⊞ Metering

Choose how the camera meters exposure.

| ⊞	Matrix (default setting)
	Camera sets exposure for entire frame. Recommended in most situations.
◉	Center-weighted
	Camera meters entire frame but assigns greatest weight to subject in center of frame. Classic meter for portraits; preserves background details while letting lighting conditions at center of frame determine exposure. Can be used with focus lock (✍ 92) to meter off-center subjects.

✔ Note on Metering

When digital zoom is in effect, **Metering** is set to **Center-weighted**, and the metered area is not displayed in the monitor.

◉ Metering Area

The active metering area is displayed in the monitor when **Center-weighted** is selected.
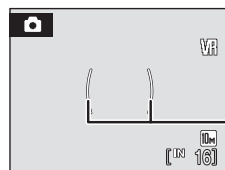
Active metering area

⊡ Continuous

Change settings to Continuous or Best Shot Selector (BSS). Flash will be switched off when **Continuous** or **BSS** is selected. Focus, exposure, and white balance are fixed at the values for the first picture in each series.

⊡	Single (default setting)
	One picture is taken each time shutter-release button is pressed.
⊡	Continuous
	While the shutter-release button is held down, pictures are taken at rate of up to about ## frames per second (fps) when image mode is set to ⊡ **Normal (3648)**. Shooting ends when the shutter-release button is released, or ten shots have been taken with the shutter-release button held down.
BSS	BSS
	BSS is recommended for shooting under low lighting without the flash, with the camera zoomed in, or in other situations in which camera shake is likely to blur pictures. The camera takes up to ten pictures while the shutter-release button is held down. The sharpest picture (picture with the most detail) in the series is automatically selected and saved.

At settings other than **Single**, the indicator for the current setting is displayed in the monitor (✍ 6).

✔ Note on Continuous Shooting

The maximum frame rate with continuous shooting may vary, depending upon the current image mode setting and the memory card used.

✔ Note on Best Shot Selector

BSS may not produce the desired results if the subject moves or the composition changes while the shutter-release button is pressed all the way down.

⊠ ISO Sensitivity

Sensitivity is a measure of how quickly the camera reacts to light. The higher the sensitivity, the less light needed to make an exposure. Although a high ISO rating is suited for taking pictures of subjects in action or in poor lighting, high sensitivity is often associated with "noise" -randomly spaced, brightly colored pixels concentrated in dark parts of the image.

Auto (default setting)
Sensitivity is ISO 100 under normal conditions; when lighting is poor, the camera compensates by raising sensitivity to a maximum of ISO 1600#.
100, 200, 400, 800, 1600, 3200#
Sensitivity will be locked at the specified value.

At settings other than **Auto**, the current setting is displayed in the monitor (c 6). If **Auto** is selected and the sensitivity is raised above an ISO 100, the ⊠ icon will be displayed (c 31).

C Color Options

Make colors more vivid or record pictures in monochrome.

⊠	Standard color (default setting)
	Use for pictures exhibiting natural color.
⊠	Vivid color
	Use to achieve a vivid, "photoprint" effect.
⊠	Black-and-white
	Record pictures in black-and-white.
⊠	Sepia
	Record pictures in sepia tones.
⊠	Cyanotype
	Record pictures in cyan-blue monochrome.
⊠	Pastel
	Change to a pastel shade.

The effects of the selected option can be previewed in the monitor. At settings other than **Standard color**, the icon for the current setting is displayed in the monitor (c 6). Monitor color tones also change depending upon the setting.

⊞ AF Area Mode

Use this option to determine where the camera focuses.

When digital zoom is in effect, the camera will focus on the subject in the center focus area regardless of the applied **AF area mode** option.

⊠	Face priority

The camera automatically detects and focuses on a face looking toward the camera (Shooting with Face Priority → c 93). If the camera detects multiple faces, the camera focuses on the face closest to the camera.
When shooting pictures of subjects other than people, or framing a subject with which no face is recognized, **AF area mode** will be set to **Auto**. The camera chooses the focus area (one of nine) containing the subject closest to the camera and focuses on the subject.

⊠	Auto (default setting)

Camera automatically selects the focus area (one of nine) containing the subject closest to the camera. Press the shutter-release button halfway to activate the focus area. When the shutter-release button is pressed halfway, the focus area selected by the camera will be displayed in the monitor.
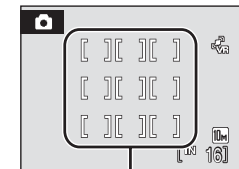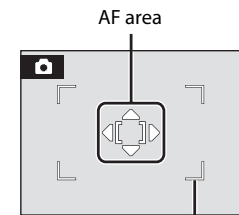
Focus areas

⊠	Manual

This option is suited to situations in which the intended subject is relatively still and not positioned in the center of the frame.
Press the rotary multi selector ▲, ▼, ◄ or ► to select one of 99 focus areas displayed in the monitor's focus-area selection screen, and shoot. To end focus-area selection and adjust the flash mode, macro mode, self-timer and exposure compensation settings, press the ⊠ button. To return to the focus-area selection screen, press the ⊠ button.
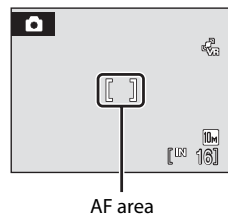
AF area

Selectable focus areas

Shooting Options: The Shooting Menu

[⊡] Center

Camera focuses on subject in center of frame. Center focus area is always used.

AF area

◆ Focus Lock

To focus on off-center subjects when **Center** is selected for **AF area mode**, use focus lock as described below.

1 Position the subject in the center of the frame.

2 Press the shutter-release button halfway.
- Confirm that the focus area indicator is green.

3 Continue holding down the shutter-release button halfway and recompose the picture.
- Be sure that the distance between the camera and the subject does not change.

4 Press the shutter-release button the rest of the way down to shoot.
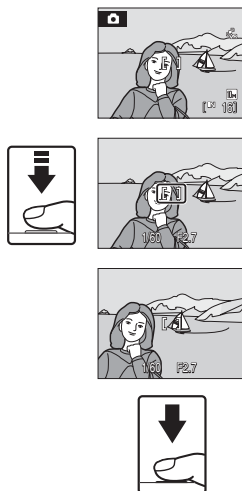
◆ More Information

See "Autofocus" (◆ 27) for more information.

Shooting Options: The Shooting Menu

Shooting with Face Priority

The face-priority function is activated when **Face priority** is selected for **AF area mode** (◆ 91), when shooting in **Portrait** (◆ 36) or **Night portrait** (◆ 37) scene mode, when the camera selects **Portrait** or **Night portrait** scene mode in scene auto selector mode (◆ 45), or when shooting in smile mode (◆ 49).

The camera automatically detects and focuses on a face looking toward the camera.

1 Frame a picture.

When the camera detects a face looking toward the camera, that face will be framed by a yellow double border.

When the camera detects more than one face, operation varies, depending upon the shooting mode, as follows.

| Shooting mode	Faces framed by a double border	The number of faces to be recognized
● (auto) mode (**Face priority**)	The face closest to the camera * The other faces are framed by a single border.	Up to 12
Scene mode: **Portrait**, **Night portrait**		
Smile mode	The face at the center of the frame * The other faces are framed by a single border.	Up to 3

2 Press the shutter-release button halfway.

The camera focuses on the face framed by the double border. The double border will glow green and focus will be locked.

When the camera is unable to focus, the double border will blink. Press the shutter-release button halfway again and focus.

Press the shutter-release button the rest of the way down to take the picture.

You don't need to press the shutter-release button halfway in smile mode. If the camera detects the smiling face, the shutter is automatically released (◆ 49).
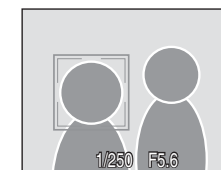
✔ Notes on Face Priority

- When **Face priority** is selected for **AF area mode**, the setting will automatically switch to **Auto** if no face is detected when the shutter-release button is pressed halfway.
- If no face is detected when the shutter-release button is pressed halfway in **Portrait** or **Night portrait** scene mode, or smile mode, the camera will focus on the subject in the center focus area.
- The camera may be unable to detect faces in the following situations:
  - When faces are partially hidden by sunglasses or other obstructions
  - When faces take up too much or too little of the frame
  - When the subject is not looking directly at the camera
- The camera's ability to detect faces depends on a variety of factors, including whether or not the subject is facing the camera.
- In some rare cases shooting subjects with which autofocus may not perform as expected (🖉 27), the subject may not be in focus despite the fact that the double border glows green. Should this occur, switch to ◻ (auto) mode and set **AF area mode** to **Manual** or **Center**, refocus on another subject positioned at the same distance from the camera as the actual portrait subject, and use focus lock (🖉 92).
- When pictures in which a face was detected during shooting are played back, the pictures will be automatically rotated for playback display, according to the orientation of the face detected.

▥ Autofocus Mode

Choose how the camera focuses.

🔲	Single AF (default setting)
	Camera focuses when the shutter-release button is pressed halfway.
🔲	Full-time AF
	Camera adjusts focus continuously until the shutter-release button is pressed halfway. Use with moving subjects.

✔ Notes on Autofocus Mode

Autofocus mode will be automatically fixed at **Single AF** when **Face priority** is selected for **AF area mode** (🖉 91).

Shooting, Playback, and Setup Menus

Functions that Cannot Be Applied Simultaneously

Restrictions apply to the following settings in ◻ (auto) mode.

Flash mode

Flash mode is automatically set to ⊛ (Off) and cannot be adjusted when **Continuous** or **BSS** is selected for the **Continuous** setting. Selecting **Single** for **Continuous** restores the last flash mode setting applied.

Self-timer

If self-timer is on, only one picture will be taken when the shutter is released, regardless of settings selected for the **Continuous** setting. The last **Continuous** setting applied is restored when picture is taken or self-timer is turned off.

White balance and Color options

White balance is automatically set to **Auto** and cannot be adjusted when **Black-and-white**, **Sepia**, or **Cyanotype** is selected for **Color options**.
Selecting **Standard color**, **Vivid color**, or **Pastel** restores the last **White balance** setting applied.

Autofocus mode

Autofocus mode is automatically set to **Single AF** and cannot be adjusted when **Face priority** is selected for **AF area mode**.
The last autofocus mode setting applied is restored when any setting other than **Face priority** is selected for **AF area mode**.

Shooting, Playback, and Setup Menus

Playback Options: The Playback Menu

The playback menu contains the following options.

🔲	**D-Lighting**	⏩ 54
	Enhances brightness and contrast in dark portions of pictures.	
🖨	**Print set**	⏩ 81
	Select pictures to print and the number of copies for each.	
🔲	**Slide show**	⏩ 98
	View pictures stored in the internal memory or on a memory card in an automatic slide show.	
🗑	**Delete**	⏩ 99
	Delete all or selected pictures.	
🔒	**Protect**	⏩ 99
	Protect selected pictures from accidental deletion.	
🔄	**Rotate image**	⏩ 100
	Change the orientation of an existing picture.	
🔲	**Small pic.**	⏩ 56
	Create a small copy of the current picture.	
🔲	**Copy**	⏩ 101
	Copy files between memory card and internal memory.	

Displaying the Playback Menu

Enter the playback mode by pressing the ▶ button.
Display the playback menu by pressing the **MENU** button.
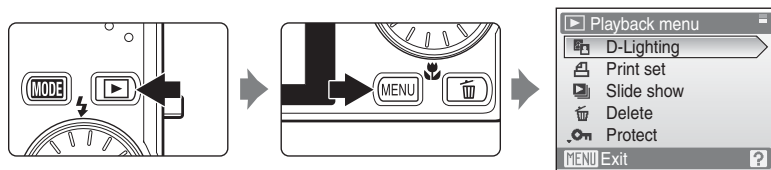
- Use the rotary multi selector to choose and apply settings. (⏩ 9)
- To exit the playback menu, press the **MENU** button.

Selecting Pictures

The picture selection screen, as shown at right, will be displayed with the following menus:

- **Playback menu**: **P**rint set (⏩ 81)

  Delete>**Erase selected images** (⏩ 99)

  Protect (⏩ 99)

  Rotate image (⏩ 100)

  Copy>**Selected images** (⏩ 101)

- **Setup menu**: **W**elcome screen (⏩ 104)

Follow the procedure described below to select pictures.

1 Rotate the rotary multi selector, or press ◀ or ▶, to choose the desired picture.

Only one picture can be selected for **Rotate image** and **Welcome screen**. Proceed to step 3.

Press the **T** (🔍) button to switch to full-frame playback.

Press the **W** (🔳) button to switch back to thumbnail display.

2 Press ▲ or ▼ to select **ON** or **OFF** (or the number of copies).

When **ON** is selected, a check mark (✓) is displayed in the current picture. Repeat steps 1 and 2 to select additional pictures.

3 Press the 🆗 button to finalize picture selection.

Shooting, Playback, and Setup Menus

Slide Show

Play back pictures, stored in the internal memory or on a memory card, one by one in an automated "slide show".

1 Use the rotary multi selector to choose **Start** and press the 🆗 button.

To change the interval between pictures, choose **Frame intvl**, select the desired interval time, and press the 🆗 button before choosing **Start**.

To repeat the slide show automatically, enable **Loop** and press the 🆗 button before choosing **Start**. The check mark (✔) will be added to the loop option when enabled.

> Slide show
>
> Pause: 🆗
>
> **Start**
> Frame intvl
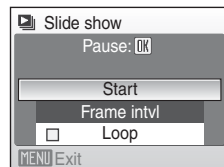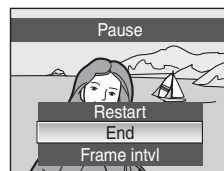> ☐ Loop
>
> MENU Exit

2 The slide show begins.

While the slide show is in progress, the following operations can be performed:

- Press the rotary multi selector ▶ to view pictures in the order recorded, or ◀ to view pictures in reverse order. Press and hold ▶ to fast forward, or ◀ to rewind.
- Press the 🆗 button to pause the slide show.

3 Choose **End** or **Restart**.

When the slide show ends or is paused, choose **End** and press the 🆗 button to return to the playback menu, or choose **Restart** to play the slide show again.

> Pause
>
> Restart
> End
> Frame intvl

B Notes on Slide Show

- Movies are not included in slide shows.
- Slide shows play for a maximum of 30 minutes, even when **Loop** is selected (🔊 113).

Shooting, Playback, and Setup Menus

Delete

Delete selected pictures or all pictures.

Erase selected images

Delete selected pictures (🔊 97).

Erase all images

Delete all pictures.

C Notes on Deletion

- Once deleted, pictures cannot be recovered. Transfer important images to a computer before deletion.
- Pictures marked with the 🔊 icon are protected and cannot be deleted.

C Deleting Picture Bank Images (For Users of the COOLPIX S610c)

Select the **Picture Bank images** option (## of the *Wireless LAN Connection Guide*) from the **Delete** item in list by date menu to delete only those pictures, taken on the specified date, that have already been uploaded to the my Picturetown server.

Protect

Protect selected pictures from accidental deletion (Selecting Pictures → 🔊 97).

Note, however, that formatting the camera's internal memory or the memory card will permanently erase protected files (🔊 113).

Protected pictures are recognized by the 🔊 icon (🔊 7, 51) in playback mode.

Shooting, Playback, and Setup Menus

f Rotate Image

Change the orientation of pictures played back in the camera's monitor after shooting.

Pictures can be rotated 90° clockwise or counterclockwise. Pictures that were recorded in the portrait (vertical) orientation can be rotated up to 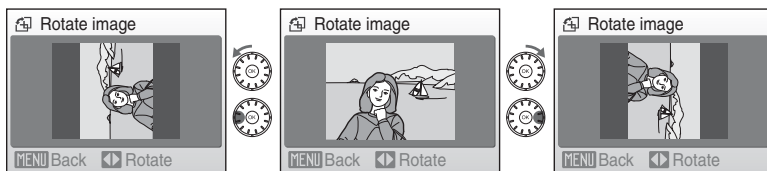180° in either direction. Select a picture in the picture selection screen (c 97), and press the k button to display the **Rotate image** screen.

Press the rotary multi selector J or K to rotate the picture 90°.

Rotate 90° counterclockwise   Rotate 90° clockwise

Press the k button to set the orientation displayed, and save the orientation data with the picture.

h Copy

Copy pictures between the internal memory and a memory card.

1 Use the rotary multi selector to select an option from the copy screen and press the k button.
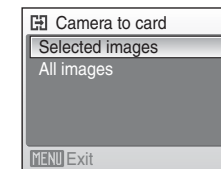
q R p: Copy pictures from internal memory to memory card.

p R q: Copy pictures from memory card to internal memory.
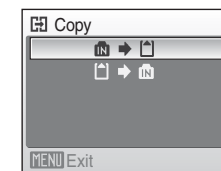
2 Select a copy option and press the k button.

Selected images: Copy pictures selected from the picture selection screen (c 97).

All images: Copy all pictures.

B Notes on Copying Pictures

- JPEG-, AVI-, and WAV-format files can be copied. Files recorded in any other format cannot be copied.
- If voice memos (c 57) are attached to pictures selected for copying, voice memos are copied with the pictures.
- Sound files recorded in voice recording mode (c 65) can be copied using the **Copy sound files** option (c 69) in audio playback mode.
- Pictures recorded with another make or model of camera or that have been modified on a computer cannot be copied.
- Edited copies have the same protection marking (c 99) as the original, but are not marked for printing (c 81).

C Memory contains no images. Message

If there are no pictures stored on the memory card when playback mode is applied, the message, **Memory contains no images.**, will be displayed. Press the d button to display the copy option screen, and copy the pictures stored in the camera's internal memory to the memory card.

D More Information

See "Image/Sound File and Folder Names" (c 118) for more information.

Basic Camera Setup: The Setup Menu

The setup menu contains the following options.

🖩	**Menus**	📖 103
	Choose how menus are displayed.	
🖵	**Welcome screen**	📖 104
	Select screen displayed when camera is turned on.	
🕘	**Date**	📖 105
	Set camera clock and choose home and destination time zones.	
🔲	**Monitor settings**	📖 108
	Adjust monitor brightness and choose display style.	
DATE	**Date imprint**	📖 109
	Imprint date or date counter on pictures.	
VR	**Vibration reduction**	📖 110
	Choose whether or not vibration reduction is enabled.	
🏃	**Motion detection**	📖 111
	Increase the shutter speed and adjust the motion detection settings for shooting.	
⊟▷	**AF assist**	📖 111
	Enable or disable AF assist illumination.	
🔳	**Digital zoom**	📖 112
	Enable or disable digital zoom.	
🔊	**Sound settings**	📖 112
	Adjust sound settings.	
🕘	**Auto off**	📖 113
	Set time before camera enters standby mode.	
🗒/🗄	**Format memory/Format card**	📖 113
	Format internal memory or memory card.	
🞉	**Language**	📖 114
	Choose language used for camera monitor display.	
🖼	**Video mode**	📖 114
	Adjust settings necessary for connection to TV.	
C	**Reset all**	📖 114
	Restore camera settings to default values.	
📶	**Wireless settings (COOLPIX S610c only)**	
	Adjust settings for wireless LAN features. See the *Wireless LAN Connection Guide* for more information.	
Ver.	**Firmware version**	📖 116
	Display camera firmware version.	

Shooting, Playback, and Setup Menus

102

Basic Camera Setup: The Setup Menu

Displaying the Setup Menu

First, display the shooting-mode or playback-mode selection menu by pressing the �🔲🔲🔲 button. Then select 🔧 (use the rotary multi selector), press the 🆗 button.
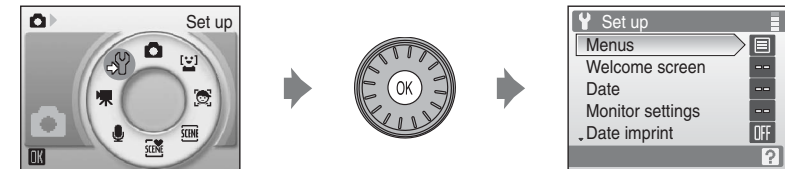
- Use the rotary multi selector to choose and apply settings. (📖 9)
- To exit the setup menu, press the 🔲🔲🔲🔲 button and choose any mode other than setup mode.

🖩 Menus

Select a format for menu display.

Text (default setting)

Menus are displayed in list format.
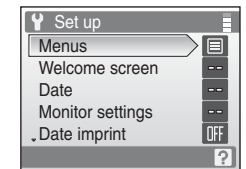
Icons

All menu items can be displayed in a single page.

Menu names   Menu names

COOLPIX S610   **COOLPIX S610c**

Shooting, Playback, and Setup Menus

103
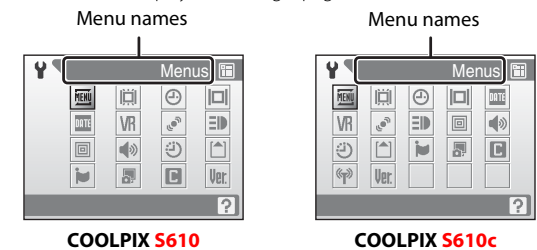
⬜ Welcome Screen

You can select the welcome screen to be displayed when the camera is turned on.

None (default setting)

Welcome screen is not displayed.

COOLPIX

Displays a welcome screen.

Select an image

Select a picture in the internal memory or on the memory card for the welcome screen. Choose a picture in the picture selection screen (🐾 97), and press the 🆗 button.
As the selected image is stored in the camera, the image will appear in the welcome screen even if the original picture is deleted.
Pictures taken at an image mode setting (🐾 84) of 🄰 **16:9 (3584)** or 🄱 **16:9 (1920)**, and copies created at a size of 320 × 240 or smaller using the crop (🐾 55) or small picture (🐾 56) function, cannot be used.

⏰ Date

Set the camera clock and choose home and travel destination time zones.

Date

Set camera clock to current date and time.
See step 5 and 6 of the section, "Setting Display Language, Date, and Time" (🐾 19) for more information.

Time zone

🏠 (home time zone) can be specified and daylight saving enabled or disabled from **Time zone** options. When ✈ (destination time zone) is selected, the time difference (🐾 107) is automatically calculated and the date and time in the selected region are recorded. Useful when travelling.

Setting Travel Destination Time Zone

1 Use the rotary multi selector to choose **Time zone** and press the 🆗 button.

The time zone menu is displayed.

⏰ Date

15/11/2008 15:30
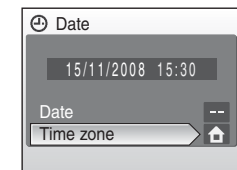
Date --

Time zone 🏠

2 Choose ✈ **Travel destination** and press the 🆗 button.

The date and time displayed on the monitor changes according to the region currently selected.

⏰ Time zone

15/11/2008 15:30

London,Casablanca

◉ 🏠 Home time zone

◎ ✈ Travel destination

🆗:✈
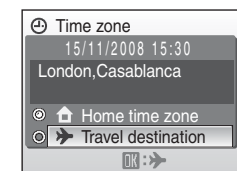
3 Press ▶.

The time zone selection screen is displayed.

✈ 0:30   00:00

Tokyo
Seoul

◀   ▶

MENU Back   ⬇:☼
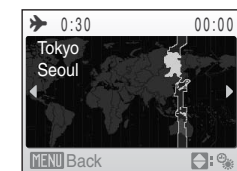
4 Press ◀ or ▶ to choose the travel destination time zone.

If daylight saving time is in effect, press ▲ to display 🌼 at the top of the monitor. The daylight saving time option is enabled and the time is advanced one hour.

To turn off the daylight saving time option, press ▼.

Press the 🆗 button to choose the travel destination time zone.

While the travel destination time zone is selected, the ✈ icon will be displayed in the monitor when the camera is in shooting mode.

```
✈ 10:30           –14:00
EST:
New York
◀ Toronto         ▶
Lima
MENU Back          ▲▼:🌼
```
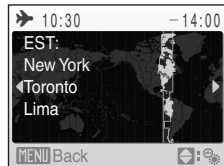
✔ The Clock Battery

The clock battery charges when the main battery is installed or an AC adapter (available separately from Nikon) is connected, and can provide several days of backup power after about 10 hours of charging.

🖉 ⌂ (Home Time Zone)

- To switch to the home time zone, choose ⌂ **Home time zone** in step 2 and press the 🆗 button.
- To change the home time zone, choose ⌂ **Home time zone** in step 2 and perform step 3 and 4, to set the home time zone.

🖉 Daylight Saving Time

When daylight saving time starts or ends, turn the daylight saving time option on or off from the time zone selection screen displayed in step 4.

🖉 Time Zones (📷 18)

The camera supports the time zones listed below. For time differences not listed below, set the camera clock to local time.

UTC +/–	Location	UTC +/–	Location
–11	Midway, Samoa	+1	Madrid, Paris, Berlin
–10	Hawaii, Tahiti	+2	Athens, Helsinki, Ankara
–9	Alaska, Anchorage	+3	Moscow, Nairobi, Riyadh, Kuwait, Manama
–8	PST (PDT): Los Angeles, Seattle, Vancouver	+4	Abu Dhabi, Dubai
–7	MST (MDT): Denver, Phoenix, La Paz	+5	Islamabad, Karachi
–6	CST (CDT): Chicago, Houston, Mexico City	+5.5	New Delhi
–5	EST (EDT): New York, Toronto, Lima	+6	Colombo, Dhaka
–4	Caracas, Manaus	+7	Bangkok, Jakarta
–3	Buenos Aires, São Paulo	+8	Beijing, Hong Kong, Singapore
–2	Fernando de Noronha	+9	Tokyo, Seoul
–1	Azores	+10	Sydney, Guam
±0	London, Casablanca	+11	New Caledonia
		+12	Auckland, Fiji

⬜ Monitor Settings

Choose whether or not to display information in the monitor, and set the monitor brightness.

Photo info

Choose information displayed in monitor during shooting and playback mode.

Brightness
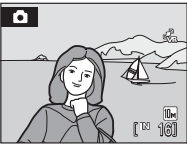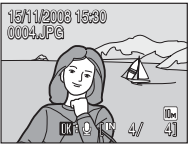
Choose from five settings for monitor brightness. The default setting is **3**.
When monitor brightness boost (✍ 23) is activated, the monitor brightness is set to **5** and cannot be changed.

Photo Info

The following display options are available.
See "The Monitor" (✍ 6) for information on indicators in the monitor.

	Shooting mode	Playback mode
Show info		15/11/2008 15:30 0004.JPG
Auto info (default setting)	The current settings or operation guide is displayed for five seconds as in **Show info** above. After a few seconds, display will be the same as **Hide info**.	
Hide info		

Shooting, Playback, and Setup Menus

📅 Date Imprint

Date and time of recording can be imprinted on pictures. This information can be printed even from printers that do not support printing of date and time (✍ 82).

Off (default setting)

Date and time are not imprinted on pictures.

Date

Date is imprinted on the bottom right corner of pictures taken while this option is in effect.

Date and time

Date and time are imprinted on the bottom right corner of pictures taken while this option is in effect.

At settings other than **Off**, the icon for the current setting is displayed in the monitor (✍ 6).

🔒 Date Imprint

- Imprinted dates form a permanent part of image data and cannot be deleted.
- Dates imprinted at an image mode setting (✍ 84) of ⬛ **TV screen (640)** may be difficult to read. Choose ⬛ **PC screen (1024)** or larger when using date imprint.
- The date is recorded using the format selected in the setup menu's **Date** item (✍ 18, 105).
- The date is not imprinted on movies or on pictures taken in **Panorama assist** scene mode (✍ 41).

✐ Date Imprint and Print Set

When printing from DPOF-compatible printers which support printing of shooting date and photo information, the date and information can be printed on pictures without date and time imprinted on them, using options in the **Print set** menu (✍ 81).

Shooting, Playback, and Setup Menus

g Vibration Reduction

Vibration reduction effectively corrects blur, caused by slight hand movement known as camera shake, that commonly occurs when shooting with zoom applied or at slow shutter speeds. Vibration reduction can be used in all shooting modes.

Set **Vibration reduction** to **Off** when using a tripod to stabilize the camera during shooting.

When vibration reduction is enabled, the current setting is displayed during shooting (when **Off** is selected, an icon for the current setting is not displayed) (A 6, 23).

On (default setting)

Vibration reduction is enabled when taking pictures and recording movies. Camera detects and factors out panning movements when reducing camera shake. When camera is panned horizontally, for example, vibration reduction reduces only vertical shake. If camera is panned vertically, vibration reduction affects only horizontal shake.

Off

Vibration reduction is not enabled.

B Notes on Vibration Reduction

- Vibration reduction may take a few seconds to activate after the power is turned on, or the camera enters shooting mode from playback mode. Wait until the display stabilizes before shooting.
- Due to characteristics of the vibration reduction function, images displayed in the camera's monitor immediately after shooting may appear blurry.
- Vibration reduction may be unable to completely eliminate the effects of camera shake in some situations.
- **VR** stands for vibration reduction.

Shooting, Playback, and Setup Menus

U Motion Detection

Enable motion detection which automatically increases the shutter speed in shooting still pictures to reduce the camera shake and subject movement.

When motion detection is enabled, the current setting is displayed in the monitor during shooting (when **Off** is selected, an icon for the current setting is not displayed) (A 6, 23).

Auto (default setting)

When camera detects the movement of the subject or camera shake, the shutter speed will be increased for reducing the shake.
When the shooting mode is set to the **Fireworks show** (A 40) scene mode, the motion detection is set to **Off**.

Off

Motion detection is not enabled.

B Notes on Motion Detection

- Motion detection does not function if the flash fires, or if the subject is moving or is too dark.
- Motion detection may be unable to completely reduce the camera shake and subject movement in some situations.
- The pictures taken may become somewhat grainy.

c AF Assist

Enable or disable AF-assist illumination.

Auto (default setting)

AF-assist illumination will be used to assist the focus operation when the subject is poorly lit. The illuminator has a range of about # m (# ft.) at the maximum wide-angle position and about # m (# ft. # in.) at the maximum telescopic position. Note that for some scene modes, AF-assist illumination turns off automatically (A 36).

Off

Disable this function. The camera may be unable to focus if lighting is poor.

D Notes on AF-Assist Illumination

AF-assist illumination is disabled in the **Landscape**, **Sports**, **Night portrait**, **Sunset**, **Dusk/dawn**, **Museum**, and **Fireworks show** scene modes.

Shooting, Playback, and Setup Menus

▣ Digital Zoom

Enable or disable digital zoom.

On (default setting)

When the camera is zoomed in to the maximum optical zoom position, holding down the **T** (**Q**) button triggers digital zoom (🖪 25).

Off

Digital zoom will not be activated (except when shooting a movie).

✔ Notes on Digital Zoom

- When digital zoom is in effect, **AF area mode** is set to **Center** (🖪 91).
- Digital zoom cannot be used in the following situations.
  - When **Portrait** or **Night portrait** is selected in scene mode
  - When scene auto selector mode is selected
  - When active child mode is selected
  - When smile mode is selected
  - Before movie recording begins (however, digital zoom of up to 2× can be applied while movies are being recorded).
- When digital zoom is in effect, **Metering** is set to **Center-weighted**.

◀ Sound Settings

Adjust the following sound settings.

Button sound

Turn button sound **On** (default setting) or **Off**. When **On** (default setting) is selected, beep will sound once when operations are completed successfully, twice when the camera acquires focus on the subject, and three times when error is detected. Start-up sound will also play when the camera is turned on.

Shutter sound

Choose shutter sound from **On** (default setting) or **Off**.

Shooting, Playback, and Setup Menus

⏱ Auto Off

If no operations are performed for the selected length of time, the monitor will turn off and the camera enters standby mode (🖪 15) to reduce drain on the batteries. The power-on lamp blinks in standby mode. If no operations are performed for another three minutes, the camera will turn off automatically.

Choose the time allowed to elapse before the camera enters standby mode if no operations are performed from **30 s**, **1 min** (default setting), **5 min**, and **30 min**.

✎ Canceling Standby Mode

Cancel standby mode and reactivate the monitor by pressing the power switch or the shutter-release button.

✎ Notes on Auto Off

Regardless of the option selected, the monitor will remain on as follows.
- When **30 s** or **1 min** is selected for **Auto off** and menus are displayed: three minutes
- During slide show playback: up to 30 minutes
- When no smiling face is detected in smile mode: five minutes (30 minutes when **Auto off** is set to **30 min**)
- When the AC adapter is connected: 30 minutes

🖳 Format Memory/🗂 Format Card

Use this option to format the internal memory or a memory card.

Formatting the Internal Memory

To format the internal memory, remove the memory card from the camera.

The **Format memory** option appears in the setup menu.
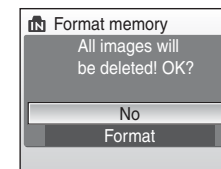
Formatting a Memory Card

When the memory card is inserted in the camera, the **Format card** option appears in the setup menu.
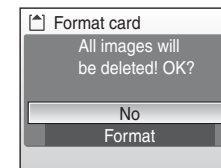
✔ Formatting Internal Memory and Memory Cards

- Formatting the internal memory or memory cards permanently deletes all data. Be sure to transfer important pictures to a computer before formatting.
- Do not turn the camera off, disconnect the AC adapter, or open the battery-chamber/memory card slot cover during formatting.
- The first time you insert the memory cards used in other devices into this camera, be sure to format them with this camera.

🖳 Format memory
All images will be deleted! OK?
No
Format

🗂 Format card
All images will be deleted! OK?
No
Format

Shooting, Playback, and Setup Menus

⬛ Language

Choose one of 24 languages for display of camera menus and messages.

Čeština	Czech	**Polski**	Polish
Dansk	Danish	**Português**	Portuguese
Deutsch	German	**Русский**	Russian
English	(default setting)	**Suomi**	Finnish
Español	Spanish	**Svenska**	Swedish
Ελληνικά	Greek	**Türkçe**	Turkish
Français	French	عربي	Arabic
Indonesia	Indonesian	中文简体	Simplified Chinese
Italiano	Italian	中文繁體	Traditional Chinese
Magyar	Hungarian	日本語	Japanese
Nederlands	Dutch	한글	Korean
Norsk	Norwegian	ภาษาไทย	Thai

⬛ Video Mode

Adjust settings for connection to TV.

Choose from **NTSC** and **PAL**.

⬛ Reset All

When **Reset** is selected, the camera's settings will be restored to their default values.

Pop-up menu

Option	Default value
Flash mode (⬛ 30)	Auto
Self-timer (⬛ 32)	Off
Macro mode (⬛ 33)	Off
Exposure compensation (⬛ 34)	0.0

114

Scene mode

Option	Default value
Scene mode (⬛ 35)	Portrait
White balance in Food mode (⬛ 41)	Center

Movie menu

Option	Default value
Movie options (⬛ 62)	TV movie 640
Autofocus mode (⬛ 63)	Single AF

Shooting menu

Option	Default value
Image mode (⬛ 84)	Normal (3648)
White balance (⬛ 86)	Auto
Metering (⬛ 88)	Matrix
Continuous (⬛ 89)	Single
ISO sensitivity (⬛ 90)	Auto
Color options (⬛ 90)	Standard color
AF area mode (⬛ 91)	Auto
Autofocus mode (⬛ 94)	Single AF

Setup menu

Option	Default value
Menus (⬛ 103)	Text
Welcome screen (⬛ 104)	None
Photo info (⬛ 108)	Auto info
Brightness (⬛ 108)	3
Date imprint (⬛ 109)	Off
Vibration reduction (⬛ 110)	On
Motion detection (⬛ 111)	Auto
AF assist (⬛ 111)	Auto
Digital zoom (⬛ 112)	On
Button sound (⬛ 112)	On
Shutter sound (⬛ 112)	On
Auto off (⬛ 113)	1 min

115

Basic Camera Setup: The Setup Menu

Others

Option	Default value
Paper size (🕮 77, 78)	Default
Slide show (🕮 98)	3 s
Monitor brightness boost (🕮 23)	Off

- Choosing **Reset all** also clears the current file number (🕮 118) from the memory. Numbering will continue from the lowest number available. To reset file numbering to "0001", delete all pictures (🕮 99) before selecting **Reset all**.
- The following menu settings will remain unaffected when menus are reset with **Reset all**.
  Shooting menu: Preset manual data (🕮 87) acquired for **White balance**
  Setup menu: **Date** (🕮 105), **Language** (🕮 114), and **Video mode** (🕮 114)

Ver. Firmware Version

View the current camera firmware version.

See the *Wireless LAN Connection Guide* for more information on the camera's MAC address displayed with the COOLPIX S610c.

COOLPIX S610

COOLPIX S610 Ver. 1.0

◀ Back   Nikon

Firmware version

COOLPIX S610c

COOLPIX S610c Ver. 1.0
MAC address
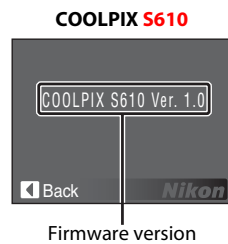xx-xx-xx-xx-xx-xx

◀ Back   Nikon

MAC address

Firmware version

Shooting, Playback, and Setup Menus

116
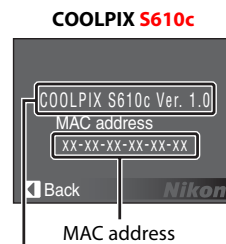
Technical Notes

Optional Accessories

Rechargeable battery	Rechargeable Li-ion Battery EN-EL12
Battery charger	Battery Charger MH-65
AC adapter	AC Adapter EH-63
USB cable	USB Cable UC-E13
A/V Cable	Audio/Video Cable EG-CP15

Approved Memory Cards

The following memory cards have been tested and approved for use in this camera. All cards of the designated make and capacity can be used, regardless of speed.

SanDisk	128 MB, 256 MB, 512 MB, 1 GB, 2 GB[1], 4 GB[2], 8 GB[2]
Toshiba	128 MB, 256 MB, 512 MB, 1 GB, 2 GB[1], 4 GB[2], 8 GB[2]
Panasonic	128 MB, 256 MB, 512 MB, 1 GB, 2 GB[1], 4 GB[2], 8 GB[2]

[1] If the memory card will be used with a card reader or similar device, check that device supports 2 GB cards.
[2] SDHC-compliant. If the memory card will be used with a card reader or similar device, check that device supports SDHC.

Operation is not guaranteed with other makes of card. Contact the manufacturer for details on the above cards.

Technical Notes

117

Image/Sound File and Folder Names

Pictures, movies, voice memos, and voice recordings are assigned file names as follows.

DSCN0001.JPG

Identifier
(not shown on camera monitor)

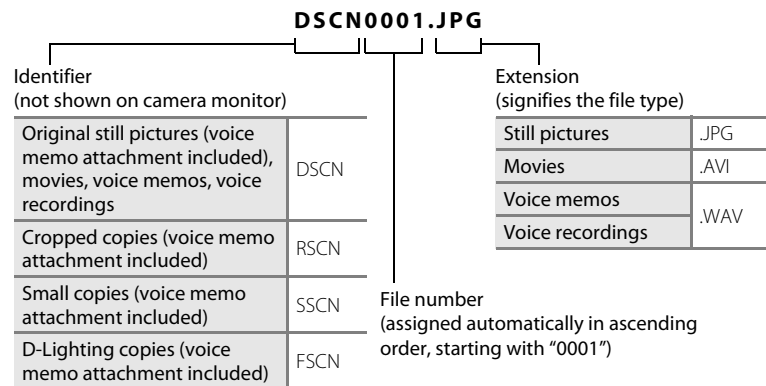|	
Original still pictures (voice memo attachment included), movies, voice memos, voice recordings	DSCN
Cropped copies (voice memo attachment included)	RSCN
Small copies (voice memo attachment included)	SSCN
D-Lighting copies (voice memo attachment included)	FSCN

Extension
(signifies the file type)

Still pictures	.JPG
Movies	.AVI
Voice memos	.WAV
Voice recordings	

File number
(assigned automatically in ascending order, starting with "0001")

- Files are stored in folders named with a folder number followed by a five-character identifier: "SOUND" (normal quality sound) for voice recordings (e.g., "101SOUND"; 🎵 65), and "NIKON" for all other pictures (e.g., "100NIKON"). When the number of files within a folder reaches 9999, a new folder will be created. File numbers will be assigned automatically starting with "0001".

- Voice memo file names have the same identifier and file number as the picture to which the voice memo is attached.

- Files copied using **Copy**>**Selected images** or **Copy sound files**>**Selected files** are copied to the current folder, where they are assigned new file numbers in ascending order starting from the largest file number in memory. **Copy**>**All images** and **Copy sound files**>**Copy all files** copy all folders from the source medium; file names do not change but new folder numbers are assigned in ascending order starting from the largest folder number on the destination medium (🎵 69, 101).

- A single folder can hold up to 200 pictures; if the current folder already contains 200 pictures, a new folder, named by adding one to the current folder name, will be created the next time a picture is taken. If the current folder is numbered 999 and contains 200 pictures, or a picture is numbered 9999, no further pictures can be taken until the internal memory or memory card is formatted (🎵 113), or a new memory card is inserted.

Technical Notes

Caring for the Camera

To ensure continued enjoyment of this Nikon product, observe the following precautions when using or storing the device.

☑ Keep Dry

The device will be damaged if immersed in water or subjected to high humidity.

☑ Do Not Drop

The product may malfunction if subjected to strong shock or vibration.

☑ Handle the Lens and all Moving Parts with Care

Do not apply force to the lens, lens cover, monitor, memory card slot or battery chamber. These parts are easily damaged. Applying force to the lens cover could result in camera malfunction or damage to the lens. Should the monitor break, care should be taken to avoid injury caused by broken glass and to prevent the liquid crystal from the display touching the skin or entering the eyes or mouth.

☑ Do Not Point the Lens at Strong Light Sources for Extended Periods

Avoid pointing the lens at the sun or other strong light sources for extended periods when using or storing the camera. Intense light may cause deterioration of the CCD image sensor, producing a white blur effect in photographs.

☑ Keep Away from Strong Magnetic Fields

Do not use or store this device in the vicinity of equipment that generates strong electromagnetic radiation or magnetic fields. Strong static charges or the magnetic fields produced by equipment such as radio transmitters could interfere with the monitor, damage data stored on the memory card, or affect the product's internal circuitry.

☑ Avoid Sudden Changes in Temperature

Sudden changes in temperature, such as when entering or leaving a heated building on a cold day, can cause condensation to form inside the device. To prevent condensation, place the device in a carrying case or a plastic bag before exposing it to sudden changes in temperature.

☑ Turn the Product Off Before Removing or Disconnecting the Power Source

Do not remove the battery while the product is on, or while images are being recorded or deleted. Forcibly cutting power in these circumstances could result in loss of data or in damage to product memory or internal circuitry.

Technical Notes

✐ The Battery

- Check the battery level when taking the camera out, and charge the battery if necessary (A 12, 16). Do not continue charging once the battery is fully charged, as this will result in reduced battery performance. If possible, carry a fully-charged spare battery when taking pictures on important occasions.

- Do not use the battery at ambient temperatures below 0 ℃ (32 °F) or above 40 ℃ (104 °F). When recharging, the ambient temperature should be in the vicinity of 5 to 35 ℃ (41 to 95 °F). The battery will not charge if its temperature is below 0 ℃ (32 °F) or above 60 ℃ (140 °F). Charge capacity may be reduced at battery temperatures from 0 ℃ to 15 ℃ (32 °F to 59 °F) and from 45 ℃ to 60 ℃ (113 °F to 140 °F). Note that the battery may become hot during use; wait for the battery to cool before charging. Failure to observe these precautions could damage the battery, impair its performance or prevent it from charging normally.

- On cold days, the capacity of batteries tends to decrease. Be sure that the battery is fully charged before heading outside to take pictures in cold weather. Keep spare batteries in a warm place and exchange as necessary. Once warmed, a cold battery may recover some of its charge.

- Dirt on the battery terminals can prevent the camera from functioning. Should the battery terminals become dirty, wipe them off with a clean, dry cloth before use.

- When the battery is not in use, remove it from the camera or battery charger and replace the terminal cover. The camera and battery charger draw minute amounts of current even when off; if left in place, the battery could be drained to the point that it no longer functions. Turning the camera on or off while the battery is exhausted can result in reduced battery life. Recharging an exhausted battery within six months is recommended.
If the battery will not be used for an extended period, store it in a cool (15 to 25 ℃ / 59 to 77 °F), dry place. Recharge it at least once every six months and run it flat before returning it to storage.

- Replace the battery when it no longer holds a charge. Used batteries are a valuable resource. Please recycle used batteries in accordance with local regulations.

Technical Notes

Cleaning

Lens	Avoid touching glass parts with your fingers. Remove dust or lint with a blower (typically a small device with a rubber bulb attached to one end that is pumped to produce a stream of air out the other end). To remove fingerprints or other stains that cannot be removed with a blower, wipe the lens with a soft cloth, using a spiral motion that starts at the center of the lens and working toward the edges. If this fails, clean the lens using a cloth lightly dampened with commercial lens cleaner.
Monitor	Remove dust or lint with a blower. To remove fingerprints and other stains, clean the monitor with a soft, dry cloth, being careful not to apply pressure.
Body	Use a blower to remove dust, dirt or sand then wipe gently with a soft, dry cloth. After using the camera at the beach or seaside, wipe off any sand or salt with a dry cloth lightly dampened with fresh water, then dry thoroughly. Note that foreign matter inside the camera could cause damage not covered by the warranty.

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

Storage

Turn the camera off when not in use. Check that the power-on lamp is off before putting the camera away. Remove the battery if the camera will not be used for an extended period. Do not store the camera with naptha or camphor moth balls, or in any of the following locations:

- Next to equipment that produces strong electromagnetic fields, such as televisions or radios
- Exposed to temperatures below −10 ℃ (14 °F) or above 50 ℃ (122 °F)
- Poorly ventilated or subject to humidities of over 60 %

To prevent mold or mildew, take the camera out of storage at least once a month. Turn the camera on and release the shutter a few times before putting the camera away again.

✐ Notes on the Monitor

- The monitor may contain a few pixels that are always lit or that do not light. This is a characteristic common to all TFT LCD displays, and does not indicate a malfunction. Images recorded using the product will not be affected.

- When framing bright subjects, vertical comet-like streaks that whiten toward either end may appear in the display. This phenomenon, known as "smear," does not appear in the final photograph and does not indicate a malfunction. Some smear may appear in movies.

- Images in the monitor may be difficult to see under bright lighting.

- The monitor is lit by an LED backlight. Should the monitor begin to dim or flicker, contact your Nikon-authorized service representative.

Technical Notes

Error Messages

The following table lists the error messages and other warnings displayed in the monitor, as well as the solutions for dealing with them.

For Users of the COOLPIX S610c

See the *Wireless LAN Connection Guide* for error messages that may be displayed with use of the wireless LAN feature.

Display	Problem	Solution	⏱
⊙ (blinks)	Clock not set.	Set clock.	105
▱	Battery running low.	Prepare to charge or change battery.	12, 16
ⓘ Battery exhausted.	Battery exhausted.	Charge or change battery.	12, 16
⚠ Battery temperature high	Battery temperature is high.	Turn off camera, and allow battery to cool down before resuming use. After five seconds, this message will disappear, the monitor will turn off, and the power-on lamp will blink rapidly. After the lamp blinks for three minutes, the camera will turn off automatically, but you can also press the power switch to turn it off manually.	15
AF● (● blinks red)	Camera cannot focus.	Refocus.	26, 27
⚠ Please wait for the camera to finish recording. ⏳	Camera cannot perform other operations until recording is complete.	Wait until message clears from display automatically when recording is complete.	27
ⓘ Memory card is write protected.	Write-protect switch is in "lock" position.	Slide write-protect to "write" position.	21

Technical Notes

Error Messages

Display	Problem	Solution	⏱
⚠ This card cannot be used. ⚠ This card cannot be read.	Error accessing memory card.	• Use approved card. • Check that connectors are clean. • Confirm that memory card is correctly inserted.	117 20 20
⚠ Card is not formatted. Format card? No Yes	Memory card has not been formatted for use in this camera.	Choose **Yes** and press ⓞⓚ to format card, or turn camera off and replace card.	21
ⓘ Out of memory.	Memory card is full.	• Choose smaller image size. • Delete pictures or sound files. • Insert new memory card. • Remove memory card and use internal memory.	84 28, 64, 68 20 21
⚠ Image cannot be saved.	Error occurred while recording picture.	Format internal memory or memory card.	113
	Camera has run out of file numbers.	• Insert new memory card. • Format internal memory or memory card.	20 113
	Picture cannot be used for welcome screen.	Choose a picture taken at any image mode setting other than 🖼 **16:9 (3584)** and 🖼 **16:9 (1920)**, or a small picture or cropped copy of 640×480 pixels of larger.	55, 56, 84
	Cannot copy picture.	Delete pictures from destination.	99
⚠ Sound file cannot be saved.	Camera has run out of file numbers.	• Insert new memory card. • Format internal memory or memory card.	20 113

Technical Notes

Error Messages

Display	Problem	Solution	🖨
ⓘ Image cannot be modified.	Cannot edit selected picture.	• Select picture that supports D-Lighting, crop, or small picture.	53
		• Movies cannot be edited.	–
ⓘ Cannot record movie.	Time out error while recording movie.	Choose memory card with faster write speed.	117
ⓘ Memory contains no images.	• No pictures or sound file in the internal memory or memory card.	–	–
ⓘ No sound file.	• Memory card does not contain pictures or sound file.	To copy picture or sound file from internal memory to memory card, press the **MENU** button. The copy option screen or copy sound file screen will be displayed.	101, 69
ⓘ File contains no image data.	File not created with this camera.	View file on computer or other device.	
◎ This file cannot be played back.			–
ⓘ All images are hidden.	Date and time are not set for pictures to be displayed by list by date mode.	–	–
ⓘ This image cannot be deleted.	Picture is protected.	Disable protection.	99
ⓘ Travel destination is in the current time zone.	Destination in same time zone as home.	–	107
Lens error ❶	Lens error.	Turn camera off and then on again. If error persists, contact retailer or Nikon representative.	22
◎ Communications error	USB cable disconnected during printing.	Turn camera off and reconnect cable.	76

Technical Notes

Error Messages

Display	Problem	Solution	🖨
System error ❶	Error has occurred in camera's internal circuitry.	Turn camera off, remove and reinsert battery, and turn camera on. If error persists, contact retailer or Nikon representative.	14, 22
◎✿ Printer error: Check printer status.	Running out of ink or printer error.	Check printer. After checking the ink or solving the problem, select **Resume** and press the ⓚ button to resume printing.*	–
◎✿ Printer error: check paper	Specified size of paper is not loaded in printer.	Load the specified paper, select **Resume**, and press the ⓚ button to resume printing.*	–
◎✿ Printer error: paper jam	Paper has jammed in the printer.	Eject the jammed paper, select **Resume**, and press the ⓚ button to resume printing.*	–
◎✿ Printer error: out of paper	No paper is loaded in printer.	Load the specified paper, select **Resume**, and press the ⓚ button to resume printing.*	–
◎✿ Printer error: check ink	Ink error.	Check ink, select **Resume**, and press the ⓚ button to resume printing.*	–
◎✿ Printer error: out of ink	Ink cartridge is empty.	Replace ink, select **Resume**, and press the ⓚ button to resume printing.*	–
◎✿ Printer error: file corrupt	An error caused by the image file has occurred.	Select **Cancel** and press the ⓚ button to cancel printing.	–

* See the documentation provided with your printer for further guidance and information.

Technical Notes

Troubleshooting

If the camera fails to function as expected, check the list of common problems below before consulting your retailer or Nikon representative. Refer to the page numbers in the right-most column for more information.

For Users of the COOLPIX S610c

See the *Wireless LAN Connection Guide* for information on troubleshooting wireless LAN problems.

Display, Settings and Power Supply

Problem	Cause/Solution	📷
Monitor is blank	• Camera is off. • Battery is exhausted. • Standby mode for saving power: press the shutter-release button halfway. • When flash lamp blinks red, wait until flash has charged. • Camera and computer are connected via USB cable. • Camera and TV are connected via audio/video cable.	22 22 15, 27 31 71 70
Monitor is hard to read	• Adjust monitor brightness. • Monitor is dirty. Clean monitor. • Monitor has dimmed to save power. Monitor brightens when controls are used. • Use monitor brightness boost.	108 121 15 23
Camera turns off without warning	• Battery is low. • Camera has turned off automatically to save power. • Battery is cold.	22 113 120
Date and time of recording are not correct	• Pictures recorded before clock has been set, and "Date not set" indicator blinks during shooting, will have time stamp of "00/00/0000 00:00"; movies and voice recordings will be dated "01/01/2008 00:00." • Check camera clock regularly against more accurate timepieces and reset as required.	18 105
No indicators displayed in monitor	**Hide info** is selected for **Photo info**. Select **Show info**.	108

| Problem	Cause/Solution	📷
Date imprint not available	Camera clock has not been set.	18, 105
Date not appearing on pictures even when **Date imprint** is enabled	Date does not appear on movies.	61, 109
Camera settings reset	Backup battery is exhausted; all settings were restored to their default values.	106
Monitor turns off, and the power-on lamp blinks rapidly.	Battery temperature is high. Turn off camera, and allow battery to cool down before resuming use. After the lamp blinks for three minutes, the camera will turn off automatically, but you can also press the power switch to turn it off manually.	15

Electronically Controlled Cameras

In extremely rare instances, unusual characters may appear in the monitor and the camera may stop functioning. In most cases, this phenomenon is caused by a strong external static charge. Turn the camera off, remove and replace the battery, and then turn the camera on again. In the event of continued malfunction, contact your retailer or Nikon representative. Note that disconnecting the power source as described above may result in the loss of any data not recorded to internal memory or the memory card at the time the problem occurred. Data already recorded will not be affected.

Shooting

| Problem	Cause/Solution	📷
No picture taken when shutter-release button is pressed	• When camera is in playback mode, press the ▶ button. • When menus are displayed, press the **MENU** button. • Battery is exhausted. • When flash lamp blinks, flash is charging.	28 11 22 31
Camera cannot focus	• The intended subject is one with which autofocus does not perform well. • Set **AF assist** in the setup menu to **Auto**. • Focus error. Turn camera off and then on again.	27 111 15

Troubleshooting

Problem	Cause/Solution	🚫
Pictures are blurred	• Use flash. • Use vibration reduction or motion detection. • Use **BSS**. • Use tripod and self-timer.	30 110, 111 89 32
Bright specks appear in pictures taken with flash	Flash is reflecting off particles in air. Turn flash off.	31
Flash does not fire	• Flash is off. • Some scene modes that cannot turn on flash are selected. • 🎬 mode is selected. • **Continuous** or **BSS** is selected for **Continuous** in shooting menu.	30 35 61 89
Optical zoom cannot be used	Optical zoom cannot be used while recording movies.	61
Digital zoom cannot be used	• **Digital zoom** is set to **Off** in the setup menu. • Digital zoom is not available in the following situations: - when shooting in **Portrait** or **Night portrait** scene mode - when shooting in scene auto selector mode - when shooting in active child mode - when shooting in smile mode - before movie recording begins	112 36, 37 45 47 49 61
No sound when the shutter is released	• **Off** is selected for **Sound settings**>**Shutter sound** in setup menu. • **Continuous** or **BSS** is selected for **Continuous** in shooting menu. • 🏃 (**Sports** scene mode) or 🏛 (**Museum** scene mode) is selected. • 🎬 mode is selected. • The speaker is obstructed.	112 89 36, 39 61 4, 24
AF-assist illuminator does not light	• **Off** is selected for AF assist option in camera setup menu. • AF-assist illuminator turns off automatically in some modes.	111 36-40
Pictures appear smeared	Lens is dirty. Clean lens.	121
Colors are unnatural	White balance does not match light source.	86

Technical Notes

Problem	Cause/Solution	🚫
Randomly spaced bright pixels ("noise") appear in image	Shutter speed too slow. Noise can be reduced by: • Using flash • Specifying a lower ISO sensitivity setting • Using a scene mode which has noise reduction ability	 30 90 36
Pictures are too dark (underexposed)	• Flash is off. • Flash window is blocked. • Subject is beyond flash range. • Adjust exposure compensation. • Raise the ISO sensitivity. • Subject is backlit. Select 📷 (**Backlight** scene mode) or use fill flash.	30 24 30 34 90 30, 40
Pictures are too bright (overexposed)	Adjust exposure compensation.	34
Unexpected results when flash mode is set to 🔆 (auto with red-eye reduction)	When 🔆 (auto with red-eye reduction) or "fill flash with slow sync and red-eye reduction" of the **Night portrait** scene mode is applied during shooting, In-Camera Red-Eye Fix may, in very rare cases, be applied to areas not affected by red-eye. Set a flash mode other than 🔆 (auto with red-eye reduction) when taking pictures in a shooting mode other than the **Night portrait** scene mode.	30, 37

Playback

Problem	Cause/Solution	🚫
File cannot be played back	File has been overwritten or renamed by computer or another make or model of camera.	–
Cannot zoom in on picture	Playback zoom cannot be used with movies, small pictures, or pictures that have been cropped to below 320 × 240.	–
Cannot record voice memo	• Voice memos cannot be appended to movies. • Voice memos cannot be appended to pictures taken by other cameras, and voice memos attached to the images using other cameras cannot be played back.	64 57

Technical Notes

Troubleshooting

Problem	Cause/Solution	📷
Cannot use D-Lighting, crop, or small picture options	• These options cannot be used with movies.	64
	• Choose a picture taken at any image mode setting other than 🖼 **16:9 (3584)** and 🖼 **16:9 (1920)**.	84
	• Select picture that supports D-Lighting, crop, or small picture.	53
	• Pictures taken with another make or model of camera cannot be edited.	53
	• Other cameras may be unable to play back, or transfer to a computer, pictures edited with this camera.	53
Pictures not displayed on television	• Choose correct video mode.	114
	• Memory card contains no pictures. Replace memory card. Remove memory card to play back pictures from internal memory.	20
Nikon Transfer does not start when camera is connected	• Camera is off.	22
	• Battery is exhausted.	22
	• USB cable is not correctly connected.	71
	• If your computer is running Windows 2000 Professional, camera cannot be connected to the computer.	71
	• Camera is not recognized by the computer.	–
	• Computer is not set to launch Nikon Transfer automatically.	–
	For more information on Nikon Transfer, refer to help information contained in Nikon Transfer.	
Pictures to be printed are not displayed	Memory card contains no pictures. Replace memory card. Remove memory card to print pictures from internal memory.	20
Cannot select paper size with camera	Paper size cannot be selected from the camera if the printer does not support the page sizes used by the camera or the printer automatically selects the page size. Use the printer to select page size.	77, 78

Technical Notes

Specifications

Nikon COOLPIX S610/S610c Digital Camera

Type	Compact digital camera
Effective pixels	10.0 million
Image sensor	$^1/_{2.33}$-in. CCD; total pixels: approx. 10.34 million
Lens	4× Zoom-Nikkor lens
Focal length	5-20mm (equivalent with 35mm [135] format picture angle: 28-112mm)
f/-number	f/2.7–5.8
Construction	7 elements in 6 groups
Digital zoom	Up to 4× (equivalent with 35mm [135] format picture angle: approx. 448mm)
Vibration reduction	Lens shift
Autofocus (AF)	Contrast-detect AF
Focus range (from lens)	• [W]: 50 cm (1 ft. 7.6 in.) to ∞ [T]: 60 cm (1 ft. 11.6 in.) to ∞ • Macro mode: 3 cm (1.1 in.) to ∞(when the zoom indicator is before ⬦)
Focus-area selection	Auto (9-area automatic selection), face priority, manual with 99 focus areas, center
Monitor	3.0 in., Approx. 230k-dot, TFT LCD with anti-reflection coating and 5-level brightness adjustment (equipped with monitor brightness boost function)
Frame coverage (shooting mode)	Approx. 100 % horizontal and 100 % vertical
Frame coverage (playback mode)	Approx. 100 % horizontal and 100 % vertical
Storage	
Media	• Internal memory (approx. ## MB) • SD (Secure Digital) memory cards
File system	DCF, Exif 2.2, and DPOF compliant
File formats	Compressed: JPEG-Baseline compliant Movies: AVI Sound files: WAV
Image size (pixels)	• 3,648 × 2,736 **High (3648★)**/**Normal (3648)** • 3,072 × 2,304 **Normal (3072)** • 2,592 × 1,944 **Normal (2592)** • 2,048 × 1,536 **Normal (2048)** • 1,024 × 768 **PC screen (1024)** • 640 × 480 **TV screen (640)** • 3,584 × 2,016 **16:9 (3584)** • 1,920 × 1,080 **16:9 (1920)**
ISO sensitivity (Standard output sensitivity)	ISO 100, 200, 400, 800, 1600, 3200# Auto (auto gain from ISO 100 to 1600#)

Technical Notes

Specifications

Exposure	
Metering	224-segment matrix, center-weighted
Exposure control	Programmed auto exposure with motion detection and exposure compensation (–2.0 to +2.0 EV in steps of $^1/_3$ EV)
Range (ISO 100)	[W]: 1.0 to 15.5 EV [T]: 1.2 to 17.7 EV
Shutter	Mechanical and charge-coupled electronic shutter
Speed	$^1/_{1500}$–1 s, 4 s (**Fireworks show** scene mode)
Aperture	Electronically-controlled ND filter (-2 AV) selection
Range	2 steps (f/2.7 and f/5.8 [W])
Self-timer	Can be selected from 10 and 2 seconds duration
Built-in flash	
Range (approx.) (ISO sensitivity: **Auto**)	[W]: ## to ## m (## in. to ## ft.) [T]: ## to ## m (## in. to ## ft.)
Flash control	TTL auto flash with monitor preflashes
Interface	Hi-Speed USB
Data transfer protocol	MTP, PTP
Video output	Can be selected from NTSC and PAL
I/O terminal	Multi connector
Supported languages	Arabic, Chinese (Simplified and Traditional), Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Indonesian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish, Thai, Turkish
Power sources	• One EN-EL12 Rechargeable Li-ion Battery (supplied) • AC Adapter EH-63
Battery life*	Approx. ## shots (EN-EL12)
Dimensions (W × H × D)	COOLPIX S610: Approx. ## × ## × ## mm (## × ## × ## in.) (excluding projections) COOLPIX S610c: Approx. ## × ## × ## mm (## × ## × ## in.) (excluding projections)
Weight	Approx. ## g (## oz) (without battery and SD memory card)
Operating environment	
Temperature	0 to 40 °C (32 to 104 °F)
Humidity	Less than 85 % (no condensation)

Technical Notes

132

Specifications

Wireless (COOLPIX S610c only)	
Standards	IEEE 802.11b/g (standard wireless LAN protocol), ARIB STD-T66 (standard for low power data communications systems)
Communications protocols	IEEE 802.11g: OFDM IEEE 802.11b: DSSS
Range (line of sight)	Approx. 50 m (98 ft.) (varies with location and weather)
Operating frequency	2412–2462 MHz (11 channels)
Data rates	IEEE 802.11g: 6, 9, 12, 18, 24, 36, 48, and 54 Mbps IEEE 802.11b: 1, 2, 5.5, and 11 Mbps
Security	TKIP, 128/64-bit (104/40-bit) WEP, AES
Access protocols	Infrastructure

- Unless otherwise stated, all figures are for a camera with a fully-charged Rechargeable Li-ion Battery EN-EL12 operated at an ambient temperature of 25 °C (77 °F).

* Based on Camera and Imaging Products Association (CIPA) standards for measuring the life of camera batteries. Measured at 23 °C (73 °F); zoom adjusted with each shot, flash fired with every other shot, image mode set to 🖼 **Normal (3648)**.
Battery life may vary depending on shooting interval and length of time menus and images are displayed.

Rechargeable Li-ion Battery EN-EL12

Type	Rechargeable lithium-ion battery
Rated capacity	DC 3.7 V, 1050 mAh
Operating temperature	0 to 40 °C (32 to 104 °F)
Dimensions (W × H × D)	Approx. 32 × 43.8 × 7.9 mm (1.3 × 1.7 × 0.3 in.)
Weight	Approx. 22.5 g (0.8 oz) (excluding terminal cover)

Battery Charger MH-65 (supplied with the COOLPIX S610)

Rated input	AC 100-240 V, 50/60 Hz, 0.08-0.05 A
Rated capacity	8–12 VA
Rated output	DC 4.2 V, 0.7 A
Supported batteries	Nikon Rechargeable Li-ion Battery EN-EL12
Charging time	Approx. 150 minutes when battery is fully discharged
Operating temperature	0 to 40 °C (32 to 104 °F)
Dimensions (W × H × D)	Approx. 58 × 27.5 × 80 mm (2.3 × 1.1 × 3.1 in.) (excluding projections)
Weight	Approx. 65 g (2.3 oz) (excluding power cable)

Technical Notes

133

Specifications

AC Adapter EH-63 (supplied with the COOLPIX S610c)

Rated input	AC 100–240 V, 50/60 Hz, 0.18–0.1 A
Rated capacity	18–22 VA
Rated output	DC 4.8 V, 1.5 A
Operating temperature	0 to 40 °C (32 to 104 °F)
Dimensions (W × H × D)	Approx. 41 × 23.5 × 79 mm (1.6 × 0.9 × 3.1 in.) (excluding projections)
Length of cable	Approx. 1.7 m (5 ft. 7 in.)
Weight	Approx. 110 g (3.9 oz) (excluding power cable)

✔ Specifications

Nikon will not be held liable for any errors this manual may contain. The appearance of this product and its specifications are subject to change without notice.

Supported Standards

- **DCF**: Design Rule for Camera File System is a standard widely used in the digital camera industry to ensure compatibility among different makes of camera.
- **DPOF**: Digital Print Order Format is an industry-wide standard that allows pictures to be printed from print orders stored on the memory card.
- **Exif version 2.2**: This camera supports Exif (Exchangeable Image File Format for Digital Still Cameras) version 2.2, a standard that allows information stored with photographs to be used for optimal color reproduction when images are output from Exif-compliant printers.
- **PictBridge**: A standard developed cooperatively by the digital camera and printer industries, allowing photographs to be output directly to a printer without connecting the camera to a computer.

Technical Notes

Index

Technical Notes

Technical Notes