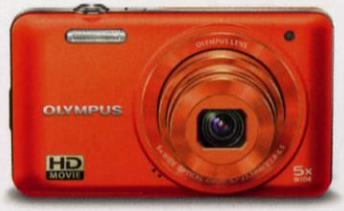
Digital Photography

- Programme Content Outline
  - Equipment
  - Exposure
  - Scene modes
  - Taking control
  - Creativity
  - Portraiture
  - Holiday and Travel
  - Flash Photography
  - Macro Photography
  - Photo Editing
  - File Management and Back up

Equipment

CAMERAPHONE	BASIC COMPACT	ADVANCED COMPACT
		
Has a fixed lens and minimal control over exposures, but with the advantage that you'll have it to hand at all times.	A modest zoom range and primarily automatic controls makes this an ideal point-and-shoot camera.	Provides manual control, and in some cases Raw file capture, with the convenience of a portable size.
FUNCTIONALITY	**FUNCTIONALITY**	**FUNCTIONALITY**
■ Fixed lens ■ Few manual controls ■ Easy to share images, either via email or text message, or by uploading to social networking sites ■ Small, discreet, and pocketable	■ Zoom lens covering wide to telephoto focal lengths ■ Automatic/semi-automatic shooting modes ■ JPEG only ■ Small and pocketable	■ Zoom lens covering wide to telephoto focal lengths ■ Automatic and manual shooting modes ■ Range of creative controls ■ Raw and JPEG capture ■ Small and pocketable

BRIDGE/SUPERZOOM

Combines dSLR styling and features (including manual control) with a wide-ranging zoom lens.

FUNCTIONALITY

- All-encompassing zoom lens covering wide to super-telephoto focal lengths
- Non-interchangeable lens
- Small, compact-camera sized sensor
- Automatic and manual shooting modes
- Full range of creative controls
- dSLR-style handling

CSC

A full range of automatic, manual, and creative controls, plus interchangeable lenses, all in a small camera body.

FUNCTIONALITY

- Interchangeable lenses
- High quality dSLR-sized sensor
- Fully automatic to fully manual control
- Full range of creative controls
- Raw and JPEG capture
- Electronic viewfinder
- Compact and dSLR-style camera bodies available

DSLR

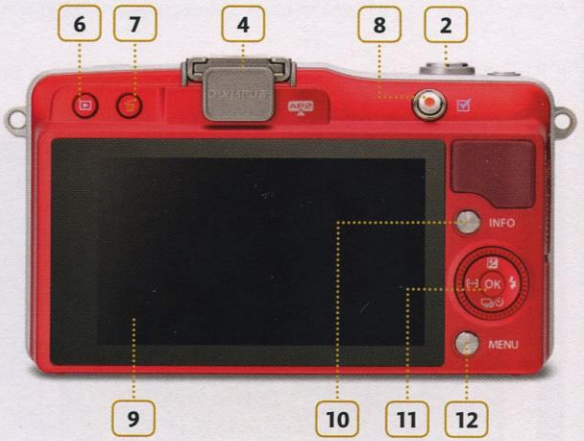
A tried-and-tested design and the favoured camera of countless enthusiast and professional photographers.

FUNCTIONALITY

- Wide range of lenses and accessories
- Full-frame and sub-full-frame sensor sizes available
- Full manual control over all aspects of your photography
- Raw and JPEG image capture
- Optical through-the-lens viewfinder
- Ergonomic design

COMPACT SYSTEM CAMERA (CSC)

There are generally two styles of CSC currently on the market: those that are similar to compact cameras (top), and those that take their styling lead from dSLRs, complete with mode dials and eye-level viewfinders (below). Which type is best for you depends on your style of photography: compact designs tend to favour go-anywhere spontanaeity.



SCREEN OPTIONS

If your dSLR camera has the ability to shoot video, then it will also offer Live View, which allows you to view and frame your shots using the rear LCD screen instead of the viewfinder. This can be a very useful feature, especially if your camera has a screen that folds out and can be rotated, as it will help you shoot from less conventional angles. In turn, this can help you create more dramatic images.

BACK VIEW

If the front of a dSLR camera is relatively sparsely populated, the back is almost certain to be bristling with buttons, switches, and control wheels. Although this may seem daunting at first, all manufacturers carefully consider which controls to put on the outside of the camera (and where), for instant access, and which to keep hidden in the menu system.

1
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15
7
4
16
8
9
6
17
18
55 45 35 24 18
VR
Nikon DX
AF-S NIKKOR 18-55mm 1:3.5-5.6G
OFF ON
Info
SCENE
GUIDE
AUTO

1
2
3
4
5
6
7
8
9
10
11
12
13
14
CANON ZOOM LENS EF 24-105mm 1:4 L IS USM
24-105mm
24 35 50 70 105
AF DRIVE ISO
OFF ON
AF-ON

EXTRAS

If you choose to invest in a dSLR or CSC, then there's a wide range of lenses, flash units, and other accessories that can help you take your photography to another level. And regardless of which type of camera you choose, a camera case and memory card are essential extras. This chapter will show you what's available so you can decide what you need.

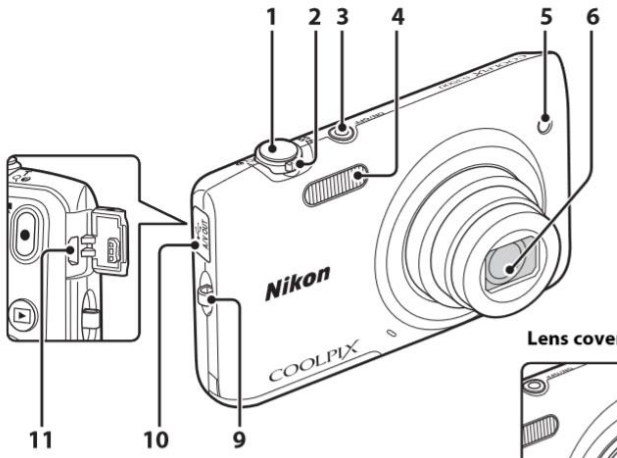
PRIMARY CONSIDERATIONS:

- Lenses to expand your range of focal lengths
- An external flash for low-light shots and fill-flash
- A tripod
- A comfortable and accessible camera case or bag
- Spare battery and memory card(s)
- Polaroid & Neutral Density Filters

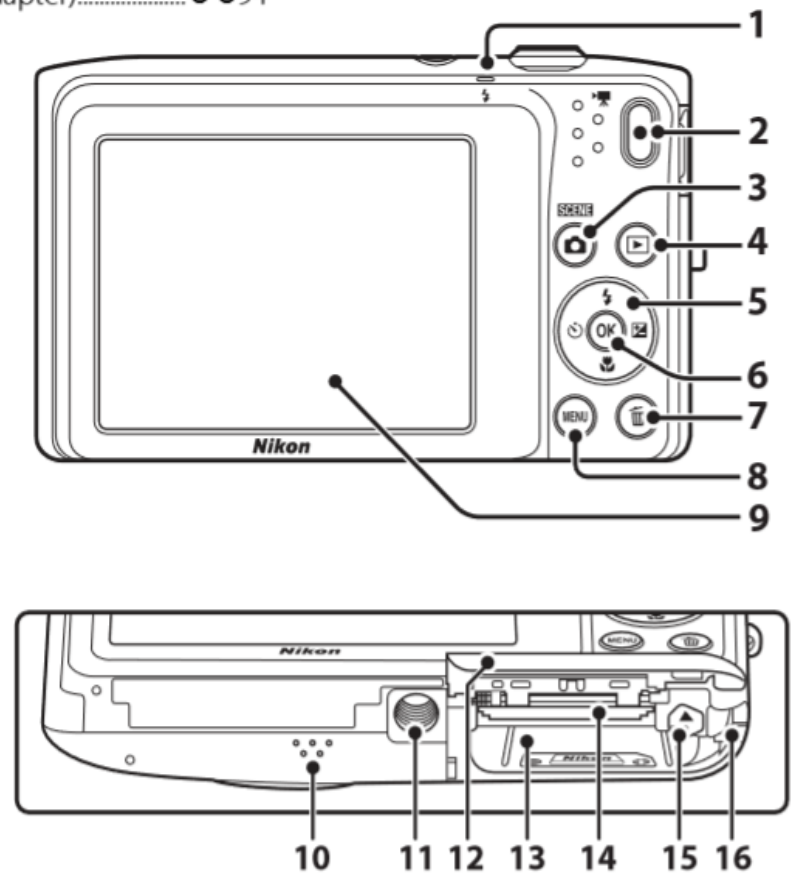
Typical digital point and shoot camera

1	Shutter-release button 30	6	Lens
2	Zoom control ..... 29 W: Wide-angle ..... 29 T: Telephoto ..... 29 : Thumbnail playback ..... 74 : Playback zoom ..... 75 : Help 40	7	Lens cover 2
		8	Built-in microphone 90, 59
		9	Eyelet for camera strap 5
3	Power switch/power-on lamp 24, 25	10	Connector cover 16, 80, 22, 26
4	Flash 53	11	USB/audio/video output connector 16, 80, 22, 26
5	Self-timer lamp ..... 55 AF-assist illuminator 98		

The Camera Body



1	Charge lamp ..... 17, 84 Flash lamp 53
2	● (movie-record) button 90
3	(shooting mode) button 26, 38, 40, 47, 49
4	(playback) button 32, 77
5	Multi selector
6	(apply selection) button
7	(delete) button 34, 95, 60
8	MENU button 6, 62, 78, 94, 98
9	Monitor 8
10	Speaker 95, 60
11	Tripod socket 19
12	Battery-chamber/ memory card slot cover 14, 15
13	Battery chamber 14
14	Memory card slot 18
15	Battery latch 14
16	Power connector cover (for connection with optional AC adapter) 94

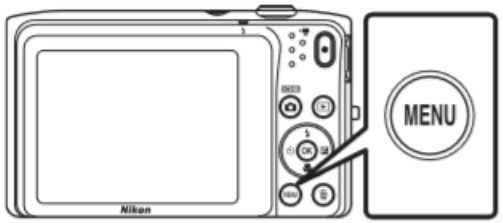


Menu selections

Use the multi selector and the OK button to navigate the menus.

1 Press the MENU button.

- The menu is displayed.

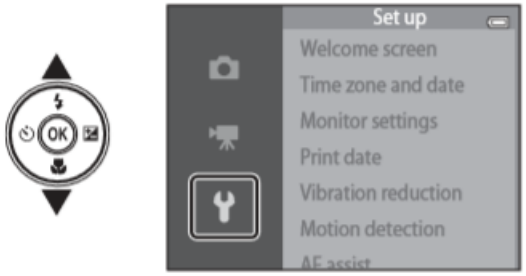


2 Press the multi selector ◀.

- The current menu icon is displayed in yellow.

3 Press ▲ or ▼ to select the desired menu icon.

- The menu is changed.

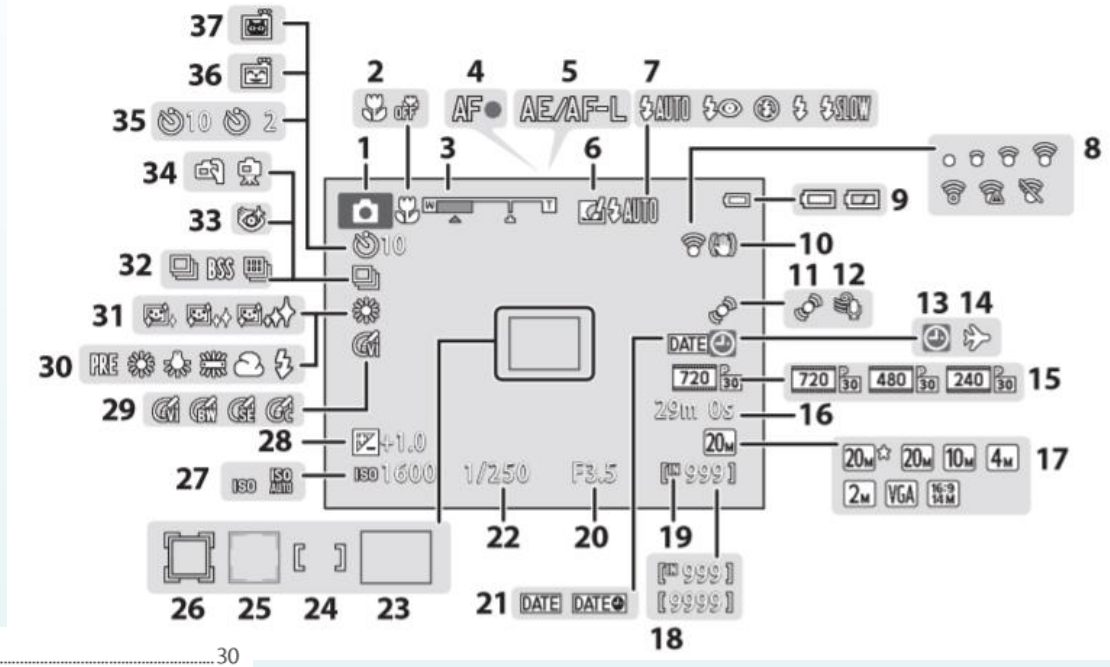


4 Press the OK button.

- The menu options become selectable.

Will also have disc formatting option

Shooting Mode



1	Shooting mode	26, 38, 40, 47, 49
2	Macro mode	57
3	Zoom indicator	29, 57
4	Focus indicator	30
5	AE/AF-L indicator	4
6	Quick effects icon	64, 47
7	Flash mode	53
8	Eye-Fi communication indicator	99, 87
9	Battery level indicator	24
10	Vibration reduction icon	98, 73
11	Motion detection icon	98, 75
12	Wind noise reduction	94, 65
13	"Date not set" indicator	20, 67, 95
14	Travel destination	98, 67
15	Movie options	94, 63
16	Movie length	90, 64
17	Image mode	63, 32
18	Number of exposures remaining (still images)	24, 33
19	Internal memory indicator	24, 90
20	Aperture value	30
21	Print date	98, 72
22	Shutter speed	30
23	Focus area (auto)	30, 63, 42
24	Focus area (for manual or center)	63, 43
25	Focus area (face detection, pet detection)	30, 46, 49, 63, 42
26	Focus area (subject tracking)	63, 43
27	ISO sensitivity	63, 39
28	Exposure compensation value	59
29	Color options	63, 41
30	White balance mode	63, 34
31	Skin softening	64, 48
32	Continuous shooting mode	63, 37
33	Blink proof	64, 50
34	Hand-held/tripod	43
35	Self-timer indicator	55
36	Smile timer	64, 49
37	Pet portrait auto release	46, 55

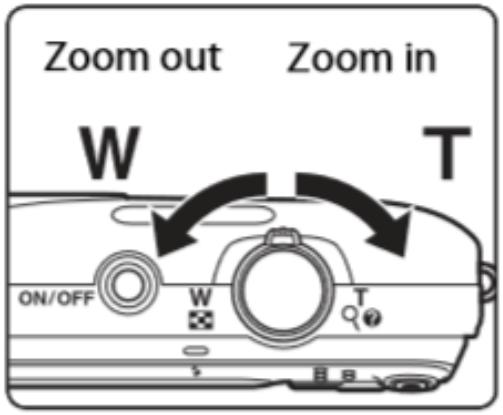
Available Shooting Modes

	Auto mode	38
	Used for general shooting. Settings can be adjusted in the shooting menu (63) to suit the shooting conditions and the type of shot you want to capture.	
SCENE	**Scene**	40
	Camera settings are automatically optimized for the selected scene. When using scene auto selector, the camera automatically selects the optimum scene mode when you frame an image, making it even easier to take images using settings that suit the scene. • To select a scene, first display the shooting mode selection menu and then press the multi selector ▶. Select the desired scene by pressing ▲, ▼, ◀, or ▶, and then press the OK button.	
SO	**Special effects**	47
	Effects can be applied to images during shooting. Twelve different effects are available. • To select an effect, first display the shooting mode menu and then press the multi selector ▶. Select the desired effect by pressing ▲, ▼, ◀, or ▶, and then press the OK button.	
	Smart portrait	49
	When the camera detects a smiling face, you can take an image automatically without pressing the shutter-release button (smile timer). The skin softening option can be used to make skin tones of human faces appear smoother.	

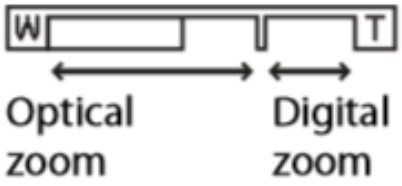
Using the Zoom

Use the zoom control to activate optical zoom.

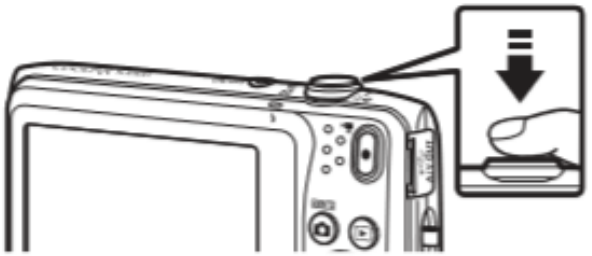
- Rotate the zoom control to **T** to zoom in so that the subject fills a larger area of the frame.
- Rotate the zoom control to **W** to zoom out, thus increasing the area visible in the frame.
- The zoom position is set at the maximum wide-angle position when the camera is turned on.



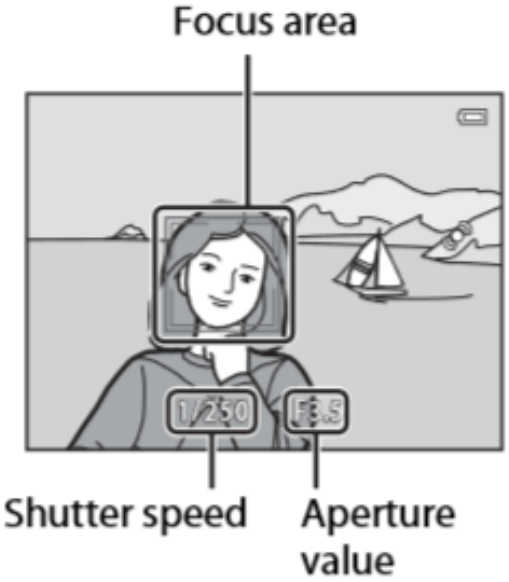
- A zoom indicator is displayed at the top of the monitor when the zoom control is rotated.
- Digital zoom, which allows you to further magnify the subject up to approximately 4× the maximum optical zoom ratio, can be activated by rotating and holding the zoom control to **T** when the camera is zoomed in to the maximum optical zoom position.



1 Press the shutter-release button halfway (📖31).



- When you press the shutter-release button halfway, the camera sets focus and exposure (shutter speed and aperture value). Focus and exposure remain locked while the shutter-release button is pressed halfway.
- When the subject is in focus, the focus area in the center of the frame glows green. See "AF Area" (📖67) for more information.
- When digital zoom is used, the focus area is not displayed and the camera focuses on the subject at the center of the frame. Once focus is acquired, the focus indicator (📖8) glows green.
- If the focus area or the focus indicator flashes red when the shutter-release button is pressed halfway, the camera is unable to focus. Modify the composition and press the shutter-release button halfway again.

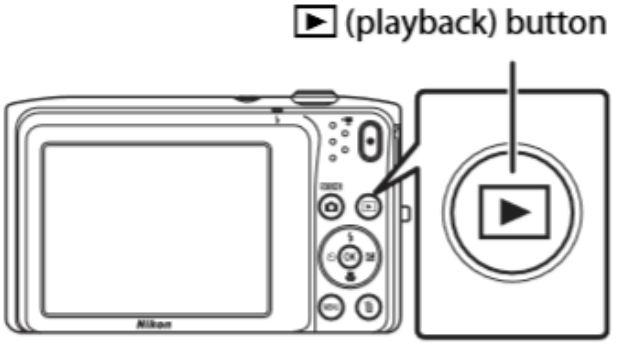


2 Press the shutter-release button the rest of the way down (📖31).

- The shutter is released and the image is saved to the memory card or internal memory.

1 Press the ▶ (playback) button.

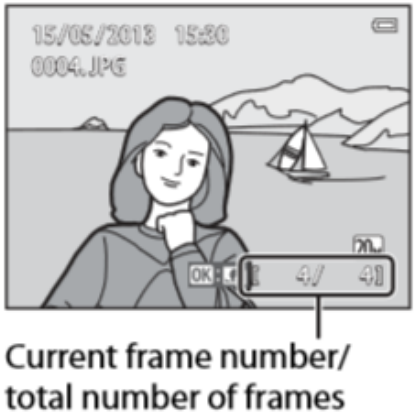
- The camera enters playback mode, and the last image captured is displayed in full-frame playback mode.



2 Use the multi selector to select an image to display.

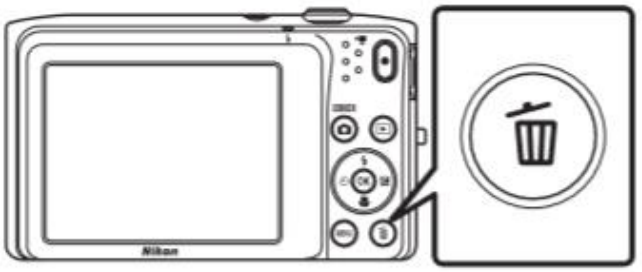
- Press ▲ or ◀ to view the previous image.
- Press ▼ or ▶ to view the next image.
- To scroll quickly through images, press and hold the multi selector ▲, ◀, ▼, or ▶.

- To play back images that are saved in the internal memory, remove the memory card. IN is displayed in the current frame number/total number of frames area.
- To return to shooting mode, press the 📷 button, the shutter-release button, or the ● (🎥 movie-record) button.



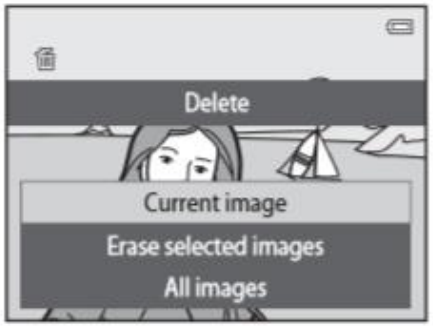
Step 6 Delete Images

1 Press the 🗑 button to delete the image currently displayed in the monitor.



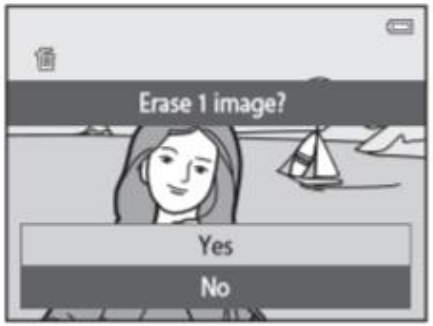
2 Press the multi selector ▲ or ▼ to choose the desired deletion method and press the OK button.

- **Current image**: Delete the image currently displayed.
- **Erase selected images**: Select multiple images and delete them. See "Operating the Erase Selected Images Screen" (📖35) for more information.
- **All images**: Delete all images.
- To exit without deleting the image, press the MENU button.



3 Press ▲ or ▼ to choose **Yes** and press the OK button.

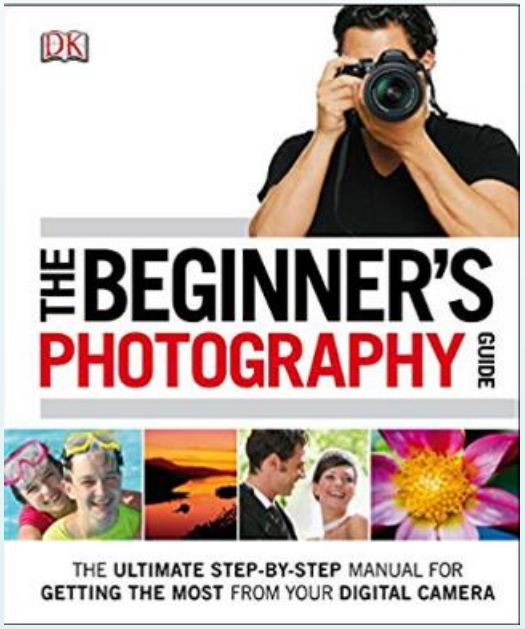
- Deleted images cannot be recovered.
- To exit without deleting the image, press ▲ or ▼ to select **No** and press the OK button.



Learning a few basic disciplines will help to capture unrepeatable magic moments

As we go through the programme you will learn to control the camera rather than it control you

The Beginner's Photography Guide (Dorling Kindersley)



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