitivity, letting you capture the ambiance of available light or capture photos where flash photography isn't an option.

•Lens: AF-S DX VR Zoom-Nikkor 55-200mm f/4-5.6G IF-ED •Exposure mode: Digital Vari-Program [Auto (Flash Off)] 1/200 second, f/4.2 •White balance: Auto •Sensitivity: ISO-equiv. 100



Portrait: Sophisticated portraits are easy in this mode. The background will soften while your subject stays sharply focused in the foreground. The result is stylish, professional-looking images of your loved ones.

•Lens: AF-S DX VR Zoom-Nikkor 55-200mm f/4-5.6G IF-ED •Exposure mode: Digital Vari-Program[Portrait] 1/200 second, f/5.6 •White balance: Auto •Sensitivity: ISO-equiv. 100



Landscape: Ideal for a great perspective on beautiful scenery, this mode offers sharp, clear landscape pictures with optimized greens and blues.

•Lens: AF-S DX Zoom-Nikkor 18-55mm f/3.5-5.6G ED II •Exposure mode: Digital Vari-Program [Landscape] 1/160 second, f/9 •White balance: Auto •Sensitivity: ISO-equiv. 400



Child: This mode ensures natural skin tones set against vividly rendered clothing and background details. Images here are expressive, sharp and endearing.



Sports: Capture motion clearly with Sports mode. The camera tracks your subject, adjusting the focus with split second response, freezing action for incredible sports and motion chats.

• Lens: AF-S DX VR Zoom-Nikkor 55-200mm f/4-5.6G IF-ED • Exposure mode: Digital Vari-Program [Sports]
1/320 second, f/5.6 • White balance: Auto • Sensitivity: ISO-equiv. 400



Close Up: Discover the beauty in details. Flowers, coins, insects and other small treasures take on new meaning when seen in Close Up mode, which renders a detailed foreground, while softening the background for subjects that truly stand out.

Lens: AF-S VR Micro-Nikkor 105mm f/2.8G IF-ED •Exposure mode: Digital Vari-Program [Close Up] 1/100 second, f/3.2 •White balance: Auto •Sensitivity: ISO-equiv. 400



•*

Night Portrait: This mode focuses on the closest subject in a low-light situation and then calculates a balanced exposure for both the foreground and the background. For the sharpest pictures, a tripod is highly recommended.

•Lens: AF-S DX VR Zoom-Nikkor 18-200mm f/3.5-5.6G IF-ED •Exposure mode: Digital Vari-Program [Night Portrait] 1 second, f/3.8 •White balance: Auto •Sensitivity: ISO-equiv. 100 •Built-in Flash: TTL



So Helpful, So Capable

All the versatility, simplicity and functionality you need for great pictures



Perfect for self-portraits, or long exposures when touching the shutter release button could cause camera shake, the optional Wireless Remote Control ML-L3 is cordless, allowing you to release the shutter from a distance.



At only 495q*, this small, light, compact camera body is designed to comfortably fit to your hand, with a sure grip and easy access to controls.

*Without battery memory card or body cap



Exposure compensation

Exposure compensation is available with P/S/A/M modes and can be very important for properly exposed pictures of extremely bright or dark subjects. Increase the compensation for accuracy with extremely bright colors. For scenes dominated by dark colors, simply lower the compensation for pictures as your own eyes see them.





Long-lasting battery

Information display formats

Choose the format you like — Classic. Graphic or Wallpaper — for Digital Vari-Program and P/S/A/M modes.



Simpler, streamlined operation

Fewer buttons, fewer complications. The D40x's streamlined design gives great photography a newfound simplicity. To show pictures on the LCD monitor, simply press the **b** button. Press the MENU button to display, change or select features and settings via the bright, clear LCD. Use the **Q** and **⊕** buttons to reduce and enlarge the size of the images. You can even view up to nine thumbnail-sized pictures at once.

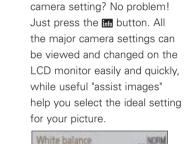
Clear, simple viewfinder The D40x's bright, sharp optical view-

AE-L/AF-L button

Multi selector

finder helps you achieve ideal compo-

Shooting information



Easy setting changes

Want to learn more about each

with assist images



1. Press info button to show shooting information. Then press button to choose a setting



2. See assist images for your reference and press a button when you make your selection

The Rechargeable Li-ion Battery EN-EL9 lets you take up to 520 shots per charge (CIPA Standards). And optional AC Adapter EH-5 can be used to power the camera for extended periods (AC Adapter Connector EP-5 required — available separately).

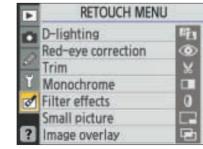
Broad ISO sensitivity range

Your D40x has a wide range of ISO settings: from 100 to 1600, plus one step higher (HI 1). The result: faster shutter speed capability and beautiful images without a flash in many low-light situations, all free of blur from camera-shake or subject movement.



Retouch menu

Take advantage of the amazing in-camera image editing features built into the Retouch menu. The D40x makes it easy to crop, edit and enhance your images, all without the use of a computer. The Retouch menu includes Red-eye correction for correcting the red-eye effect caused by flash, Filter effects for changing an image's color balance and Image overlay for creating a double-exposure out of two selected RAW images. Simply select an image,



There are seven different types of in-camera editing functions available with the D40x

choose an effect and press on, and your new image is created and saved additionally on the memory card, leaving the original image intact.



Monochrome: Give any in-camera image monochrome effects such as black and white, sepia tone (like antique photos) and cyanotype (B&W with a blue tint).

D-lighting: This amazing feature enhances the brightness and contrast of any in-camera image. Now pictures that were "almost perfect" can be even better. Ever had a picture where the faces were too dark? D-lighting may be the solution. It works wonders on pictures

125 FSB

taken in low light, mixed lighting or backlighting, adding extra punch to drab indoor images and drawing out colors muted by poor



So Much Fun, So Much Freedom

Expand your horizons further with more lenses, software and accessories



Capturing Distant Subjects Is a Breeze

Loaded with powerful 3.6x zooming capability in a light and compact body, the new, affordable AF-S DX VR Zoom-Nikkor

55-200mm f/4-5.6G IF-ED lens helps

you get closer to the excitement. It's ideal for capturing sports, wildlife and the great outdoors. And since Nikon's advanced VR technology is built in, you can minimize the problem of camera shake common when shooting with a telephoto lens.

*The D40x is designed for AF-S and AF-I CPU lenses equipped with an autofocus motor. Moreover, most of the world-famous F-mount Nikkor enses can be used with manual focus

•Lens: AF-S DX VR Zoom-Nikkor 55-200mm f/4-5.6G IF-ED •Exposure mode: [S] 1/2500 second, f/5.6





Nikon's dependable Vibration Reduction (VR) system

Even in low light, Nikon's exclusive VR system helps prevent blur caused by camera movement. The VR system is built into the lens, not in the camera body, which means each VR lens can work on its own optimized algorithms, and you get a steady view while composing. The result: accuracy, efficiency and remarkably sharp pictures.





•Lens: AF-S DX VR Zoom-Nikkor 55-200mm f/4-5.6G IF-ED •Exposure mode: [M] 1/100 second. f/5 • White balance: Auto • Sensitivity: ISO-equiv. 100

Let Your Ideas Shine with Nikon's **Creative Lighting System**

When you're ready for more creative flash photography, try the Nikon Creative Lighting System's SB-800 and SB-600 Speedlights. Simple and intuitive, they make the procedures of advanced, wireless and multipleflash photography much easier than you might think. And with Nikon's reliable i-TTL flash control, you can always expect consistently accurate exposures.





into a personal computer and you'll be able



Nikon's PictureProject comes with every D40x, helping digital photographers of any level organize, enhance and share their images quickly and easily. The software makes uploading and sharing your images be fun and intuia simple, seamless experience, while placing basic post-production features like Redeve correction and color enhancement at your fingertips. Just install PictureProject

to print, adjust color and brightness, email photos and upload them to an online community. You can even create slideshows with your favorite music! It's designed to

PictBridge lets you print pic-

tures directly from your cam-

era. It's fun. fast and simple:

printer using the supported

just connect to any compatible

tive without being overly technical, so enjoy your images. PictureProject shows you how!







The key to this amazing piece of software is exclusive U Point™ Technology, by Nik Software, which makes both radical and subtle image enhancements as easy as a few clicks. Want the sky a

more vivid blue? No problem. Want warmer skin tones? Easy. Capture NX does all the calculations for you, which makes it the first piece of postproduction software that nearly anyone can master quickly and easily.



