Nikon

At the heart of the image ™

D3100 ™

Elevate Your Photography to Beautiful New Heights

Enjoy the Beauty

Enjoy the Ease

- DX-format, 14.2 effective megapixel CMOS image sensor
- EXPEED 2 – Nikon's new image processing engine
- ISO sensitivity 100-3200 (expandable to ISO 12800 equivalent)
- Guide Mode
- D-Movie – Full HD 1080p movie shooting
- 3-in. monitor and Live View shooting

NEW

D3100

• Lens: AF-S DX NIKKOR 18-55mm f/3.5-5.6G VR • Exposure: Shutter priority auto, 1/2000 second, f/6.3 • White balance: Auto • ISO sensitivity: 200 • Picture Control: Vivid

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 `NEW`

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.
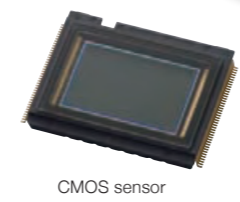
CMOS sensor

Faithful color reproduction and smooth, beautiful gradations

EXPEED 2

### • EXPEED 2 – Nikon's new image processing engine `NEW`

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.
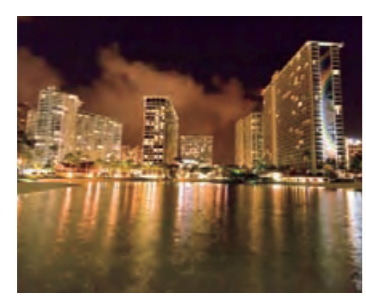
Hi 2 (ISO 12800 equivalent)　　ISO 3200　　ISO 1600

• 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

The camera that teaches you how...
Let D3100 satisfy your dreams of better photos.

Effortless Shooting

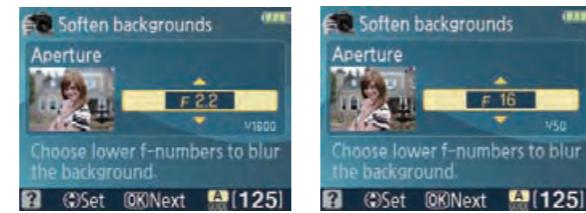## Guide Mode – The sure way to obtain desired results

Guide Mode

GUIDE

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.

GUIDE MODE

Shoot | View/delete | Set up

Nikon

Assist image displays a sample photo that reflects camera settings.

Soften backgrounds
Aperture
F 22
1/1600
Choose lower f-numbers to blur the background.
Set | Next | [125]

Soften backgrounds
Aperture
F 16
1/50
Choose lower f-numbers to blur the background.
Set | Next | [125]

Select

Easy operation

- Auto
- No flash
- Distant subjects
- Close-ups
- Sleeping faces
- Moving subjects
- Landscapes
- Portraits
- Night portrait

Advanced operation

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

Shoot

Use the viewfinder

AUTO ISO-A 100
1/60 F4
AUTO GUIDE Set [125]

Use live view

AUTO AF-S NORM A
1/125 F5.6 AUTO [125]

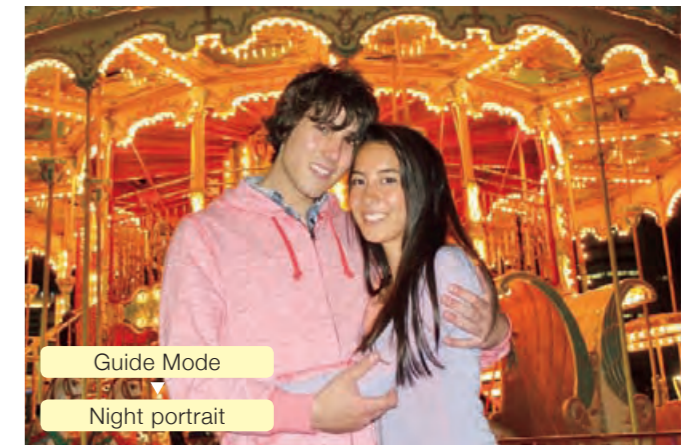### Shoot movies

AUTO AF-S NORM A
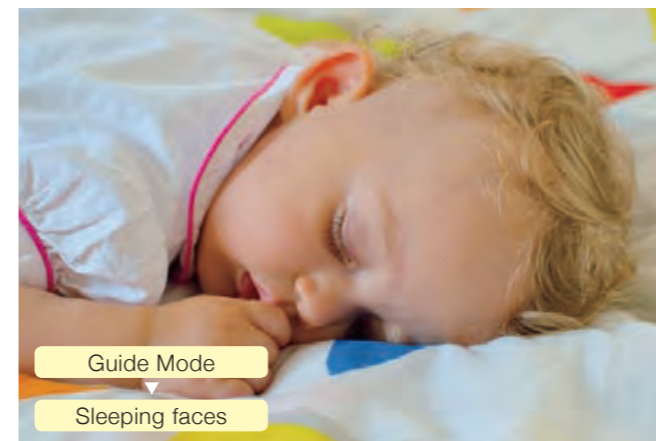1/125 F5.6 AUTO [125]

Guide Mode
Soften backgrounds

• 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

Guide Mode
Close-ups

Guide Mode
Night portrait

Guide Mode
Sleeping faces

Guide Mode
Landscapes

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 you 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.

Large 3-in. monitor

Full-time-servo AF (AF-F) NEW

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.
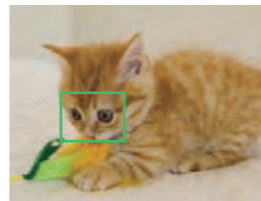
Face-priority AF

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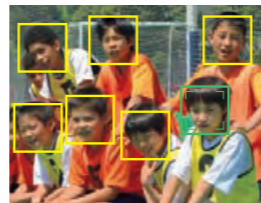
• Lens: AF-S DX NIKKOR 18-55mm f/3.5-5.6G VR • Exposure: Sports mode, 1/500 second, f/5.3 • White balance: Auto • ISO sensitivity: Auto (900) • Picture Control: Standard

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.

AUTO	Auto**	Auto (flash off)**	Landscape
	Close up	Portrait	Night portrait
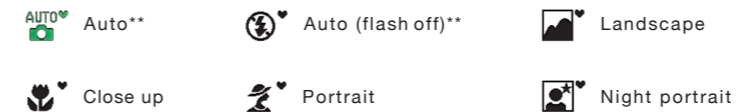
* Except when using manual focus.
** Selected when the camera identifies situations with no corresponding Scene Mode, or for situations that can be shot in Auto or Auto (flash off).

Mode dial on Auto; Scene Auto Selector activates Landscape mode.

Breathtaking full HD 1080p movies

● D-Movie — Full high-definition quality NEW

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**.

* Via HDMI miniport. ** HDMI CEC-compatible TVs only.

HDMI
HIGH-DEFINITION MULTIMEDIA INTERFACE

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).

Nikon technology.
The key to effortless shooting and satisfying results.

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, uncluttered 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.
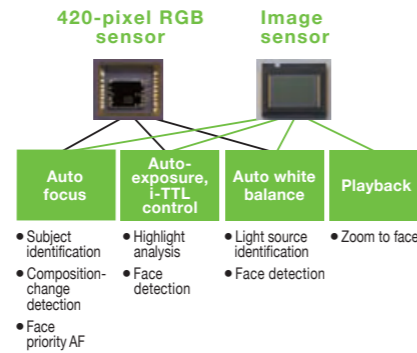
* When autofocus is set to AF-A or AF-C.
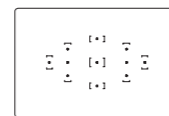
11 AF points

Note: The 11 AF points shown here are for illustration purposes only. Actual appearance differs.

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.

420-pixel RGB sensor

Image sensor

Auto focus
- Subject identification
- Composition-change detection
- Face priority AF

Auto-exposure, i-TTL control
- Highlight analysis
- Face detection

Auto white balance
- Light source identification
- Face detection

Playback
- Zoom to face

Beautiful balancing of light and shade

●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 combats this by preserving important details in shadows and highlights. The results are optimally exposed photos that better reflect the scene as you saw it.

Without Active D-Lighting

With Active D-Lighting

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.

Portrait

Natural, lovely skin tones

Vivid

Increased color saturation

Monochrome

Black and white images, including tints

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.

Miniature effect　　Original

Makes pictures appear as if they are photos of miniature scale models; especially effective when shooting landscapes from above.

Soft filter

Produces images similar to ones shot with a soft filter.

Color outline

Converts a photo into an outline image, which can be printed then hand-colored.

Perspective control　　Original

Corrects the perspective of shapes (like buildings) for a more natural look.

Other items in the Retouch Menu

● D-Lighting ● Red-eye correction ● Trim (3:2, 4:3, 5:4, 1:1, 16:9) ● Monochrome (Black-and-white, Sepia, and Cyanotype) ● Filter effects (Skylight, Warm filter, Red intensifier, Green intensifier, Blue intensifier and Cross screen) ● Color balance ● Small picture ● Image overlay ● NEF (RAW) processing ● Quick retouch ● Straighten ● Distortion control ● Fisheye ● Edit movie

Anytime, anywhere.
The right features for comfortable shooting and playback.

Easy operation and take-anywhere portability

●Compact and lightweight

At only approx. 1 lb. 1.8 oz.*, the compact and lightweight D3100 goes where 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.

Weight
Approx.
**1lb.
1.8oz.**

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

Convenient and powerful Speedlight SB-400 (sold separately)

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.

Vent for Airflow Control System
Image sensor cleaning mechanism
Image sensor
Low-pass filter
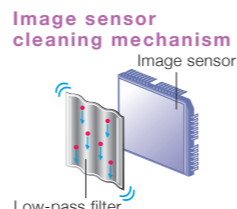
View photos with striking special effects

●Image playback with transitions NEW

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.

Slideshow with Cube effect

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

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

More ways to see the wonders of the world

NIKKOR

●High-performance NIKKOR lenses

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

55 mm

200 mm   300 mm

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

35 mm prime lens — For softly defocused backgrounds
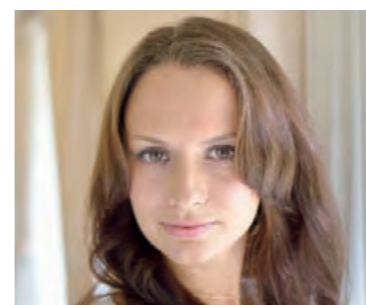
AF-S DX NIKKOR 35mm f/1.8G

85mm micro lens — Easy hand-held macro photography

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

Less camera-shake blur in images and viewfinder

VR

●Nikon's original VR system

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.
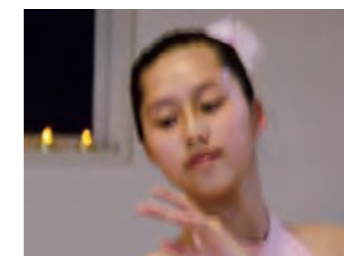
Without in-lens camera-shake correction   With Nikon's in-lens VR system

* VR allows shooting handheld up to three stops slower (four stops slower with VR II) than when using 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) files as well as JPEG and TIFF images. With award-winning U Point® technology, tedious editing procedures are easier than ever.

http://www.capturenx.com

Original

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!
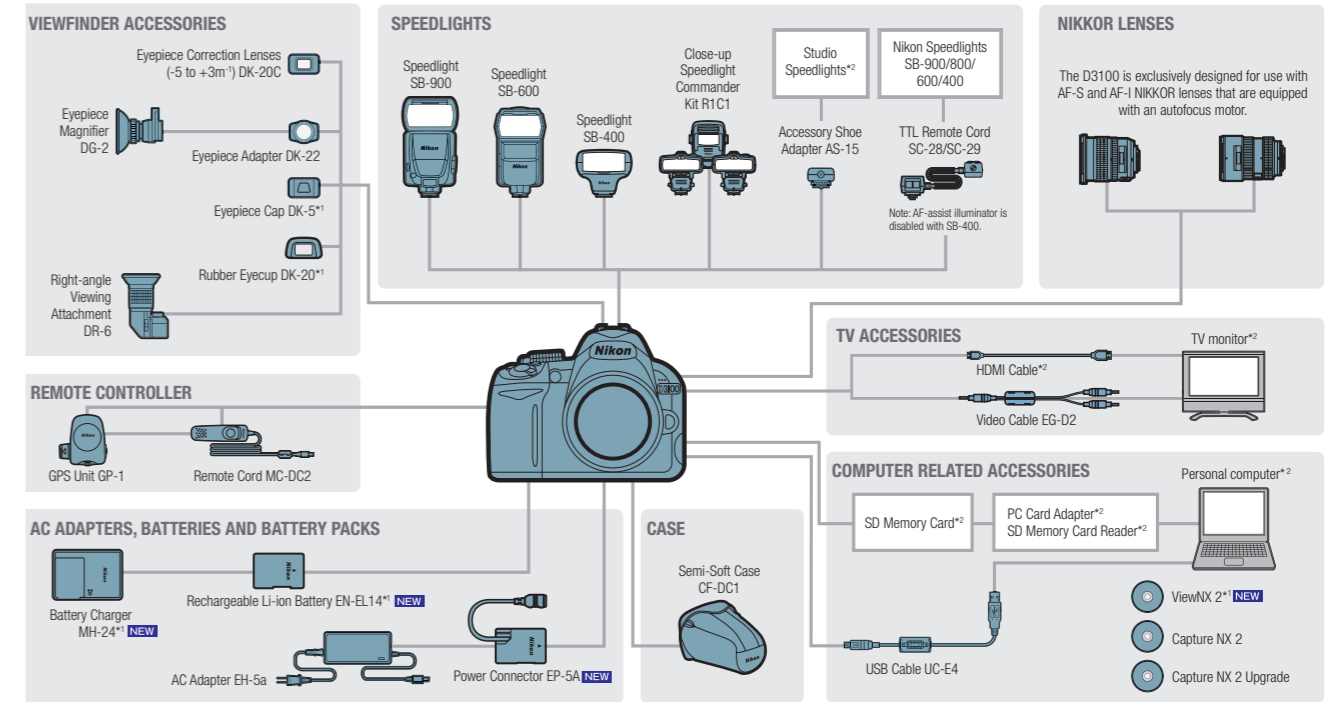
* Availability and fee may vary depending on country.

my **Picture**town
http://mypicturetown.com

Note: Website design may change without prior notice.

System Chart

VIEWFINDER ACCESSORIES

Eyepiece Correction Lenses (-5 to +3m⁻¹) DK-20C
Eyepiece Magnifier DG-2
Eyepiece Adapter DK-22
Eyepiece Cap DK-5*¹
Right-angle Viewing Attachment DR-6
Rubber Eyecup DK-20*¹

SPEEDLIGHTS

Speedlight SB-900
Speedlight SB-600
Speedlight SB-400
Close-up Speedlight Commander Kit R1C1
Studio Speedlights*²
Nikon Speedlights SB-900/800/600/400
Accessory Shoe Adapter AS-15
TTL Remote Cord SC-28/SC-29
Note: AF-assist illuminator is disabled with SB-400.

NIKKOR LENSES

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

REMOTE CONTROLLER

GPS Unit GP-1
Remote Cord MC-DC2

TV ACCESSORIES

HDMI Cable*²
TV monitor*²
Video Cable EG-D2

AC ADAPTERS, BATTERIES AND BATTERY PACKS

Battery Charger MH-24*¹ NEW
Rechargeable Li-ion Battery EN-EL14*¹ NEW
AC Adapter EH-5a
Power Connector EP-5A NEW

CASE

Semi-Soft Case CF-DC1

COMPUTER RELATED ACCESSORIES

SD Memory Card*²
PC Card Adapter*²
SD Memory Card Reader*²
Personal computer*²
USB Cable UC-E4
ViewNX 2*¹ NEW
Capture NX 2
Capture NX 2 Upgrade

*1: Supplied accessories *2: Non-Nikon products

Parts and Controls

1. Mode dial
2. Release-mode selector
3. Information button
4. Exposure compensation button/Aperture button/Flash compensation button
5. Shutter-release button
6. Power switch
7. AF-assist illuminator/Self-timer lamp/Red-eye reduction lamp
8. Accessory shoe (for optional flash units)
9. Flash mode button/Flash compensation button
10. Microphone
11. Function button
12. Lens release button
13. Playback button
14. Menu button
15. Thumbnail button/Playback zoom out button/Help button
16. Playback zoom in button
17. Information edit button
18. Viewfinder eyepiece
19. Diopter adjustment control
20. AE-L/AF-L button/Protect button
21. Command dial
22. Live View switch
23. Movie-record button
24. Multi selector
25. OK button
26. Delete button
27. Speaker
28. Monitor

Memory card capacity*¹

The following table shows the approximate number of pictures that can be stored on a 4 GB SanDisk Extreme SDHC card at different image quality and size settings.

Image quality	Image size	File size*¹	No. of images*¹	Buffer capacity*²
NEF (RAW) + JPEG fine*³	L	19.8 MB	151	9
	S			
NEF (RAW)	–	12.9 MB	226	13
JPEG fine	L	6.8 MB	460	100
	M	3.9 MB	815	100
	S	1.8 MB	1700	100
JPEG normal	L	3.4 MB	914	100
	M	2.0 MB	1500	100
	S	0.9 MB	3300	100
JPEG basic	L	1.7 MB	1700	100
	M	1.0 MB	3000	100
	S	0.5 MB	6000	100

*1 All figures are approximate. File size varies with scene recorded.
*2 Maximum number of exposures that can be stored in memory buffer at ISO 100. Drops when noise reduction is on.
*3 Image size applies to JPEG images only. Size of NEF (RAW) images can not be changed. File size is the total for NEF (RAW) and JPEG images.

Approved memory cards

The following SD 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 end unexpectedly when cards with slower write speeds are used.

	SD memory cards	SDHC memory cards*²	SDXC memory cards*³
SanDisk	512 MB, 1 GB, 2 GB*¹	4 GB, 8 GB, 16 GB	64 GB
Toshiba	512 MB, 1 GB, 2 GB*¹	4 GB, 8 GB, 16 GB, 32 GB	64 GB
Panasonic	512 MB, 1 GB, 2 GB*¹	4 GB, 6 GB, 8 GB, 12 GB, 16 GB, 32 GB	48 GB, 64 GB
LEXAR MEDIA	512 MB, 1 GB, 2 GB*¹	4 GB, 8 GB	-
Platinum II	512 MB, 1 GB, 2 GB*¹	4 GB, 8 GB	-
Professional	512 MB, 1 GB, 2 GB*¹	4 GB, 8 GB, 16 GB, 32 GB	-

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

Notes:
● Please check with the SD card manufacturer regarding features, specifications, warranty, and other items. Nikon cannot assure compatibility with SD cards not listed above.
● Limited to cards tested at the time of brochure printing. Additional cards may be fully compatible. Contact Nikon Customer Service for additional information.

Long-lasting lithium-ion battery

Included Rechargeable Li-ion Battery EN-EL14 delivers up to approximately 550 frames on a single charge*.

* Based on CIPA standards.

Nikon Digital SLR Camera D3100 Specifications

Type

Type	Single-lens reflex digital camera
Lens mount	Nikon F mount (with AF contacts)
Effective angle of view	Approx. 1.5 x lens focal length (Nikon DX format)

Effective pixels

Effective pixels	14.2 million

Image sensor

Image sensor	23.1 x 15.4 mm CMOS sensor
Total pixels	14.8 million
Dust-reduction system	Image sensor cleaning, Airflow Control System, Image Dust Off reference data (optional Capture NX 2 software required)

Storage

Image size (pixels)	• 4,608 x 3,072 [L] • 3,456 x 2,304 [M] • 2,304 x 1,536 [S]
File format	• NEF (RAW) • JPEG: JPEG-Baseline compliant with fine (approx. 1:4), normal (approx. 1:8), or basic (approx. 1:16) compression • NEF (RAW) + JPEG: Single photograph recorded in both NEF (RAW) and JPEG formats
Picture Control System	Standard, Neutral, Vivid, Monochrome, Portrait, Landscape; selected Picture Control can be modified
Media	SD (Secure Digital), SDHC and SDXC memory cards
File system	DCF (Design Rule for Camera File System) 2.0, DPOF (Digital Print Order Format), Exif 2.21 (Exchangeable Image File Format for Digital Still Cameras), PictBridge

Viewfinder

Viewfinder	Eye-level pentamirror single-lens reflex viewfinder
Frame coverage	Approx. 95% horizontal and 95% vertical
Magnification	Approx. 0.8 x (50 mm f/1.4 lens at infinity, -1.0 m^{-1})
Eyepoint	18 mm (-1.0 m^{-1})
Diopter adjustment	-1.7 to +0.5 m^{-1}
Focusing screen	Type B BriteView Clear Matte Mark VII screen
Reflex mirror	Quick return
Lens aperture	Instant return, electronically controlled

Lens

Compatible lenses	• AF-S and AF-I: All functions supported. • Type G or D AF NIKKOR without built-in autofocus motor: All functions except autofocus supported. IX NIKKOR lenses not supported. • Other AF NIKKOR: All functions supported except autofocus and 3D color matrix metering II. Lenses for F3AF not supported. • Type D PC NIKKOR: All functions supported except autofocus and some shooting modes. • AI-P NIKKOR: All functions supported except autofocus and 3D color matrix metering II. • Non-CPU: Autofocus not supported. Can be used in exposure mode M, but exposure meter does not function. Note: Electronic rangefinder can be used if lens has a maximum aperture of f/5.6 or faster.

Shutter

Type	Electronically controlled vertical-travel focal-plane shutter
Speed	1/4000 to 30 s in steps of 1/3 EV, Bulb
Flash sync speed	X=1/200 s; synchronizes with shutter at 1/200 s or slower

Release

Release mode	⬛ (single frame), ▢ (continuous), ⏱ (self-timer), ⬛ (quiet shutter release)
Frame advance rate	Up to 3 fps (manual focus, mode M or S, shutter speed 1/250 s or faster, and other settings at default values)
Self-timer	2 s, 10 s

Exposure

Metering	TTL exposure metering using 420-pixel RGB sensor
Metering method	• Matrix: 3D color matrix metering II (type G and D lenses); color matrix metering II (other CPU lenses) • Center-weighted: Weight of 75% given to 8-mm circle in center of frame • Spot: Meters 3.5-mm circle (about 2.5% of frame) centered on selected focus point
Range (ISO 100, f/1.4 lens, 68°F/20°C)	• Matrix or center-weighted metering: 0 to 20 EV • Spot metering: 2 to 20 EV
Exposure meter coupling	CPU
Exposure modes	Auto modes (auto, auto [flash off]); scene modes (portrait; landscape; child; sports; close up; night portrait); programmed auto with flexible program (P); shutter-priority auto (S); aperture-priority auto (A); manual (M)
Exposure compensation	-5 to +5 EV in increments of 1/3 EV
Exposure lock	Luminosity locked at detected value with AE-L/AF-L button
ISO sensitivity (Recommended Exposure Index)	ISO 100 to 3200 in steps of 1 EV; can also be set to approx. 1 EV above ISO 3200 (ISO 6400 equivalent) or to approx. 2 EV above ISO 3200 (ISO 12800 equivalent); auto ISO sensitivity control available
Active D-Lighting	On, Off

Focus

Autofocus	Nikon Multi-CAM 1000 autofocus sensor module with TTL phase detection, 11 focus points (including one cross-type sensor), and AF-assist illuminator (range approx. 1 ft. 8 in. to 9 ft. 10 in.)
Detection range	-1 to +19 EV (ISO 100, 68°F/20°C)
Lens servo	• Autofocus (AF): Single-servo AF (AF-S); continuous-servo AF (AF-C); auto AF-S/AF-C selection (AF-A); predictive focus tracking activated automatically according to subject status • Manual focus (MF): Electronic rangefinder can be used
Focus point	Can be selected from 11 focus points
AF-area mode	Single-point AF, dynamic-area AF, auto-area AF, 3D-tracking (11 points)
Focus lock	Focus can be locked by pressing shutter-release button halfway (single-servo AF) or by pressing AE-L/AF-L button

Flash

Built-in flash	Auto, Portrait, Child, Close up, Night portrait: Auto flash with auto pop-up P, S, A, M: Manual pop-up with button release
Guide number	Approx. 39/12, 43/13 with manual flash (ft/m, ISO 100, 68°F/20°)
Flash control	• TTL: i-TTL balanced fill-flash and standard i-TTL flash for digital SLR using 420-pixel RGB sensor are available with built-in flash and SB-900, SB-800, SB-600, or SB-400 (i-TTL balanced fill-flash is available when matrix or center-weighted metering is selected) • Auto aperture: Available with SB-900/SB-800 and CPU lens • Non-TTL auto: Supported flash units include SB-900, SB-800, SB-80DX, SB-28DX, SB-28, SB-27, and SB-22S • Distance-priority manual: Available with SB-900 and SB-800
Flash mode	Auto, auto with red-eye reduction, fill-flash, auto slow sync, auto slow sync with red-eye correction, and rear curtain with slow sync
Flash compensation	-3 to +1 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, SB-400, SB-80DX, SB-28DX, or SB-50DX is fully charged; blinks for 3 s after flash is fired at full output
Accessory shoe	ISO 518 hot-shoe with sync and data contacts and safety lock
Nikon Creative Lighting System (CLS)	Advanced Wireless Lighting supported with SB-900, SB-800, or SU-800 as commander; Flash Color Information Communication supported with built-in flash and all CLS-compatible flash units
Sync terminal	Sync Terminal Adapter AS-15 (available separately)

White balance

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

Live View

Lens servo	• Autofocus (AF): Single-servo AF (AF-S); full-time-servo AF (AF-F) • Manual focus (MF)
AF-area mode	Face-priority AF, wide-area AF, normal-area AF, subject-tracking AF
Autofocus	Contrast-detect AF anywhere in frame (camera selects focus point automatically when face-priority AF or subject-tracking AF is selected)
Scene Auto Selector	Available in auto and auto (flash off) modes

Movie

Metering	TTL exposure metering using main image sensor
Metering method	Matrix
Frame size (pixels) and frame rate	• 1,920 x 1,080 (24p): 24 fps (23.976 fps) • 1,280 x 720 (30p): 30 fps (29.97 fps) • 1,280 x 720 (25p): 25 fps • 1,280 x 720 (24p): 24 fps (23.976 fps) • 640 x 424 (24p): 24 fps (23.976 fps)
Maximum recording time	10 min.
File format	MOV
Video compression	H.264/MPEG-4 Advanced Video Coding
Audio recording format	Linear PCM
Audio recording device	Built-in monaural microphone

Monitor

LCD monitor	3-in., approx. 230 k-dot TFT LCD with brightness adjustment

Playback

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)

Interface

USB	Hi-Speed USB
Video output	NTSC, PAL
HDMI output	Type C mini-pin HDMI connector
Accessory terminal	• Remote cord: MC-DC2 (available separately) • GPS unit: GP-1 (available separately)

Supported languages

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

Power source

Battery	One Rechargeable Li-ion Battery EN-EL14
AC adapter	AC Adapter EH-5a; requires Power Connector EP-5A (available separately)

Tripod socket

Tripod socket	1/4 in. (ISO 1222)

Dimensions/weight

Dimensions (W x H x D)	Approx. 4.9 x 3.8 x 2.9 in.
Weight	Approx. 1 lb. (camera body only); Approx. 1 lb. 8 oz. with battery and memory card but without body cap

Operating environment

Temperature	32 to 104°F (0 to 40°C)
Humidity	Less than 85% (no condensation)

Accessories

Supplied accessories (may differ by country or area)	Rechargeable Li-ion Battery EN-EL14, Battery Charger MH-24, Eyepiece Cap DK-5, Rubber Eyecap DK-20, Camera Strap AN-DC3, Accessory Shoe Cover BS-1, Body Cap BF-1B, ViewNX 2 CD-ROM, Ferrite Core (2 types)

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