

D3300 SPECIFICATIONS

Type

Single-lens reflex digital camera

Lens mount

Nikon F mount (with AF contacts)

Effective angle of view

Approx. 1.5x that of lenses with FX format angle of view

Effective pixels

24.2 million

Image sensor

23.5 x 15.6 mm CMOS sensor

Total pixels

24.78 million

Dust-reduction System

Image sensor cleaning, Image Dust Off reference data (optional Capture NX 2 software required)

Image size (pixels)

Easy panorama mode: 4800 x 1080 (normal, horizontal pan) 1632 x 4800 (normal, vertical pan) 9600 x 1080 (wide, horizontal pan) 1632 x 9600 (wide, vertical pan)
Other modes: 6000 x 4000 (Large) 4496 x 3000 (Medium) 2992 x 2000 (Small)

File format

NEF (RAW): 12 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, Landscape; selected Picture Control can be modified

Media

SD (Secure Digital) and UHS-I compliant SDHC and SDXC memory cards

File system

DCF 2.0, DPOF, Exif 2.3, PictBridge

Viewfinder

Eye-level pentamirror single-lens reflex viewfinder

Frame coverage

Approx. 95% horizontal and 95% vertical

Eyepoint

18 mm (-1.0 m⁻¹; from center surface of viewfinder eyepiece lens)

Diopter adjustment

-1.7 - +0.5 m⁻¹

Focusing screen

Type B BriteView Clear Matte Mark VII screen

Reflex mirror

Quick return

Lens aperture

Instant return, electronically controlled

Compatible lenses

Autofocus is available with AF-S and AF-I lenses. Autofocus is not available with other type G and D lenses, AF lenses (IX NIKKOR and lenses for the F3AF are not supported), and AI-P lenses. Non-CPU lenses can be used in mode M, but the camera exposure meter will not function. The electronic rangefinder can be used with lenses that have a maximum aperture of f/5.6 or faster.

Shutter type

Electronically-controlled vertical-travel focal-plane shutter

Shutter speed

1/4000 - 30 s in steps of 1/3 EV; Bulb; Time

Shutter flash sync speed

X=1/200 s; synchronizes with shutter at 1/200 s or slower

Release mode

Single frame, continuous, quiet shutter release, self-timer, delayed remote; ML-L3, quick-response remote; ML-L3

Frame advance rate

Up to 5 fps Note: Frame rates assume manual focus, manual or shutter-priority auto exposure, a shutter speed of 1/250 s or faster, and other settings at default values.

Self-timer

2 s, 5 s, 10 s, 20 s; 1-9 exposures

Metering mode

TTL exposure metering using 420-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 lens, 20°C/68°F)

Matrix or center-weighted metering: 0-20 EV Spot metering: 2-20 EV

Exposure meter coupling

CPU

Mode

Auto modes (auto; auto, flash off); programmed auto with flexible program (P); shutter-priority auto (S); aperture-priority auto (A); manual (M); scene modes (portrait; landscape; child; sports; close up; night portrait); special effects modes (night vision; super vivid; pop; photo illustration; color sketch; toy camera effect; miniature effect; selective color; silhouette; high key; low key; HDR painting; easy panorama)

Exposure compensation

Can be adjusted by -5 - +5 EV in increments of 1/3 EV in P, S, A, and M modes

Exposure lock

Luminosity locked at detected value with AE-L/AF-L button

ISO sensitivity (Recommended Exposure Index)

ISO 100-12800 in steps of 1 EV. Can also be set to approx. 1 EV (ISO 25600 equivalent) above ISO 12800; auto ISO sensitivity control available

Active D-Lighting

On, off

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. 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 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

Built-in flash

Auto, portrait, child, close up, night portrait, super vivid, pop, photo illustration, color sketch, toy camera effect: Auto flash with auto pop-up P, S, A, M: Manual pop-up with button release

Guide Number

Approx. 12/39, 13/43 with manual flash (m/ft, ISO 100, 20°C/68°F)

Flash control

TTL: i-TTL flash control using 420-pixel RGB sensor is available with built-in flash and SB-910, SB-900, SB-800, SB-700, SB-600, SB-400, or SB-300; i-TTL balanced fill-flash for digital SLR is used with matrix and center-weighted metering, standard i-TTL flash for digital SLR with spot 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

-3 - +1 EV in increments of 1/3 EV

Flash-ready indicator

Lights when built-in flash or optional flash unit is fully charged; flashes 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 built-in flash, SB-910, SB-900, SB-800, or SB-700 as a master flash and SB-600 or SB-R200 as remotes, or SU-800 as commander; Flash Color Information Communication supported with built-in flash and all CLS-compatible flash units

Sync terminal

AS-15 sync terminal adapter (available separately)

White balance

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

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)

Automatic scene selection

Available in auto and auto (flash off) modes

Metering

TTL exposure metering using main image sensor

Metering method

Matrix

Frame size (pixels) and frame rate

1920 x 1080, 60p (progressive)/50p/30p/25p/24p, high/normal 1280 x 720, 60p/50p, high/normal 640 x 424, 30p/25p, high/normal Frame rates of 30p (actual frame rate 29.97 fps) and 60p (actual frame rate 59.94 fps) are available when NTSC is selected for video mode. 25p and 50p are available when PAL is selected for video mode. Actual frame rate when 24p is selected is 23.976 fps.

File format

MOV

Video compression

H.264/MPEG-4 Advanced Video Coding

Audio recording format

Linear PCM

Audio recording device

Built-in monaural or external stereo microphone; sensitivity adjustable

ISO sensitivity

ISO 200 - 6400; can also be set to approx. 1 EV above ISO 6400 (ISO 12800 equivalent)

Monitor

7.5-cm (3-in.), approx. 921k-dot (VGA) TFT LCD with 170° viewing angle, approx. 100% frame coverage, and brightness adjustment

Playback

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

USB

Hi-Speed USB

Video output

NTSC, PAL

HDMI output

Type C mini-pin 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 (3.5mm diameter); supports optional ME-1 stereo microphones

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

Battery

One rechargeable Li-ion EN-EL14a battery

AC adapter

EH-5b AC adapter; requires EP-5A power connector (available separately)

Tripod socket

1/4 in. (ISO 1222)

Dimensions (W x H x D)

Approx. 124 x 98 x 75.5 mm (4.9 x 3.9 x 3 in.)

Weight

Approx. 460 g (1 lb 0.2 oz) with battery and memory card but without body cap;
approx. 410 g/14.5 oz (camera body only)

Temperature

0 - 40°C (+32 - 104°F)

Humidity

Less than 85% (no condensation)