Elevate Your Photography to Beautiful New Heights
A moving experience in digital photography that everyone can enjoy.

Easily capture the beauty of life’s fleeting moments with the new D3100. A feature-rich digital SLR camera that surprises you with simplicity, and positively delights with superb results. Whether shooting casual snapshots, a delicately composed still life or full HD movies, you’ll love the ease with which D3100 does it all.
The camera that amazes.
Shoot with D3100 and enjoy the beauty.

**Softly defocused backgrounds that only a D-SLR can produce**

- **DX-format, 14.2 effective megapixel CMOS image sensor**

Nikon equipped D3100 with a newly developed CMOS sensor for outstanding subject detail and smooth-color gradation. Whether shooting photos or Full HD movies, the sensor is crucial to image quality. The high pixel count of D3100’s sensor produces photos of striking clarity, revealing all the nuance of the original scene with minimum noise — ideal for intricately detailed textures and grain-free background defocus.

**Faithful color reproduction and smooth, beautiful gradations**

- **EXPEED 2 — Nikon’s new image processing engine**

Welcome to a new level of excellence with EXPEED 2. We’ve leveraged our vast technological know-how to bring you Nikon’s most advanced image processing engine yet. EXPEED 2 maximizes CMOS sensor performance for clear, lifelike images that exhibit vivid colors, reduced noise and smooth tonal gradations for outstanding photos and movies.

**Great performance and less blur in dimly lit settings**

- **ISO sensitivity 100–3200 (expandable to ISO 12800 equivalent)**

A maximum ISO of 3200 (standard range) lets you shoot at fast shutter speeds, reducing camera-shake blur in dimly lit scenes. Twilight and indoor shots come alive with a refreshingly natural look without the need for a tripod or flash. Moreover, fast shutter speeds make it easy to freeze action in dynamic situations such as children at play and sports events. For added versatility, D3100’s Hi 1 and Hi 2 settings effectively boost ISO to the equivalent of 6400 and 12800, respectively.

**Dazzling Low-light Photos**

- Lens: AF-S DX NIKKOR 18-55mm f/3.5-5.6G VR
- Exposure: Aperture priority auto, 1/125 second, f/5.6
- White balance: Auto
- ISO sensitivity: 100
- Picture Control: Vivid
Guide Mode – The sure way to obtain desired results

An enchanting portrait against a softly defocused background, or a radiant couple surrounded by sparkling lights. Taking photos like these is easy with D3100’s Guide Mode — in-camera guidance that shows you step-by-step how to change camera settings. Just select a Guide Mode setting that matches the scene then let Guide Mode assist. Not only will you obtain the desired results, you'll understand how you achieved them. Guide Mode even displays sample photos so you'll know what to expect from each setting.

**Assist image displays a sample photo that reflects camera settings.**

### Easy operation
- Auto
- No flash
- Distant subjects
- Close-ups
- Sleeping faces
- Moving subjects
- Portraits
- Night portrait

### Advanced operation
- Soften backgrounds
- Bring more into focus
- Freeze motion (people)
- Freeze motion (vehicles)
- Show water flowing

**Shoot**
- Use the viewfinder
- Use live view
- Shoot movies

**Select**
- Lens: AF-S DX NIKKOR 35mm f/1.8G
- Exposure: Aperture priority auto, 1/1600 second, f/2.2
- White balance: Auto
- ISO sensitivity: 400
- Picture Control: Portrait

Enjoy the Ease

Effortless Shooting

The camera that teaches you how...
Let D3100 satisfy your dreams of better photos.
The joy of simplicity.
Shooting great photos and full HD movies was never so easy.

New AF modes capture moving subjects

Live View with new AF modes and large 3-in. monitor

- Live View gives an intuitive, familiar way to photograph playful pets or children on the move. Just flip a switch and you’re ready to go. When Live View is activated and new Full-time-servo AF (AF-F) is selected, the camera keeps subjects in focus without having to press the shutter-release button — convenient for photos and movies. There is also new Face-priority AF that locks focus on faces, even on people not directly facing the camera. Live View makes D3100 as easy to use as a compact camera.

- Full-time-servo AF (AF-F)
  Autofocus automatically begins after Live View is activated, tracking the subject continuously without having to press the shutter-release button. Note: When shooting movies, noise from the lens motor may be recorded.

- Face-priority AF
  The camera can recognize up to 35 faces at a time then focus on the face that is determined to be nearest. Even if people in the frame move, the camera continues tracking and focusing.

Letting D3100 decide the best mode to match the scene

- Scene Auto Selector
  D3100 automatically selects the Scene Mode that matches the shooting situation and subject. During Live View shooting with the Mode dial on Auto or Auto (flash off), Scene Auto Selector automatically activates Portrait, Landscape, Close up or Night portrait modes depending on the scene. For added convenience, an icon appears in the top-left corner of the LCD monitor that shows the selected mode.

- D-Movie — Full high-definition quality
  Discover the difference a digital SLR makes when shooting movies. A wide selection of NIKKOR lenses gives you freedom to explore different angles and obtain lovely defocused backgrounds while D3100’s advanced imaging system assures outstanding quality. And for action sequences, new Subject-tracking AF keeps subjects properly focused. After the shoot, view movies on the large 3-in. LCD monitor and perform simple editing tasks like trimming scenes before or after a designated point and extracting still images. HDMI compatibility lets you connect D3100 to an HDTV with playback managed by the TV’s remote control.

High-quality full HD movies and still images can be viewed on HDTVs.

Cable: Type C mini-pin HDMI cable (available separately from third-party suppliers).

Lens: AF-S DX NIKKOR 18-55mm f/3.5-5.6G VR
Exposure: Sports mode, 1/500 second, f/5.3
White balance: Auto
ISO sensitivity: Auto (900)
Picture Control: Standard

* Except when using manual focus.
** Selected when the camera identifies situations with no corresponding Scene Mode, or for situations that can be shot in Auto or Auto (flash off).
Intelligent operation in any setting

**Scene Recognition System**

Nikon's exclusive Scene Recognition System utilizes a 420-pixel RGB sensor to analyze a composition immediately before you take the shot. It then automatically optimizes exposure, autofocus, and white balance, allowing you to obtain beautiful photos without the hassle of making complicated camera adjustments yourself. Face detection also benefits from Scene Recognition System, exhibiting improved recognition accuracy and definition as well as enabling instant zoom-to-face in playback mode.

**Active D-Lighting**

Shooting in bright sunlight often produces pictures with extreme contrast between light and dark areas, resulting in loss of tone and detail. Active D-Lighting effectively combat this by preserving important details in shadows and highlights. The results are optimally exposed photos that better reflect the scene as you saw it.

Quick, accurate autofocus ready for the decisive moment

**11-point AF system**

D3100’s precision high-speed autofocus responds immediately to changes in scene or composition, maintaining tack-sharp focus to capture fleeting expressions and fast-moving sports. The all-important central focus point features a cross-type sensor while the new superimposed display achieves a clear, undistorted viewfinder. Various autofocus modes cover nearly any situation, including auto-area AF that automatically selects the subject on which to focus, and 3D-tracking* that maintains focus on a subject regardless of changes in composition as long as the shutter-release button is pressed half way.

Customizing images before the shot

**Picture Control**

Expand creative expression with Picture Control. Six settings — Standard, Neutral, Vivid, Monochrome, Portrait and Landscape — let you determine the look of photos and full HD movies before you shoot. In addition, sharpness, contrast, brightness and saturation can be adjusted to customize settings.

In-camera image and movie editing

**Ample image and movie editing functions**

Heighten your photographic enjoyment with D3100’s wide range of image and movie editing functions. Operations like Red-eye correction, Quick retouch, and Filter effects can be done in-camera, eliminating the need for a PC and enhancing convenience. You can also extract still images from movies and trim unnecessary frames.
Easy operation and take-anywhere portability

**Compact and lightweight**

At only approx. 1 lb. 1.8 oz.*, the compact and lightweight D3100 goes wherever you go. And it’s so easy to use thanks to the ergonomic grip that simplifies shooting, both in horizontal and vertical positions. New dedicated controls for frequently used functions like Live View, D-Movie and shutter release modes further enhance ease of use.

* With battery and memory card but without body cap.

Additional light whenever needed

**Built-in pop-up flash**

When the light gets low or you find yourself shooting in tricky backlit lighting, use the built-in pop-up flash to brighten the scene. It activates automatically when needed depending on exposure mode*, or can be enabled manually. In addition, support for i-TTL flash control increases exposure accuracy.

* When Scene Mode is set to Auto, Portrait, Child, Close-up or Night portrait

Prevent dust from ruining photos

**Nikon Integrated Dust Reduction System**

D3100 is equipped with Nikon’s Integrated Dust Reduction System. This solution includes a special Airflow Control System that redirects dust away from the low-pass filter located in front of the image sensor. Additionally, when powering the camera on or off, the filter automatically vibrates at precise frequencies to release image-degrading dust that may adhere to it.

View photos with striking special effects

**Image playback with transitions**

Choose from a series of special transitions when viewing photos. For slideshows, enjoy interesting effects like Zoom/ Fade and Cube. When viewing photos individually, you can employ Slide in and Zoom/Fade. In addition, the large, bright LCD monitor makes playback a joy.

NIKKOR lenses.
The right choice for amazing photos and full HD movies.

**More ways to see the wonders of the world**

**High-performance NIKKOR lenses**

Approx. 5.5x telephoto zoom lens with VR — Capture faces from afar

35 mm prime lens — For softly defocused backgrounds

55 mm 200 mm 300 mm

AF-S DX NIKKOR 55-300mm f/4.5-5.6G ED VR

AF-S DX NIKKOR 35mm f/1.8G

55 mm micro lens — Easy hand-held macro photography

AF-S DX Micro NIKKOR 85mm f/3.5G ED VR

Approx. 5.5x telephoto zoom lens with VR — Capture faces from afar

55 mm 200 mm 300 mm

AF-S DX NIKKOR 55-300mm f/4.5-5.6G ED VR

AF-S DX NIKKOR 35mm f/1.8G

55 mm micro lens — Easy hand-held macro photography

AF-S DX Micro NIKKOR 85mm f/3.5G ED VR

Note: The D3100 is exclusively designed for use with NIKKOR AF-S and AF-I lenses that are equipped with an autofocus motor.

NIKKOR VR lenses reduce * blur in photos and full HD movies caused by camera shake that often occurs when shooting at slow shutter speeds, such as in dimly lit environments or when using micro or telephoto lenses. Unlike in-camera image stabilization systems, Nikon’s VR is in the lens, which allows it to correct blur in the viewfinder thereby aiding composition and focusing since the image remains stable.

* VR offers shooting handheld at three stops slower than non-VR lenses, based on Nikon measurements. Amount of correction varies depending on shooting conditions and photographer.
Smart image management with a PC

• ViewNX 2 software — Your imaging toolbox (bundled) NEW

ViewNX 2 is the convenient way to manage images, providing functions for storing, browsing, editing and sharing photos as well as movies. You can also attach labels to images to facilitate searches. This bundled software offers a wide range of editing functions, including rotate, re-size, crop, straighten, auto red-eye correction and more. Movie editing functions include the ability to delete scenes. ViewNX 2 integrates seamlessly with my Picturetown for simple, drag-and-drop uploads and online browsing.

Intuitive operation for the finishing touch

• Capture NX 2 software — Expanded creative control (sold separately)

Capture NX 2’s easy-to-learn editing tools unlock image potential without degrading original image quality. This software is ideal for optimizing Nikon NEF (RAW) images. Based on Nikon’s advanced technology, tedious editing procedures are easier than ever.

Share photos and movies on the web

• my Picturetown — Free image sharing and storage

Nikon’s own image sharing website allows you to easily store, manage and share images with family and friends worldwide. Membership is free and permits storage of up to 2 GB of photos and/or movies. (Pay an additional fee and get up to 200 GB of storage*). The service supports MOV and AVI movie files in addition to JPEG and RAW (NEF, NRW) still image files. Heighten your photographic enjoyment with my Picturetown!

http://www.capturernx.com

http://www.myPicturTown.com

* Availability and fee may vary depending on country.

Note: Website design may change without prior notice.

System Chart

- Parts and Controls
- System Chart
- Approach to photo and movie shooting

Approved memory cards

The following 4 GB memory cards have been tested and approved for use in the D3100. Cards with class 6 write speeds are recommended for movie recording. Recording may not unexpectedly when cards with slower write speeds are used. Contact Nikon Customer Service for additional information.

Notes:

*1 Check that any card readers or other devices with which the card will be used support 2 GB cards.

*2 Check that any card readers or other devices with which the card will be used are SDXC-compliant.

*3 Cards with class 6 write speeds are recommended for movie recording. Recording may not unexpectedly when cards with slower write speeds are used.

*4 Based on CIPA standards.

*5 Certain types of SD cards are not supported. Check with your Nikon dealer or local Nikon representative for details.

*6 Cards must be formatted with the D3100. SDHC cards designed to be used only in digital video cameras may not be recognized by the D3100. Formatting is recommended using the D3100.

*7 Long-lasing lithium-ion battery included. The rechargeable EN-EL14 battery (Nikon) delivers up to approximately 200 frames on a single charge.

*8 Based on CIPA standards.
Nikon Digital SLR Camera D3100 Specifications

Focus
- **Autofocus**
  - Nikon Multi-CAM 1000 autofocus sensor module with TTL phase detection
  - 11 focus points (including 1 center focus point with AF tracking)

- **Manual focus**
  - Available in auto and auto (flash off) modes

Exposure modes
- Matrix: 3D color matrix metering II (type G and D lenses); color matrix metering II (other CPU lenses)
- Spot: Meters 3.5-mm circle (about 2.5% of frame) centered on selected focus point
- Center-weighted: Weight of 75% given to 8-mm circle in center of frame

Flash control
- Approx. 24/32 for manual flash (ISO 100, 200°)

Flash compensation
- 0 to ±3 EV in increments of 1/3 EV

Flash-ready indicator
- Lights when built-in flash or optional flash unit such as SB-900, SB-800, SB-600, or SB-400 is fully charged and ready to fire 3 s after flash is fired or fully recharged

Flash-sync speed
- 1/200 s; synchronizes with shutter at 1/200 s or slower

AF-area modes
- Single-point AF
- Dynamic-area AF
- Auto-area AF
- Distance-priority manual

Flash compensation
- Auto, auto with red-eye reduction, fill-flash, auto slow sync, auto slow sync with red-eye correction, and rear-curtain sync

Storage
- SD (Secure Digital), SDHC and SDXC memory cards

Video
- HDMI output: Type C mini-pin HDMI connector
- NTSC, PAL

Live View
- Full-frame and thumbnail (4, 9, or 72 images or calendar) playback with playback zoom, movie playback, slide show, histogram display, highlights, auto-image rotation, and image comment (up to 36 characters)

Viewfinder
- Type B BriteView Clear Matte Mark VII screen
- Eye-level pentamirror single-lens reflex viewfinder
- Image size (pixels): • 4,608 x 3,072 [L] • 3,456 x 2,304 [M] • 2,304 x 1,536 [S]

Playback function
- Full-frame and thumbnail (4, 9 or 72 images or calendar) playback with playback zoom, movie playback, slide show, histogram display, highlights, auto-image rotation, and image comment (up to 36 characters)

Subject detection
- Based on information communication supported with built-in flash and all CLS-compatible flash units

White balance
- Auto, incident, fluorescent (7 types), direct sunlight, flash, cloudy, shade, preset manual; all except preset manual with fine tuning

Picture Control System
- Standard, Neutral, Vivid, Monochrome, Portrait, Landscape; selected Picture Control can be modified

White balance correction
- • Auto (Auto) • Auto with red-eye reduction • Fill-flash • Auto slow sync • Auto slow sync with red-eye correction • Rear-curtain sync

Dust filter
- Instant return, electronically controlled

Exposure compensation
- 0 to ±5 EV in increments of 1/3 EV

Playback
- Full-frame and thumbnail (4, 9, or 72 images or calendar) playback with playback zoom, movie playback, slide show, histogram display, highlights, auto-image rotation, and image comment (up to 36 characters)

Video standard
- H.264/MPEG-4 Advanced Video Coding

Audio recording device
- 3-in., approx. 230 k-dot TFT LCD with brightness adjustment

Supported languages
- Chinese (Simplified and Traditional), Czech, Danish, Dutch, English, Finnish, French, German, Indonesian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish, Turkish