Specifications

▉ *Nikon D5100 Digital Camera*

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

Effective pixels	
Effective pixels	16.2 million

Image sensor	
Image sensor	23.6 × 15.6 mm CMOS sensor
Total pixels	16.9 million
Dust-reduction System	Image sensor cleaning, Image Dust Off reference data (optional Capture NX 2 software required)

Storage	
Image size (pixels)	• 4,928 × 3,264 (L) • 3,696 × 2,448 (M) • 2,464 × 1,632 (S)
File format	• **NEF (RAW)**: 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, Landscape; selected Picture Control can be modified; storage for custom Picture Controls
Media	SD (Secure Digital), SDHC, and SDXC memory cards
File system	DCF (**D**esign Rule for **C**amera **F**ile System) 2.0, DPOF (**D**igital **P**rint **O**rder **F**ormat), Exif 2.3 (**Ex**changeable **I**mage **F**ile 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. 0.78 × (50 mm f/1.4 lens at infinity, −1.0 m^{-1})
Eyepoint	17.9 mm (−1.0 m^{-1}; from center surface of viewfinder eyepiece lens)
Diopter adjustment	−1.7 – +0.7 m^{-1}
Focusing screen	Type B BriteView Clear Matte Mark VII screen
Reflex mirror	Quick return
Lens aperture	Instant return, electronically controlled