# Nikon

DIGITAL CAMERA

# 5600



# User's Manual

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- · Read this manual thoroughly before using the camera.
- · To ensure proper use of the camera, be sure to read
- "For Your Safety" (□ 27).

   After reading this manual, keep it in a readily accessible place for future reference.

#### D5600 Model Name: N1538

#### **About the Reference Manual**

For more information on using your Nikon camera, download a pdf copy of the camera *Reference Manual* from the website listed below. http://downloadcenter.nikonimalib.com/

#### **Nikon User Support**

Contact a Nikon representative for technical assistance with the operation of your Nikon product or products. For information on the Nikon representatives in your area, visit http://www.nikon-asia.com/support.



#### Nikon Manual Viewer 2

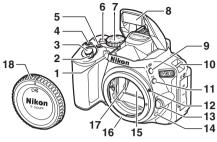
Install the Nikon Manual Viewer 2 app on your smartphone or tablet to view Nikon digital camera manuals, anytime, anywhere. Nikon Manual Viewer 2 can be downloaded free of charge from the App Store and Google Play.

### **Package Contents**

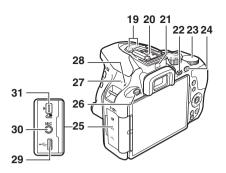
| D5600 camera                     | ■ AN-DC3 strap                        |
|----------------------------------|---------------------------------------|
| DK-25 rubber eyecup              | ☐ <i>User's Manual</i> (this booklet) |
| BF-1B body cap                   | ■ Warranty                            |
| EN-EL14a rechargeable Li-ion     |                                       |
| battery (with terminal cover)    |                                       |
| MH-24 battery charger (plug ada) | oter supplied in countries or regions |
| where required; shape depends of | n country of sale)                    |

Purchasers of the lens kit option should confirm that the package also includes a lens. *Memory cards are sold separately*. Cameras purchased in Japan display menus and messages in English and Japanese only; other languages are not supported. We apologize for any inconvenience this may cause.

# **The Camera Body**

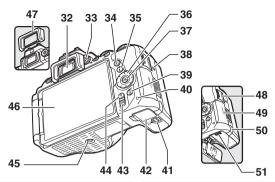


- 1 AF-assist illuminator
  Self-timer lamp
  Red-eye reduction lamp
  2 Power switch
  3 Shutter-release button
  4 望/֎ button
  5 Movie-record button
  6 Live view switch
  7 Mode dial
  8 Built-in flash



- 19 Stereo microphone20 Accessory shoe (for optional flash units)
- 21 Eye sensor
- 22 M (information) button
- 23 Command dial
- 24 ﷺ button
- 25 Connector cover

- 26 MENU button
- 27 Speaker
- 28 Focal plane mark (↔)
- 29 USB connector
- 30 Connector for external microphone
- 31 Accessory terminal



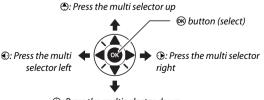
| ece |
|-----|
| E   |

- 33 Diopter adjustment control
- 34 ▶ button
- 35 i button
- 36 Multi selector
- 37 ( OK) button
- 38 N-Mark (NFC antenna)
- 39 m button
- 40 Memory card access lamp
- 41 Battery-chamber cover latch
- 42 Battery-chamber cover

- 43 Q⊠/? button
- 44 ♥ button
- 45 Tripod socket
- **46** Touch-sensitive vari-angle monitor
- 47 Rubber eyecup
- 48 HDMI connector cover
- 49 Memory card slot cover
- **50** Power connector cover for optional power connector
- 51 Battery latch

#### ☑ The Multi Selector

In this manual, operations using the multi selector are represented by -, -, -, and - icons.



: Press the multi selector down

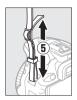
# **Quick Start Guide**

## **Attach the Camera Strap**







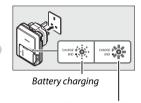


# **Charge the Battery**

If a plug adapter is supplied, raise the wall plug and connect the plug adapter as shown below at left, making sure the plug is fully inserted. Insert the battery and plug the charger in.







Charging complete

# **Insert the Battery and a Memory Card**





# **Open the Monitor**

Open the monitor as shown. Do not use force.

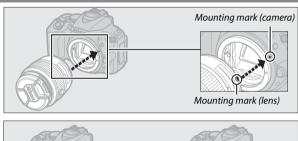


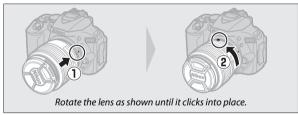






# Attach a Lens





#### Lenses with Retractable Lens Barrel Buttons

Before using the camera, unlock and extend the lens. Keeping the retractable lens barrel button pressed  $(\widehat{\mathbb{Q}})$ , rotate the zoom ring as shown  $(\widehat{\mathbb{Q}})$ .





Retractable lens barrel button

Pictures can not be taken when the lens is retracted; if an error message is displayed as a result of the camera having been turned on with the lens retracted, rotate the zoom ring until the message is no longer displayed.



#### Removing Lenses

To remove the lens, turn the camera off and press and hold the lens-release button on the front of the camera while rotating the lens in the direction opposite that shown above.

# Camera Setup

#### ■■ Setup from a Smartphone or Tablet

- Download and install the SnapBridge app. The app is available free from the Nikon website (http://snapbridge.nikon.com), the Apple App Store®, and Google Play™.
- 2 Turn the camera on. A language-selection dialog will be displayed; press ⊕ and ⊕ to highlight a language and press ⊛ to select.



Press 
when the dialog at right is displayed.



- Pair the camera and the smart device.
  - Android devices with NFC support: After checking that NFC is enabled on the smart device, touch the camera (N-Mark) to the NFC antenna on the smart device to launch the SnapBridge app.
  - iOS devices and Android devices without NFC support: Press the camera
     button. The camera will wait for a connection; launch the SnapBridge app on the smart device and follow the on-screen instructions to tap the name of the camera you want to pair with.
- Check the authentication code. Press 
  on the camera and tap PAIR on the smart device (the button may vary with the smart device).

6 Press ® when the dialog at right is displayed.

If the camera displays **Unable to connect.**, the display will change after a short pause. Return to Step 4.



7 Follow the on-screen instructions.
Follow the instructions displayed by the camera and smart device to complete the setup process.

#### ■■ Setup from the Camera Menus

- Turn the camera on.
  A language-selection dialog will be displayed; press ♠ and ♠ to highlight a language and press ♠ to select.
- Press MENU and set the camera clock. After setting time zone, date format, and daylight saving time options, use the multi selector and ® button to set the camera clock.



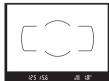
#### **Focus the Viewfinder**

After removing the lens cap, rotate the diopter adjustment control until the AF area brackets are in sharp focus. When operating the control with your eye to the viewfinder, be careful not to put your fingers or fingernails in your eye.









Viewfinder in focus

# "Point-and-Shoot" Modes (♣ and ⑤)

1 Rotate the mode dial to or ③.



Frame the photograph.



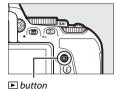
Press the shutter-release button halfway to focus.



4 Smoothly press the shutter-release button the rest of the way down to take the photograph.

# **Viewing Photographs**

Pressing displays a picture in the monitor.



# Deleting Unwanted Photographs

Note that photographs can not be recovered once deleted.

 Press the m button. A confirmation dialog will be displayed; press the m button again to delete the image and return to playback.

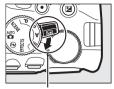


i button

 To exit without deleting the picture, press .

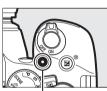
# **Recording Movies**

1 Rotate the live view switch. The view through the lens will be displayed in the monitor.



Live view switch

- Press the shutter-release button halfway to focus.
- Press the movie-record button to start recording.



Movie-record button

A recording indicator and the time available are displayed in the monitor.



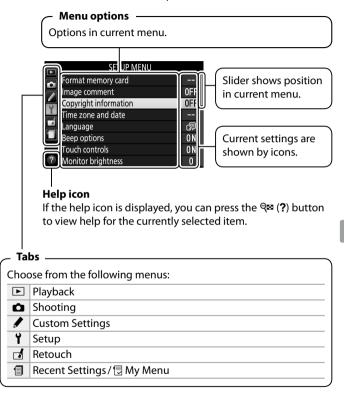


Recording indicator

- Press the movie-record button again to end recording.
- 5 Rotate the live view switch to exit live view.

#### **Camera Menus**

Most shooting, playback, and setup options can be accessed from the camera menus. To view the menus, press the MENU button.



# **Caring for the Camera**

#### **Storage**

When the camera will not be used for an extended period, turn the camera off and remove the battery. Do not store in locations that:

- are poorly ventilated or subject to humidities of over 60%
- are next to equipment that produces strong electromagnetic fields, such as televisions or radios
- are exposed to temperatures above 50 °C (122 °F) or below –10 °C (14 °F)

#### ■■ Cleaning Camera Body

Use a blower to remove dust and lint, then wipe gently with a soft, dry cloth. After using the camera at the beach or seaside, wipe off sand or salt with a cloth lightly dampened in distilled water and dry thoroughly.

Important: Dust or other foreign matter inside the camera may cause damage not covered under warranty.

#### Lens, Mirror, and Viewfinder

These glass elements are easily damaged. Remove dust and lint with a blower. If using an aerosol blower, keep the can vertical to prevent the discharge of liquid. To remove fingerprints and other stains, apply a small amount of lens cleaner to a soft cloth and clean with care.

#### Monitor

Remove dust and lint with a blower. When removing fingerprints and other stains, wipe the surface lightly with a soft cloth or chamois leather. Do not apply pressure, as this could

result in damage or malfunction.

\* Do not use alcohol, thinner, or other volatile chemicals.

# **Troubleshooting**

#### **■■** Battery/Display

The camera is on but does not respond: Wait for recording to end. If the problem persists, turn the camera off. If the camera does not turn off, remove and reinsert the battery or, if you are using an AC adapter, disconnect and reconnect the AC adapter. Note that although any data currently being recorded will be lost, data that have already been recorded will not be affected by removing or disconnecting the power source.

**Viewfinder is dark**: Insert a fully-charged battery.

**Displays turn off without warning:** Choose longer delays for Custom Setting c2 (**Auto off timers**).

**Viewfinder display is unresponsive and dim:** The response times and brightness of this display vary with temperature.

Fine lines are visible around active focus point or display turns red when focus point is highlighted: These phenomena are normal for this type of viewfinder and do not indicate a malfunction.

#### **■ Shooting (All Modes)**

**Camera takes time to turn on**: Delete files or folders.

# Specifications

# ■ Nikon D5600 Digital Camera

| Туре                    |   |
|-------------------------|---|
| Туре                    | Single-lens reflex digital camera   |
| Lens mount              | Nikon F mount (with AF contacts)  |
| Effective angle of view | Nikon DX format; focal length equivalent to approx. 1.5× that of lenses with FX format angle of view  |
| Effective pixels        |   |
| Effective pixels        | 24.2 million  |
| Image sensor            |   |
| Image sensor            | $23.5 \times 15.6 \text{ mm CMOS sensor}$   |
| Total pixels            | 24.78 million   |
| Dust-reduction System   | Image sensor cleaning, Image Dust Off reference data<br>(Capture NX-D software required)  |
| Storage                 |   |
| Image size (pixels)     | • 6000 × 4000 (Large)<br>• 4496 × 3000 (Medium)<br>• 2992 × 2000 (Small)  |
| File format             | NEF (RAW): 12- or 14 bit, compressed  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,<br>Landscape, Flat; selected Picture Control can be<br>modified; storage for custom Picture Controls  |
| Media                   | SD (Secure Digital) and UHS-I compliant SDHC and SDXC memory cards  |
| File system             | DCF 2.0, Exif 2.3, PictBridge   |

| Viewfinder         |  |  |
|--------------------|--|--|
| Viewfinder         | Eye-level pentamirror single-lens reflex viewfinder  |  |
| Frame coverage     | Approx. 95% horizontal and 95% vertical  |  |
| Magnification      | Approx. $0.82 \times (50 \text{ mm f/1.4 lens at infinity, } -1.0 \text{ m}^{-1})$   |  |
| Eyepoint           | 17 mm (–1.0 m <sup>-1</sup> ; from center surface of viewfinder eyepiece lens)   |  |
| Diopter adjustment | -1.7-+0.5 m <sup>-1</sup>  |  |
| Focusing screen    | Type B BriteView Clear Matte Mark VII screen   |  |
| Reflex mirror      | Quick return   |  |
| Lens aperture      | Instant return, electronically controlled  |  |
| Lens               |  |  |
| Autofocus support  | Autofocus is available with AF-S, AF-P, and AF-I lenses.   |  |
| Shutter            |  |  |
| Туре               | Electronically-controlled vertical-travel focal-plane shutter  |  |
| Speed              | 1/4000 – 30 s in steps of 1/3 or 1/2 EV; Bulb; Time  |  |
| Flash sync speed   | $X = \frac{1}{200}$ s; synchronizes with shutter at $\frac{1}{200}$ s or slower  |  |
| Release            |  |  |
| Release mode       | ⑤ (single frame), 웹L (continuous L), 웹H (continuous H),<br>⑥ (quiet shutter release), ⑥ (self-timer); interval timer<br>photography supported  |  |
| Frame advance rate | • ■L: Up to 3 fps • ■H: Up to 5 fps (JPEG and 12-bit NEF/RAW) or 4 fps (14-bit NEF/RAW)  Note: Frame rates assume continuous-servo AF, manual or shutter-priority auto exposure, a shutter speed of 1/250 s or faster, Release selected for Custom Setting a1 (AF-C priority selection), and other settings at default values. |  |
| Self-timer         | 2 s, 5 s, 10 s, 20 s; 1–9 exposures  |  |

| -  |  |
|--|--|
| Exposure   |  |
| Metering mode                                      | TTL exposure metering using 2016-pixel RGB sensor  |
| Metering method                                    | Matrix metering: 3D color matrix metering II (type G, E, and D lenses); color matrix metering II (other CPU lenses)  Center-weighted metering: Weight of 75% given to 8-mm circle in center of frame  Spot metering: Meters 3.5-mm circle (about 2.5% of frame) centered on selected focus point   |
| Range (ISO 100, f/1.4<br>lens, 20 °C/68 °F)        | <ul> <li>Matrix or center-weighted metering: 0–20 EV</li> <li>Spot metering: 2–20 EV</li> </ul>  |
| Exposure meter coupling                            | CPU  |
| Mode   | Auto modes (🖀 auto; ③ auto, flash off); programmed auto with flexible program (P); shutter-priority auto (S); aperture-priority auto (A); manual (M); scene modes (② portrait; 🖆 landscape; ﴿ child; ﴿ sports; ﴿ close up; ④ night portrait; 🖺 night landscape; ﴿ party/ indoor; (A) beach/snow; (A) supervivid; (A) pop; (A) photo illustration; (A) toy camera effect; (A) miniature effect; (A) selective color; (A) silhouette; (B) high key; (B) low key) |
| Exposure compensation                              | Can be adjusted by $-5-+5$ EV in increments of $1/3$ or $1/2$ EV in P, S, A, M, SCENE, and $1/2$ modes   |
| Exposure lock                                      | Luminosity locked at detected value with 紅 (ㅇ¬¬) button  |
| ISO sensitivity<br>(Recommended<br>Exposure Index) | ISO 100–25600 in steps of 1/3 EV. Auto ISO sensitivity control available   |
| Active D-Lighting                                  | 暗A Auto, 暗H Extra high, 暗H High, 暗N Normal, 暗L Low,<br>0FF Off   |

| Focus              |  |
|--------------------|--|
| Autofocus          | Nikon Multi-CAM 4800DX autofocus sensor module with TTL phase detection, 39 focus points (including 9 cross-type sensors), and AF-assist illuminator (range approx. 0.5–3 m/1 ft 8 in.–9 ft 10 in.)  |
| Detection range    | -1-+19 EV (ISO 100, 20 °C/68 °F)   |
| 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 39 or 11 focus points   |
| AF-area mode       | Single-point AF, 9-, 21-, or 39- point dynamic-area AF, 3D-tracking, auto-area AF  |
| Focus lock         | Focus can be locked by pressing shutter-release button halfway (single-servo AF) or by pressing 紅 (•¬¬) button   |
| Flash              |  |
| Built-in flash     | 常, 乏, 毫, ♥, 国, ※, ∀, VI, PIP, ₽, 息: Auto flash with auto pop-up<br>P, S, A, M, †!: Manual pop-up with button release   |
| Guide Number       | Approx. 12/39, 12/39 with manual flash (m/ft, ISO 100, 20 °C/68 °F)  |
| Flash control      | TTL: i-TTL flash control using 2016-pixel RGB sensor is<br>available with built-in flash; i-TTL balanced fill-flash for<br>digital SLR is used with matrix and center-weighted<br>metering, standard i-TTL flash for digital SLR with spot<br>metering |
| Flash mode         | Auto, auto with red-eye reduction, auto slow sync, auto slow sync with red-eye reduction, fill-flash, red-eye reduction, slow sync, slow sync with red-eye reduction, rear-curtain with slow sync, rear-curtain sync, off                              |
| Flash compensation | Can be adjusted by $-3-+1$ EV in increments of $1/3$ or $1/2$ EV in P, S, A, M, and SCENE modes  |

| when built-in flash or optional flash unit is fully<br>d; blinks after flash is fired at full output<br>hot-shoe with sync and data contacts and safety<br>iLS supported<br>ync terminal adapter (available separately) |
|---|
| d; blinks after flash is fired at full output hot-shoe with sync and data contacts and safety   |
| LS supported  |
|   |
| ync terminal adapter (available separately)   |
|   |
|   |
| candescent, fluorescent (7 types), direct sunlight,<br>oudy, shade, preset manual, all except preset<br>with fine-tuning.   |
|   |
| re, white balance, and ADL  |
|   |
| cus (AF): Single-servo AF (AF-S); full-time-servo AF  |
| iority AF, wide-area AF, normal-area AF, subject-<br>g AF   |
| t-detect AF anywhere in frame (camera selects<br>oint automatically when face-priority AF or<br>-tracking AF is selected)   |
| le in 🛱 and 🖫 modes   |
|   |
| osure metering using main image sensor  |
|   |
| < 1080; 60p (progressive), 50p, 30p, 25p, 24p < 720; 60p, 50p   |
|   |

| Movie                  |   |
|------------------------|---|
| File format            | MOV   |
| Video compression      | H.264/MPEG-4 Advanced Video Coding  |
| Audio recording format | Linear PCM  |
| Audio recording device | Built-in or external stereo microphone; sensitivity adjustable  |
| ISO sensitivity        | ISO 100-25600   |
| Other options          | Time-lapse movies   |
| Monitor                |   |
| Monitor                | 8.1 cm/3.2-in. (3 : 2), approx. 1037k-dot (720 $\times$ 480 $\times$ 3 = 1,036,800 dots), TFT vari-angle LCD touch screen with 170° viewing angle, approx. 100% frame coverage, brightness adjustment, and eye-sensor controlled on/off   |
| Playback               |   |
| Playback               | Full-frame and thumbnail (4, 12, or 80 images or calendar) playback with playback zoom, playback zoom cropping, playback face zoom, movie playback, photo and/or movie slide shows, histogram display, highlights, photo information, location data display, auto image rotation, picture rating, and image comment (up to 36 characters) |
| Interface              |   |
| USB                    | Hi-Speed USB with Micro-USB connector; connection to built-in USB port is recommended   |
| HDMI output            | Type C HDMI connector   |
| Accessory terminal     | Wireless remote controllers: WR-1, WR-R10 (available separately) Remote cords: MC-DC2 (available separately) GPS units: GP-1/GP-1A (available separately)   |
| Audio input            | Stereo mini-pin jack (3.5 mm diameter); supports optional ME-1 stereo microphones   |

| Wireless/Bluetooth                   |  |
|--------------------------------------|--|
| Wireless                             | Standards: IEEE 802.11b, IEEE 802.11g     Operating frequency: 2412–2462 MHz (channels 1–11)     Authentication: Open system, WPA2-PSK   |
| Bluetooth                            | <b>Communication protocols</b> : Bluetooth Specification Version 4.1   |
| Range (line of sight)                | Approximately 10 m (32 ft) without interference; range may vary with signal strength and presence or absence of obstacles  |
| NFC                                  |  |
| Operation                            | NFC Forum Type 3 Tag   |
| Supported languages                  |  |
| Supported languages                  | Arabic, Bengali, Bulgarian, Chinese (Simplified and Traditional), Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hindi, Hungarian, Indonesian, Italian, Japanese, Korean, Marathi, Norwegian, Persian, Polish, Portuguese (Portugal and Brazil), Romanian, Russian, Serbian, Spanish, Swedish, Tamil, Telugu, Thai, Turkish, Ukrainian, Vietnamese |
| Power source                         |  |
| Battery                              | One EN-EL14a rechargeable Li-ion battery   |
| AC adapter                           | EH-5b/EH-5c AC adapter; requires EP-5A power connector (available separately)  |
| Tripod socket                        |  |
| Tripod socket                        | 1/4 in. (ISO 1222)   |
| Dimensions/weight                    |  |
| Dimensions (W $\times$ H $\times$ D) | Approx. $124 \times 97 \times 70 \text{ mm } (4.9 \times 3.9 \times 2.8 \text{ in.})$  |
| Weight                               | Approx. 465 g (1 lb 0.4 oz) with battery and memory card but without body cap; approx. 415 g/14.7 oz (camera body only)  |
| Operating environment                |  |
| Temperature                          | 0 °C-40 °C (+32 °F-104 °F)   |
| Humidity                             | 85% or less (no condensation)  |
|                                      |  |

#### ■■ MH-24 Battery Charger

| Rated input                          | AC 100-240 V, 50/60 Hz, 0.2 A maximum   |
|--------------------------------------|---|
| Rated output                         | DC 8.4 V/0.9 A  |
| Supported batteries                  | Nikon EN-EL14a rechargeable Li-ion batteries  |
| Charging time                        | Approx. 1 hour and 50 minutes at an ambient temperature of 25 °C (77 °F) when no charge remains |
| Operating temperature                | 0 °C-40 °C (+32 °F-104 °F)  |
| Dimensions (W $\times$ H $\times$ D) | Approx. $70 \times 26 \times 97$ mm (2.8 $\times$ 1.0 $\times$ 3.8 in.), excluding plug adapter |
| Weight                               | Approx. 96 g (3.4 oz), excluding plug adapter   |

The symbols on this product represent the following:

 $\sim$  AC, --- DC,  $\square$  Class II equipment (The construction of the product is double-insulated.)

#### **■■** EN-EL14a Rechargeable Li-ion Battery

| Туре                                 | Rechargeable lithium-ion battery   |
|--------------------------------------|--|
| Rated capacity                       | 7.2 V/1230 mAh   |
| Operating temperature                | 0°C-40 °C (+32 °F-104 °F)  |
| Dimensions (W $\times$ H $\times$ D) | Approx. $38 \times 53 \times 14 \text{ mm } (1.5 \times 2.1 \times 0.6 \text{ in.})$ |
| Weight                               | Approx. 49 g (1.7 oz), excluding terminal cover                                      |

#### Battery Life

The movie footage or number of shots that can be recorded with fully-charged batteries varies with the condition of the battery, temperature, the interval between shots, and the length of time menus are displayed. Sample figures for EN-EL14a (1230 mAh) batteries are given below.

- Photographs, single-frame release mode (CIPA standard): Approximately 970 shots
- Movies: Approximately 70 minutes at 1080/60p

#### ■■ AF-P DX NIKKOR 18-55mm f/3.5-5.6G VR

| Type G AF-P DX lens with built-in CPU and F mount   |
|---|
| 18–55 mm  |
| f/3.5-5.6   |
| 12 elements in 9 groups (2 aspherical lens elements)  |
| 76°-28° 50′   |
| Graduated in millimeters (18, 24, 35, 45, 55)   |
| Output to camera  |
| Manual zoom using independent zoom ring   |
| Autofocus controlled by stepping motor; separate focus ring for manual focus  |
| Lens shift using voice coil motors (VCMs)   |
| 0.25 m (0.9 ft) from focal plane at all zoom positions  |
| 7 (rounded diaphragm opening)   |
| Fully automatic   |
| • 18 mm focal length: f/3.5–22<br>• 55 mm focal length: f/5.6–38<br>The minimum aperture displayed may vary depending<br>on the size of the exposure increment selected with the<br>camera. |
| Full aperture   |
| 55 mm (P = 0.75 mm)   |
| Approx. 64.5 mm maximum diameter × 62.5 mm (distance from camera lens mount flange when lens is retracted)  |
| Approx. 205 g (7.3 oz)  |
|   |

# ■■ AF-P DX NIKKOR 70–300mm f/4.5–6.3G ED VR and AF-P DX NIKKOR 70–300mm f/4.5–6.3G ED

| Туре   | Type G AF-P DX lens with built-in CPU and F mount  |
|--|--|
| Focal length   | 70–300 mm  |
| Maximum aperture   | f/4.5-6.3  |
| Lens construction  | 14 elements in 10 groups (including 1 ED lens element)   |
| Angle of view  | 22° 50′ – 5° 20′   |
| Focal length scale   | Graduated in millimeters (70, 100, 135, 200, 300)  |
| Distance information   | Output to camera   |
| Zoom   | Manual zoom using independent zoom ring  |
| Focusing   | Autofocus controlled by stepping motor; separate focus ring for manual focus   |
| Vibration reduction<br>(AF-P DX NIKKOR<br>70–300mm f/4.5–6.3G<br>ED VR only) | Lens shift using voice coil motors (VCMs)  |
| Minimum focus distance   | 1.1 m (3.7 ft) from focal plane at all zoom positions  |
| Diaphragm blades   | 7 (rounded diaphragm opening)  |
| Diaphragm  | Fully automatic  |
| Aperture range   | • 70 mm focal length: f/4.5–22 • 300 mm focal length: f/6.3–32 The minimum aperture displayed may vary depending on the size of the exposure increment selected with the camera. |
| Metering   | Full aperture  |
| Filter-attachment size   | 58 mm (P = 0.75 mm)  |
| Dimensions   | Approx. 72 mm maximum diameter × 125 mm (distance from camera lens mount flange)   |
| Weight   | • AF-P DX NIKKOR 70–300mm f/4.5–6.3G ED VR: Approx. 415 g (14.7 oz) • AF-P DX NIKKOR 70–300mm f/4.5–6.3G ED: Approx. 400 g (14.2 oz)   |

#### ■■ AF-S DX NIKKOR 18-140mm f/3.5-5.6G ED VR

| Туре                   | Type G AF-S DX lens with built-in CPU and F mount  |
|------------------------|--|
| Focal length           | 18-140 mm  |
| Maximum aperture       | f/3.5-5.6  |
| Lens construction      | 17 elements in 12 groups (including 1 ED lens element, 1 aspherical lens element)  |
| Angle of view          | 76°-11° 30′  |
| Focal length scale     | Graduated in millimeters (18, 24, 35, 50, 70, 140)   |
| Distance information   | Output to camera   |
| Zoom                   | Manual zoom using independent zoom ring  |
| Focusing               | Nikon Internal Focusing (IF) System with autofocus controlled by Silent Wave Motor and separate focus ring for manual focus  |
| Vibration reduction    | Lens shift using voice coil motors (VCMs)  |
| Minimum focus distance | 0.45 m (1.48 ft) from focal plane at all zoom positions  |
| Diaphragm blades       | 7 (rounded diaphragm opening)  |
| Diaphragm              | Fully automatic  |
| Aperture range         | • 18 mm focal length: f/3.5–22 • 140 mm focal length: f/5.6–38 The minimum aperture displayed may vary depending on the size of the exposure increment selected with the camera. |
| Metering               | Full aperture  |
| Filter-attachment size | 67 mm (P = 0.75 mm)  |
| Dimensions             | Approx. 78 mm maximum diameter × 97 mm (distance from camera lens mount flange)  |
| Weight                 | Approx. 490 g (17.3 oz)  |

- Unless otherwise stated, all measurements are performed in conformity with Camera and Imaging Products Association (CIPA) standards or quidelines.
- All figures are for a camera with a fully-charged battery.
- Nikon reserves the right to change the appearance and specifications of the hardware and software described in this manual at any time and without prior notice. Nikon will not be held liable for damages that may result from any mistakes that this manual may contain.

#### **■■** Trademark Information

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your Nikon product are trademarks or registered trademarks of their respective holders.

"Made for iPod," "Made for iPhone," and "Made for iPad" mean that an electronic accessory has been designed to connect specifically to iPod, iPhone, or iPad, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod, iPhone, or iPad may affect wireless performance.

#### **II** Conformity Marking

The standards with which the camera complies can be viewed using the **Conformity marking** option in the setup menu.

#### **■** FreeType License (FreeType2)

Portions of this software are copyright © 2012 The FreeType Project (http://www.freetype.org). All rights reserved.

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Portions of this software are copyright © 2016 The HarfBuzz Project (http://www.freedesktop.org/wiki/Software/HarfBuzz). All rights reserved.

# **For Your Safety**

To prevent damage to property or injury to yourself or to others, read "For Your Safety" in its entirety before using this product.

Keep these safety instructions where all those who use this product will read them.

⚠ DANGER: Failure to observe the precautions marked with this icon carries a high risk of death or severe injury.

MARNING: Failure to observe the precautions marked with this icon could result in death or severe injury.

⚠ CAUTION: Failure to observe the precautions marked with this icon could result in injury or property damage.

### ∕!\ WARNING

- Do not use while walking or operating a motor vehicle.
- Failure to observe this precaution could result in accidents or other injury.
- Do not disassemble or modify this product. Do not touch internal parts that become exposed as the result of a fall or other accident.

Failure to observe these precautions could result in electric shock or other injury.

- Should you notice any abnormalities such as the product producing smoke, heat, or unusual odors, immediately disconnect the battery or power source. Continued operation could result in fire, burns or other injury.
- Keep dry. Do not handle with wet hands.
   Do not handle the plug with wet hands.
   Failure to observe these precautions could result in fire or electric shock.
- Do not let your skin remain in prolonged contact with this product while it is on or plugged in.

Failure to observe this precaution could result in low-temperature burns.

- Do not use this product in the presence of flammable dust or gas such as propane, gasoline or aerosols.
   Failure to observe this precaution could result in explosion or fire.
- Do not directly view the sun or other bright light source through the lens or camera.
  - Failure to observe this precaution could result in visual impairment.
- Do not aim the flash or AF-assist illuminator at the operator of a motor vehicle.
  - Failure to observe this precaution could result in accidents.
- Keep this product out of reach of children.

Failure to observe this precaution could result in injury or product malfunction. In addition, note that small parts constitute a choking hazard. Should a child swallow any part of this product, seek immediate medical attention.

 Do not entangle, wrap or twist the straps around your neck.

Solve to observe this proportion sould.

Failure to observe this precaution could result in accidents.

- Do not use batteries, chargers, or AC adapters not specifically designated for use with this product. When using batteries, chargers, and AC adapters designated for use with this product, do not:
  - Damage, modify, forcibly tug or bend the cords or cables, place them under heavy objects, or expose them to heat or flame
- Use travel converters or adapters designed to convert from one voltage to another or with DC-to-AC inverters.
   Failure to observe these precautions could result in fire or electric shock.
- Do not handle the plug when charging the product or using the AC adapter during thunderstorms.

Failure to observe this precaution could result in electric shock.

 Do not handle with bare hands in locations exposed to extremely high or low temperatures.

Failure to observe this precaution could result in burns, or frostbite.

## **!** CAUTION

- Do not leave the lens pointed at the sun or other strong light sources.
   Light focused by the lens could cause fire or damage to product's internal parts.
   When shooting backlit subjects, keep the sun well out of the frame. Sunlight focused into the camera when the sun is close to the frame could cause fire.
- Turn this product off when its use is prohibited. Disable wireless features when the use of wireless equipment is prohibited.

The radio-frequency emissions produced by this product could interfere with equipment onboard aircraft or in hospitals or other medical facilities.

- Remove the battery and disconnect the AC adapter if this product will not be used for an extended period.
   Failure to observe this precaution could result in fire or product malfunction.
- Do not touch moving parts of the lens or other moving parts.
   Failure to observe this precaution could result in injury.
- Do not fire the flash in contact with or in close proximity to the skin or objects.
   Failure to observe this precaution could result in burns or fire.
- Do not leave the product where it will be exposed to extremely high temperatures, for an extended period such as in an enclosed automobile or in direct sunlight.

Failure to observe this precaution could result in fire or product malfunction.

# NANGER (Batteries)

- Do not mishandle batteries.
- Failure to observe the following precautions could result in the batteries leaking, overheating, rupturing, or catching fire:
- Use only rechargeable batteries approved for use in this product.
- Do not expose batteries to flame or excessive heat
- Do not disassemble.
- Do not short-circuit the terminals by touching them to necklaces, hairpins, or other metal objects.
- Do not expose batteries or the products in which they are inserted to powerful physical shocks.
- Do not attempt to recharge EN-EL14a rechargeable batteries using chargers not specifically designated for this purpose.

Failure to observe this precaution could result in the batteries leaking, overheating, rupturing, or catching fire.

 If battery liquid comes into contact with the eyes, rinse with plenty of clean water and seek immediate medical attention.
 Delaying action could result in eye injuries.

# NARNING (Batteries)

- Keep batteries out of reach of children.
   Should a child swallow a battery, seek immediate medical attention.
- Do not immerse batteries in water or expose to rain.
   Failure to observe this precaution could

result in fire or product malfunction.

Immediately dry the product with a towel or similar object should it become wet.

 Discontinue use immediately should you notice any changes in the batteries, such as discoloration or deformation.
 Cease charging EN-EL14a rechargeable batteries if they do not charge in the specified period of time.

Failure to observe these precautions could result in the batteries leaking, overheating, rupturing, or catching fire.

 Prior to disposal, insulate battery terminals with tape.

Overheating, rupture, or fire may result should metal objects come into contact with the terminals. Recycle or dispose of batteries in accord with local regulations.

 If battery liquid comes into contact with a person's skin or clothing, immediately rinse the affected area with plenty of clean water.

Failure to observe this precaution could result in skin irritation.

### **Notices**

- No part of the manuals included with this product may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language in any form, by any means, without Nikon's prior written permission.
- Nikon reserves the right to change the appearance and specifications of the hardware and software described in these manuals at any time and without prior notice.
- Nikon will not be held liable for any damages resulting from the use of this product.
- While every effort has been made to ensure that the information in these manuals is accurate and complete, we would appreciate it were you to bring any errors or omissions to the attention of the Nikon representative in your area (address provided separately).

Notice for Customers in Canada CAN ICES-3 B / NMB-3 B

#### Notices for Customers in Europe

CAUTION: RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

This symbol indicates that electrical and electronic equipment is to be collected separately.



The following apply only to users in European countries:

- This product is designated for separate collection at an appropriate collection point. Do not dispose of as household waste.
- Separate collection and recycling helps conserve natural resources and prevent negative consequences for human health and the environment that might result from incorrect disposal.
- For more information, contact the retailer or the local authorities in charge of waste management.

This symbol on the battery indicates that the battery is to be collected separately.



The following apply only to users in European countries:

- All batteries, whether marked with this symbol or not, are designated for separate collection at an appropriate collection point. Do not dispose of as household waste.
- For more information, contact the retailer or the local authorities in charge of waste management.

#### Notices for Customers in the U.S.A.

The Battery Charger
IMPORTANT SAFETY INSTRUCTIONS—
SAVE THESE INSTRUCTIONS
DANGER—TO REDUCE THE RISK OF
FIRE OR ELECTRIC SHOCK, CAREFULLY
FOLLOW THESE INSTRUCTIONS

For connection to a supply not in the U.S.A., use an attachment plug adapter of the proper configuration for the power outlet if needed. This power unit is intended to be correctly oriented in a vertical or floor mount position.

#### Federal Communications Commission (FCC) Radio Frequency Interference Statement



#### **Nikon** D5600

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications However, there is no quarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on. the user is encouraged to try to correct the interference by one or more of the following measures:

- · Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

 Consult the dealer or an experienced radio/television technician for help.

#### CAUTIONS

#### Modifications

The FCC requires the user be notified that any changes or modifications made to this device that are not expressly approved by Nikon Corporation may void the user's authority to operate the equipment.

#### Interface Cables

Use the interface cables sold or provided by Nikon for your equipment. Using other interface cables may exceed the limits of Class B Part 15 of the FCC rules.

# Notice for Customers in the State of California

WARNING: Handling the cord on this product may expose you to lead, a chemical known to the State of California to cause birth defects or other reproductive harm. Wash hands after handling.

Nikon Inc., 1300 Walt Whitman Road, Melville, New York 11747-3064, U.S.A. Tel.: 631-547-4200

#### Notice Concerning Prohibition of Copying or Reproduction

Note that simply being in possession of material that has been digitally copied or reproduced by means of a scanner, digital camera, or other device may be punishable by law.

#### Items prohibited by law from being copied or reproduced

Do not copy or reproduce paper money, coins, securities, government bonds, or local government bonds, even if such copies or reproductions are stamped "Sample."

The copying or reproduction of paper money, coins, or securities which are circulated in a foreign country is prohibited.

Unless the prior permission of the government has been obtained, the copying or reproduction of unused postage stamps or post cards issued by the government is prohibited.

The copying or reproduction of stamps issued by the government and of certified documents stipulated by law is prohibited.

#### Cautions on certain copies and reproductions

The government has issued cautions on copies or reproductions of securities issued by private companies (shares, bills, checks, gift certificates, etc.), commuter passes, or coupon tickets, except when a minimum of necessary copies are to be provided for business use by a company. Also, do not copy or reproduce passports issued by the government, licenses issued by public agencies and private groups, ID cards, and tickets, such as passes and meal coupons.

#### Comply with copyright notices

Under copyright law, photographs or recordings of copyrighted works made with the camera can not be used without the permission of the copyright holder. Exceptions apply to personal use, but note that even personal use may be restricted in the case of photographs or recordings of exhibits or live performances.

#### **Disposing of Data Storage Devices**

Please note that deleting images or formatting memory cards or other data storage devices does not completely erase the original image data. Deleted files can sometimes be recovered from discarded storage devices using commercially available software, potentially resulting in the malicious use of personal image data. Ensuring the privacy of such data is the user's responsibility.

Before discarding a data storage device or transferring ownership to another person, erase all data using commercial deletion software, or format the device and then completely refill it with images containing no private information (for example, pictures of empty sky). Be sure to also replace any pictures selected for preset manual. Before discarding the camera or transferring ownership to another person, you should also use the Wi-Fi > Reset connection settings option in the camera setup menu to delete any personal network

information. Care should be taken to avoid injury when physically destroying data storage devices.

#### AVC Patent Portfolio License

THIS PRODUCT IS LICENSED UNDER THE AVC PATENT PORTFOLIO LICENSE FOR THE PERSONAL AND NON-COMMERCIAL USE OF A CONSUMER TO (I) ENCODE VIDEO IN COMPLIANCE WITH THE AVC STANDARD ("AVC VIDEO") AND/OR (III) DECODE AVC VIDEO THAT WAS ENCODED BY A CONSUMER ENGAGED IN A PERSONAL AND NON-COMMERCIAL ACTIVITY AND/OR WAS OBTAINED FROM A VIDEO PROVIDER LICENSED TO PROVIDE AVC VIDEO. NO LICENSE IS GRANTED OR SHALL BE IMPLIED FOR ANY OTHER USE. ADDITIONAL INFORMATION MAY BE OBTAINED FROM MPEG LA, L.L.C. SEE http://www.mpegla.com

#### Use Only Nikon Brand Electronic Accessories

Nikon cameras are designed to the highest standards and include complex electronic circuitry. Only Nikon brand electronic accessories (including chargers, batteries, AC adapters, and flash accessories) certified by Nikon specifically for use with this Nikon digital camera are engineered and proven to operate within the operational and safety requirements of this electronic circuitry.

The use of non-Nikon electronic accessories could damage the camera and may void

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your Nikon warranty. The use of third-party rechargeable Li-ion batteries not bearing the Nikon holographic seal shown at right could interfere with normal operation of the camera or result in the batteries overheating, igniting, rupturing, or leaking. For more information about Nikon brand accessories, contact a local authorized Nikon dealer.

#### **▼** Use Only Nikon Brand Accessories

Only Nikon brand accessories certified by Nikon specifically for use with your Nikon digital camera are engineered and proven to operate within its operational and safety requirements. The use of Non-Nikon accessories could damage your camera and may yold your Nikon warranty.

#### Before Taking Important Pictures

Before taking pictures on important occasions (such as at weddings or before taking the camera on a trip), take a test shot to ensure that the camera is functioning normally. Nikon will not be held liable for damages or lost profits that may result from product malfunction.

#### Life-Long Learning

As part of Nikon's "Life-Long Learning" commitment to ongoing product support and education, continually-updated information is available on-line at the following sites:

- For users in the U.S.A.: http://www.nikonusa.com/
- For users in Europe and Africa: http://www.europe-nikon.com/support/
- For users in Asia, Oceania, and the Middle East: http://www.nikon-asia.com/

Visit these sites to keep up-to-date with the latest product information, tips, answers to frequently-asked questions (FAQs), and general advice on digital imaging and photography. Additional information may be available from the Nikon representative in your area. See the following URL for contact information: <a href="http://imaging.nikon.com/">http://imaging.nikon.com/</a>

# Bluetooth and Wi-Fi (Wireless LAN)

This product is controlled by the United States Export Administration Regulations (EAR). The permission of the United States government is not required for export to countries other than the following, which as of this writing are subject to embargo or special controls: Cuba, Iran, North Korea, Sudan, and Syria (list subject to change).

The use of wireless devices may be prohibited in some countries or regions. Contact a Nikonauthorized service representative before using the wireless features of this product outside the country of purchase.

#### Notice for Customers in the U.S.A. and Canada

This device complies with Part 15 of FCC Rules and Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

#### FCC WARNING

The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by Nikon Corporation may void the user's authority to operate the equipment.

#### **FCC Radio Frequency Interference Statement**

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- · Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

#### Co-location

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

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#### FCC/IC RF Exposure Statement

The available scientific evidence does not show that any health problems are associated with using low power wireless devices. There is no proof, however, that these low power wireless devices are absolutely safe. Low power wireless devices emit low levels of radio frequency energy (RF) in the microwave range while being used. Whereas high levels of RF can produce health effects (by heating tissue), exposure of low-level RF that does not produce heating effects causes no known adverse health effects. Many studies of low-level RF exposures have not found any biological effects. Some studies have suggested that some biological effects might occur, but such findings have not been confirmed by additional research. The D5600, which is equipped with a LBEESUW1FS (FCC ID:VPYLB1FS / C ID:772C-LB1FS) Wireless LAN Module, has been tested and found to comply with FCC/IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65 and RSS-102 of the IC radio frequency (RF) Exposure rules. Please refer to the SAR test report that was uploaded to FCC website

#### Notices for Customers in Europe

Hereby, Nikon Corporation, declares that the D5600 is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. The declaration of conformity may be consulted at <a href="http://imaging.nikon.com/support/pdf/Doc\_D5600.pdf">http://imaging.nikon.com/support/pdf/Doc\_D5600.pdf</a>



#### **Notice for Customers in Singapore**

Trade Name: **Nikon** Model: D5600

This device complies with radio-frequency regulations. The content of certification labels not affixed to the device is given below.

Complies with IDA Standards DA103423

#### Notice for Customers in Jordan

TRC/SS/2016/432

#### **Notice for Customers in the United Arab Emirates**

TRA
REGISTERED No:
ER45171/16
DEALER No:
DA39487/15

#### Security

Although one of the benefits of this product is that it allows others to freely connect for the wireless exchange of data anywhere within its range, the following may occur if security is not enabled:

- Data theft: Malicious third-parties may intercept wireless transmissions to steal user IDs, passwords, and other personal information.
- Unauthorized access: Unauthorized users may gain access to the network and alter data or perform other malicious actions. Note that due to the design of wireless networks,
  - specialized attacks may allow unauthorized access even when security is enabled.
- Unsecured networks: Connecting to open networks may result in unauthorized access. Use secure networks only.

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