# PENTAX
# Optio S4

The Ultimate Blend
of Size and
Functionality

Digital

# PENTAX™

# Thin and stylish, high quality, portable compact zoom

This high quality compact zoom camera lets you take images at an even higher level, while its ultra-portable dimensions make it ready to use, anytime, anywhere. The styling and design of the Optio S4 is a result of many years of creating cameras at PENTAX. The camera has a high sensitivity CCD and a shutter with a rapid response time, while remaining ultra small, ultra light, and thin. The camera features 4.0 effective megapixels and a 3X optical zoom, making it the pinnacle of compact digital cameras. The Optio S4 uses the unique PENTAX "Sliding Lens system" to produce a smaller, thinner camera, that includes the ultimate in new technologies. The design is optimized for the user through the natural positioning of buttons, with a user-friendly four-way controller, that gives easy control of the camera's myriad functions.

## Sliding Lens system

PENTAX's long history of technical innovation has resulted in the advanced technologies that combine to create the Optio S4. The Sliding Lens system with its amazing 3X optical zoom uses a unique technology that removes lens elements from the optical axis to reduce the size of the camera.
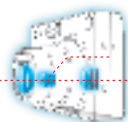
**Switching On**
Three lens blocks combine along a single optical axis.

**Lens Stored**
The center lens block slides up.
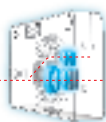
**Switching Off**
The lens blocks are stored in two stages.

## A body with a new aesthetic - the ultimate in compact style.

Spindle process on an aluminum alloy body, and a luxurious finish. Stylish, high grade design that befits such a high-quality camera.

# Optio S4

# High definition for great detail through the full maximum zoom range – 4.0 megapixels with a 3X optical, and 4X digital zoom

The high-performance 3X optical zoom lens of the Optio S4 produces beautiful pictures with minimal image distortion. Use together with the 4X digital zoom, to give a combined 12X zoom.

5.8mm
(equivalent to 35mm in 35mm format)

17.4mm
(equivalent to 105mm in 35mm format)

4X digital zoom
(equivalent to 420mm in 35mm format)

Image taken with Optio S4.
Aperture value : F4.8  Shutter speed : 1/60 sec.

# Explore the powerful and easy-to-use capabilities of the Optio S4

Optio S4 brings together a wealth of PENTAX technology in a single compact camera. In addition to Picture Mode, which lets you capture all the beautiful images you could desire, it has a wide variety of functions to please the novice through the advanced amateur. An easy-to-operate virtual mode dial gives you a wealth of modes, so you can take the most appropriate shot.

## Program

Control a variety of functions to achieve the results you desire.

## Picture mode

Select a mode to match the scene you want to take, and with a press of the shutter, take expressive, beautiful, pictures quickly and easily.

### Landscape
Emphasizes rich hues, and the color contrast between greenery and sky.

### Flower
Perfect for capturing the lush colors and beauty of flowers.

### Autumn Color
Captures the bright, rich colors of autumn.

### Sunset
Captures more lifelike colors, displaying the warmth and beauty of the rising and setting sun.

### Portrait
Faithfully reproduces natural skin tones.

### Self-portrait
Take self portraits, or add a friend to the frame.

### Surf & Snow
Take pictures of water and snow scenes, just as they appear.

## Night scene mode

Night scene mode is ideal for capturing images in the evening or at night. Using this mode together with the flash lets you bring out detail in both your subject and in the background.

## Movie with sound

The Optio S4 can record up to 60 seconds of video with sound, at 15 frames per second, and 320 x 240 recorded pixels. The file is stored in AVI format, for easy playback on computers.

*System requirements: PCs running Windows 98/98SE, Me, 2000, or XP HomeEdition/Professional which came with DirectX 8.0 and Windows Media Player installed, or have with QuickTime™6.0 or later installed (included on the accompanying CD-ROM), Macintosh machines running OS 8.6 or later with QuickTime6.0 or later installed.

## Panorama Assist

Take multiple pictures either vertically or horizontally as guided by the camera, and combine them using the provided computer software to create breathtaking panoramas.

*ACD photostitcher is compatible with Windows systems only.

## 3D image mode

The 3D image mode gives you photos, which when viewed with the provided 3D image viewer, have a greater sense of depth and perspective.
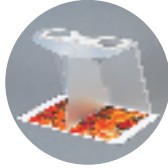
## Digital Filter

You can select black and white or sepia filters to create dramatic pictures, and the wide range of color filters (red, pink, yellow, green, blue, and purple) will also let you influence the final photo. The Optio S4 also has a special slim filter, to make subjects appear narrower or broader than in real life.

Slim filter
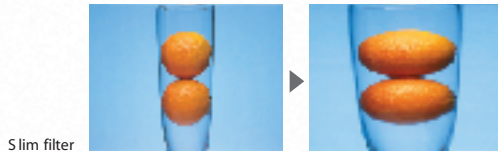
## USER

The Optio S4 offers a range of useful shooting modes, and it can also memorize preferred combinations of settings.

Explore the powerful and easy-to-use capabilities
of the Optio S4

# A range of useful modes

EXTRA CAPABILITIES

Enjoy taking pictures of a quality that belie the compact proportions of this camera.

## Macro shooting mode

Macro mode works at its optimum when the subject is as close as 7.1 inches (18cm), whereas Super Macro mode has a fixed focusing distance, so you can get as close as 2.6 inches (6cm) to your subject. Use with the maximum 4X digital zoom to make the subject even larger. This mode lets you have miniature subjects fill the whole frame, so the camera can capture the smallest details.

## Infinity-landscape mode

This mode sets the focus to infinity, for crisp, clear focus when taking landscape photos.

## Voice recording mode

The Optio S4 can record up to 4 hours 22 minutes of sound (with a 64MB memory component).

# Technology for pictures just as you envision them

The Optio S4 offers a variety of convenient modes and features to simplify photography. These features let you take even greater control of your photography.

## LCD monitor

The high-resolution, 1.6 inch LCD monitor helps you compose pictures by showing the subject, and check images you have just captured.

## Easy playback

Reviewing images you've captured is just as easy as taking them. Simply press the playback button to view stored photos. Use the camera's shutter release button to quickly switch back and forth from viewing to shooting modes.

## Nine-image display and Zoom display

The screen can display up to nine images simultaneously to make it easier to quickly search for pictures. The screen can also display images at up to 4X magnification, for checking focus and other details within pictures you have already taken.

## Optical Viewfinder

Optio S4 also offers an optical viewfinder. This helps save power by reducing the need for the LCD monitor.

## Built-in auto flash

The flash in the Optio S4 can be set to discharge in low light conditions. The camera also features Flash on, Flash off, and red-eye reduction* capabilities for increased versatility.

*This feature does not eliminate "red-eyes" in all instances.

## 7-point autofocus

The 7-point autofocus setting lets you capture your subjects easily, even when they are not in the center of the frame. When you're ready to shoot, press the shutter release button slightly, and the autofocus frame will identify the area upon which the shot will be focused.

## Spot AF

Spot AF enables you to select a specific point for sharp focus from any of 49 locations within the frame, including in corners.

## Manual focus

The manual focus function on the Optio S4 allows you to adjust the focus as you wish. Prior to taking the picture, you can confirm your focus by viewing an enlarged image on the LCD screen.

## White balance mode

Use white balance mode for adapting to the various natural lighting conditions you may encounter. In addition to an automatic setting, there are daylight, shade, and indoor lighting (tungsten and fluorescent) options. There is also a manual setting that gives you the freedom to experiment.

## Exposure compensation

Exposure compensation from +2 to -2 EV in 1/3 steps gives even broader exposure control.

-1EV          +1EV

## Histogram display

A graphical display on the LCD monitor shows you more accurate information about lighting levels during both shooting and playback, giving you more accurate control, and better pictures.

## Metering options

Different shooting situations call for different metering methods. With a choice of multi-segment, center-weighted, and spot metering options, the Optio S4 gives you better pictures in almost any situation.

## Sensitivity

Sensitivity can be configured easily, either by selecting auto mode, or the ISO 50, ISO 100, or ISO 200 settings.

## Camera customization

You can customize your Optio S4 by choosing a favorite image for your startup screen, and by selecting operating sounds.

## Self-timer

The Optio S4 has a self-timer, so you can take your own picture, or be in group shots.

## Remote control

Two optional remote control units are available. The zoomable remote control E and the remote control F allow three-second or immediate shutter release.

## AV output terminal included

Recorded pictures and audio can be enjoyed with ease on your TV monitor! Simply use the AV cable provided to connect the Optio S4 to the television.

## DPOF function

When used together with DPOF-compatible printers, the Optio S4 lets you control the number of copies and the date display directly from the camera.
*Some printers may not support this function. Please consult your printer manufacturer for more information.

## Exif Print/PRINT Image Matching II compatibility

When used together with Exif Print and PRINT Image Matching II compatible printers, the Optio S4 can produce even more accurately printed colors.

## A full range of other useful features

CONVENIENCE

## Setting for sharpness, saturation, and contrast

The Optio S4 gives you the option of setting sharpness, saturation, and contrast in any of five steps, for greater control over your picture taking, and for even more satisfying results.

## World time function

The world time function makes the Optio S4 perfect for travel. It displays time information for 62 cities around the world, and can record the time photos were taken.

## Alarm clock function

The perfect travel companion, the Optio S4 can be used as an alarm clock, or to remind you of items on your schedule.

## Mode memory function

Save combinations of picture taking settings using the mode memory function. The camera will automatically remember which mode was last used, and return to that mode whenever you turn the camera on.

## Voice memo function

Make picture viewing even more fun, by adding up to 30 seconds of audio to your still images.

## ACDSee for PENTAX

ACDSee for PENTAX software is easy to install on PCs and Macs. This makes it easy to convert between graphic formats, create albums, manage your pictures, show thumbnails, and to view, edit, and print your pictures simply and quickly.

*System requirements: PCs with Pentium CPU or later, over 64MB memory capacity, over 40MB hard disk capacity, and a standard USB port. Macintosh machines with PowerPC 266MHz or later, over 8MB memory capacity, over 6MB hard disk capacity, and standard USB port.

## 11MB built-in memory

The Optio S4 has approximately 11MB of internal memory, that lets you capture images without any additional media.

## SD memory card / MultiMediaCard(MMC). USB mass storage class compatibility*

The Optio S4 works with the widely available SD memory cards and MultiMediaCards, and for further convenience, data can be transferred easily between the built-in memory and these memory cards. USB connectivity lets you import data quickly and easily into a range of common software applications, even allowing a number of images to be transferred simultaneously.

*System requirements: PCs running Windows 98/98SE, Me, 2000, or XP HomeEdition/Professional operating systems. Macintosh machines running OS 8.6 or later.

## Nomenclature

Self-timer lamp
Remote control receiver
Built-in flash
Viewfinder
Lens
Microphone
Tripod socket

Shutter release button
Power switch

Focus status lamp (green)
Viewfinder
Flash status lamp (red)
LCD monitor
Menu button
Display button
Playback button

⚡ / 🗑 button
☘▲MF / ⊶ button
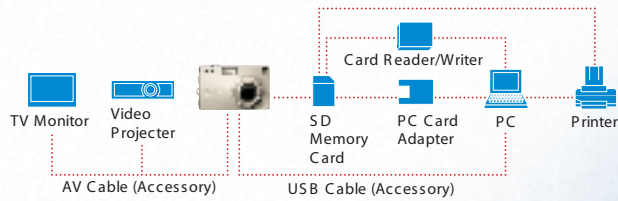Zoom / ⊟ / 🔍 button
DC input terminal
Strap lug
Speaker
PC /AV terminal
Battery / Card cover
Four-way controller (▲▼◀▶)
(OK button in the center)
⏱🕙 / DPOF button

## System chart

TV Monitor
Video Projecter
SD Memory Card
PC Card Adapter
PC
Printer
Card Reader/Writer

AV Cable (Accessory)
USB Cable (Accessory)

## Accessories

Included  • Rechargeable Lithium-ion Battery • Battery Charger • AC Plug Cord • 3D Image Viewer • AV Cable • USB Cable • Software (CD-ROM) • Strap

Sold Separately  • AC Adapter Kit • Remote Control E (with Zooming Capability) • Remote Control F • Soft Case

## Specifications

| | |
|---|---|
| Type | Compact-type digital still camera with built-in zoom lens, autofocus, auto exposure and auto flash |
| Effective Pixels | 4.0 megapixels |
| Sensor | 4.23 megapixels (total pixels) 1/2.5 inch interline transfer CCD with a primary color filter |
| Color Depth | 10 bit |
| Recorded Pixels        Still | 2304 x 1728 pixels, 1600 x 1200 pixels, 1024 x 768 pixels, 640 x 480 pixels |
| Movie | 320 x 240 pixels |
| Sensitivity | Auto, fixed (equivalent to ISO 50, 100, 200) |
| File Formats        Still | JPEG (Exif 2.2), DCF, DPOF |
| Movie | AVI (Motion JPEG format) 15 fps, with sound |
| Sound | WAV (ADPCM), monaural |
| Quality Levels | ★★★(Best), ★★(Better), ★(Good) |
| Storage Media | Built-in memory (approx. 11MB), SD memory card, MultiMediaCard (MMC) |
| Image Storage Capacity | Exposure capacity when using built-in memory. |

| Recorded Pixels | ★★★(Best) | ★★(Better) | ★(Good) |
|---|---|---|---|
| 2304 x 1728 | 3 | 7 | 10 |
| 1600 x 1200 | 9 | 15 | 21 |
| 1024 x  768 | 19 | 36 | 47 |
| 640 x  480 | 43 | 67 | 90 |

| | |
|---|---|
| Voice Recording Time | 46 min. (built-in memory) |
| Movie Recording Capacity | 59 sec. x 1 files (built-in memory) |
| Lens | smc PENTAX power zoom 5.8mm-17.4mm (equivalent to 35mm-105mm in 35mm format) F2.6-F4.8, 6 elements in 5 groups (2 dual-sided aspherical elements). |
| Digital Zoom | 1X - 4X |
| Focusing System        Type | TTL contrast detection autofocus system Manual focus/Infinity-landscape mode available |
| Focusing Areas | 7-point autofocus, spot autofocus |
| Focusing Range        Autofocus | Normal: 1.31ft (0.4m) to infinity Macro: 0.59ft (0.18m) to 1.64ft (0.5m) Super macro: 0.2ft (0.06m) to 0.65ft (0.2m) at 10.2mm (equivalent to 61.5mm in 35mm format) |
| Manual Focus | 0.2ft (0.06m) to infinity |
| Exposure Control        Metering System | TTL metering: Choice of Multi-segment metering, Center-weighted metering, Spot metering |
| Exposure Modes | Program, Picture mode, Night scene, Movie, Panorama assist, 3D image, Digital filter, User |
| Picture Modes | Landscape, Flower, Portrait, Self-portrait, Surf & Snow, Autumn color, Sunset |
| Digital Filter | Black & White, Sepia, Red, Pink, Purple, Blue, Green, Yellow, Slim |
| Exposure Compensation | ±2 EV (1/3 steps) |
| Movie | Shooting time: approx. 1 sec. - 60 sec.(depending on memory card capacity) |
| Shutter | Programmed AE electronic lens shutter with CCD electronic shutter. Shutter speed: approx. 1/2000 sec. to 4 sec. |
| Drive Modes | One shot, Continuous, Remote control, Self-timer |
| Flash | Built-in series-control auto flash Automatic discharge under low lighting conditions in auto modes. Flash-on and Flash-off modes. "Red-eye" reduction function employs a pre-discharge. |
| Effective Range | Approx. 0.65ft - 11.5ft (0.2m - 3.5m) (5.8mm at Sensitivity 200) Approx. 0.65ft - 6.6ft (0.2m - 2m) (17.4mm at Sensitivity 200) |
| White Balance | Auto, Daylight, Shade, Tungsten light, Fluorescent light, Manual setting |
| Optical Viewfinder | Actual-image zoom viewfinder |
| LCD Monitor | 1.6 inch, TFT color LCD (Approx. 84,000 pixels), field of view: Approx.100% |
| LCD Function | Nine-image, 1X-4X magnification, slide show, voice memo available in playback mode. |
| Time        World Time | Display the time in 62 cities (28 time zones) |
| Alarm Clock | Display an image with alarm (max. three memory settings) |
| Interfaces | AV output terminal, USB terminal, DC input terminal |
| Video Output | Compatible with NTSC and PAL formats (monaural sound) |
| Power Sources | Rechargeable D-LI8 lithium-ion battery (allows approximately 180 shots to be taken*). Optional AC adapter also available. |
| Dimensions | 3.3 x 2.0 x 0.8 inches (83(W) x 52(H) x 20(D) mm) (excluding protrusions) |
| Weight | 4.1oz. (115g) loaded and ready 3.5oz. (98g) without battery and SD memory card |

* According to the results of in-house testing. (With LCD monitor on and flash used for 50% of the shots)