Nikon

COOLPIX
4500
DIGITAL CAMERA

Swivel Magic

4x Zoom-Nikkor Lens	4.0 Effective Megapixels	5-Area Multi Autofocus	Unique Swivel Design	16 Versatile Scene Modes	www.nikon-coolpix.com

The swivel design gives you a firmer grip, especially at waist-level position — a vital feature when you need to minimise camera shake in low-light conditions.

The swivel design makes it easy to take low-angle shots, and capture that once-in-a-lifetime expression.

Never before has a camera offered such a **radically exciting swivel design.** Never before has a digital camera delivered this kind of **aim-and-shoot versatility.** Slim, stylish, it moves the way you do, enabling you to **shoot at any angle** — high, low or straight from the hip. The **high-performance 4x Zoom-Nikkor lens** dramatically extends your reach, and a **4x digital zoom** brings your images even closer. With **4.0 million effective pixels,** the COOLPIX 4500 gives you crisp large-format prints in remarkably fine detail — and Nikon's **unique image processing algorithm** renders them in
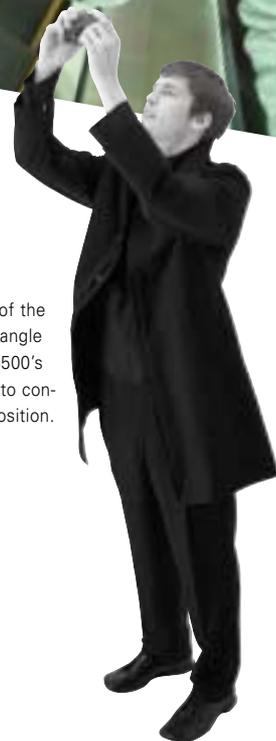
Actual size

An exciting new angle

The COOLPIX 4500 dramatically expands your shooting perspective, enabling bold, dynamic compositions.

Enhance the perspective of the wideangle lens with high-angle shooting. The COOLPIX 4500's swivel design allows you to concentrate on picture composition.

true-to-life colour. The **16 Scene Modes** for specific settings make it easy to capture the essence of each and every picture, and the **auto pop-up flash** ensures balanced lighting. What's more, the COOLPIX 4500 accepts the **growing array of COOLPIX 900 series accessories** — including Slide Copy Adaptor, Remote Cord and Wideangle, Telephoto and Fisheye converters — so you can continue developing your digital photography skill, or use it as a serious business tool. What are you waiting for? Discover the magic of the COOLPIX 4500 today.

on fine photography

Images on LCDs and monitors shown in this brochure are simulated.

High-resolution, high-performance Zoom-Nikkor

◆**Superior Optical Performance** ——
The COOLPIX 4500 lens features 10 elements in 8 groups and incorporates two aspherical lens elements that not only maximise optical performance throughout the entire zoom range — minimising lens aberration, even at the widest aperture — but also enable a more compact body design. Incorporated in the lens is a seven-blade rounded iris diaphragm that gives you precise control over aperture settings. And an amazing macro shooting feature lets you get as close as 2cm from your subject.

◆**4x Optical plus 4x Digital Zoom** ——
The COOLPIX 4500 employs a high-performance 4x Zoom-Nikkor lens with 7.85-32mm coverage (equivalent to 38-155mm in 35mm format), dramatically extending your photographic reach. And a 4x digital zoom brings your captured images even closer.

4x optical zoom plus 4x digital zoom

▲Wide   ▲Tele

Auto Pop-up Speedlight
When available light is insufficient, the Auto pop-up Speedlight emerges automatically to provide supplementary illumination, ensuring bright, colourful pictures with negligible red-eye effect.

Auto

Slow Sync

Play button

Quick Review
Quick Review lets you view any previously captured images in quarter-screen size.

Microphone

Voice Memo Function
Images can be annotated with a brief voice memo to help manage your growing collection of images.

Monitor button

Flash mode button

Sync terminal

Optical viewfinder with dioptre adjustment

Command dial

Function button

Mode button

Power switch

Rugged magnesium (Mg) alloy camera body

Focus mode button

Menu button

The secret behind th

◆**4.0 Effective Megapixels** —— The COOLPIX 4500, with its newly developed 1/1.8-in. CCD, boasts 4.0 million effective pixels to give you pictures of impressive quality. Beautiful ultrahigh-definition 2,272 x 1,704-pixel images put large-format printing within easy reach, and enable you to digitally enlarge and crop your pictures while retaining remarkably fine detail.

◆**Nikon's Unrivalled Image Processing Technology** —— Nikon has made spectacular advances in the field of digital imaging with cutting-edge research into white balance, image processing, scene analysis and composition, and other vital areas. Our superior algorithms, the all-important image processing systems within the camera, form the unique difference that makes Nikon images stand out from the rest. The COOLPIX 4500 has refined this ability to express colours faithful to the original — from delicate, subtle skin tones and the vivid hues of nature, to high-contrast technical details and the fine gradation of landscapes — setting a decisive new standard in photography.

High-definition images with strikingly lifelike colour

▲4x digital zoom

Zoom buttons

Thumbnail playback
Multiple-frame playback in
4- or 9-image frames makes
review of your images fast and
efficient.

Histogram Indication
For full confidence in the
exposure setting, each image
can be checked for highlights
and lowlights immediately after
shooting.

USB connector

LCD monitor

Noise Reduction ON

Auto White Balance Bracketing

Reddish   Normal   Bluish

Saturation Control

High   **Low**   **Monochrome**
(ideal for direct   (ideal for creative
printing)   photography)

Speaker

Multi selector

Focus Area Selection
The handy Multi selector allows
you to target any of five focus
areas in the frame for easy and
precise compositions.
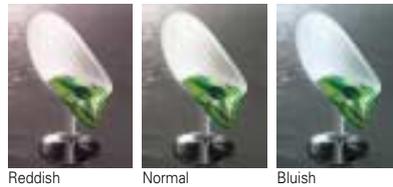
◆**TTL White Balance** —— Matrix auto
white balance automatically measures
the white balance in a scene. Or choose
from five manual settings — Daylight,
Incandescent, Fluorescent, Cloudy, and
Speedlight — for more creative image
control. Auto white balance bracketing
captures images at three different white
balance settings (reddish, selected
value, and bluish) all with a single
release of the shutter.
◆**Saturation Control** —— Colour
saturation adjustment allows you to
control image saturation in five steps, or
select Black & White or Sepia mode.
High-saturation images reproduce boldly
for home printing, while lower-saturation
images are ideal for postproduction and
manipulation on your computer.
◆**Noise Reduction Mode** —— This
feature — automatically activated when
you use a slow shutter — employs a
multiple exposure technique to
eliminate background noise buildup from
the CCD and deliver extended time
exposures with exceptional results.

o s e   a m a z i n g   i m a g e s

◆**Five-Area Multi Autofocus** —— The Five-Area Multi Autofocus features approximately 7,100 AF steps
for extra-high-precision focusing. An extra-wide focus range ensures sharp pictures in diverse compositions.
And when the situation demands, Manual focusing gives you ultimate control. In Macro mode, the
COOLPIX 4500 allows you to get as close as 2cm from your subject.   ◆**Exposure Metering Modes** ——
The COOLPIX 4500 offers four exposure metering options, including Nikon's exclusive 256-segment
Matrix Metering for optimal exposures even in difficult lighting conditions. Other choices include Centre-
Weighted and Spot metering. Spot AF Area metering automatically delivers the optimal exposure for your
selected focus area.   ◆**P, S, A, M Exposure Modes** —— Choose from four exposure modes —
Programmed Auto [P], Shutter-Priority Auto [S], Aperture-Priority Auto [A], or Manual [M] — for any
situation imaginable. Exposure compensation allows you to manually shift the exposure value (EV) from –2
to +2 in 1/3 EV steps. And Auto Exposure Bracketing does it all for you, automatically.

Creative control options

16 Versatile Scene Modes

Sixteen programmed Scene Modes make it easy to capture optimal results in the most diverse shooting situations. With the COOLPIX 4500, anyone, even a novice photographer, can take great images simply by choosing the appropriate mode for the next picture.

Portrait
Emphasises a subject with natural skin tones against a soft, pleasing background.

Party/Indoor
Captures the details of dimly lit scenes. In low-light situations, the Speedlight fires automatically.

Night Portrait
Fires the built-in Speedlight to illuminate the subject and keeps the shutter open long enough to capture the background.

Close Up
Takes up-close pictures with an artistically blurred background.

Multiple Exposure
Artistically combine two images on a single frame. A transparent first image helps you with composition when taking the second image.

Dawn/Dusk
Catches the natural-light beauty of dim or hazy situations, such as just before sunrise or after sunset.

Panorama Assist
Allows you to take several side-by-side images, all at the same exposure and white balance setting, then combine them later using the supplied photo editing software to create spectacular wide-vista photos.

Back Light
Automatically fires the Speedlight to illuminate the shadows that cover a subject.

Beach/Snow
Vividly captures the brightness of subjects such as snowy fields, beaches, or sunlit expanses of water.

Landscape
Captures distant scenes with postcard-like sharpness and clarity.

Sunset
Enables users to capture the natural beauty of sunsets.

Night Landscape
Produces stunning night landscapes by employing slow shutter speeds.

Fireworks Show
Instantly responds to the shutter release button to capture fireworks at the ideal moment.

Museum*
Produces sharp, clear indoor pictures without triggering the flash.

*Note: In some museums and exhibitions, it is prohibited to take pictures, even without a flash. Be sure to obtain permission before taking pictures.

Copy
Renders clear black and white reproductions of text or drawings from a whiteboard or printed matter.

Sports
Uses a fast shutter speed to capture sharp, clear images that freeze the action.

Scene Modes

Portrait

Party/Indoor

Night Portrait

Beach/Snow

Landscape

Sunset

Response

Capture the images you've been looking for

Night Landscape

Museum

Fireworks Show

Close Up

Copy

Back Light

Sports

Panorama Assist

Dawn/Dusk

Multiple Exposure

Easy data management

♦**Instant Image Transfer** —— Connect your COOLPIX 4500 to a computer with the USB cable (supplied) to automatically launch the Nikon View 5 (for Windows & Macintosh) dedicated driver software. Then, simply choose the Transfer Function and your selected images will be uploaded automatically to your computer.

♦**Perspective Control** —— With certain subjects, such as tall buildings, the perspective tends to be emphasised when shot from a low angle. After you have taken such an image, this feature allows you to de-emphasise or straighten the converging lines.

Before   After

♦**Small Picture Function** —— The Small Picture function creates a reduced-size copy (640 x 480, 320 x 240, 160 x 120, or 96 x 72 pixels) for quick and easy e-mailing to family and friends.

♦**Nikon View 5** —— A convenient software package for creating and maintaining your own digital photo archive. Transferred images appear as thumbnails, making it easy to select and view individual photos. Programmed Slide Show enables you to create attractive presentations. And layout printing allows you to make large-size prints for framing, or multiple-print layouts for your own album. What's more, you can now upload your COOLPIX 4500 photos to Nikon Fotoshare*, our premier online photo community, to start sharing your most exciting memories with family and friends. At Nikon Fotoshare, you can create online photo albums and order prints quickly and easily.

Nikon Fotoshare

Nikon View 5

*http://www.nikon.co.uk/fotoshare

*Nikon Fotoshare may not be available in some regions.

Converter Lenses

The COOLPIX 4500 is fully compatible with the growing line of COOLPIX 900 series converters. Wideangle and Fisheye converters broaden your perspective, providing a field of view that can put your subjects into the picture, or give near-infinite depth of field; the Telephoto converter extends the focal length to bring distant objects up close.

Fisheye Converter

Wideangle Converter

Telephoto Converter

Macro Cool-Light

With Macro Cool-Light SL-1

With built-in Speedlight

The new Macro Cool-Light SL-1 accessory enhances COOLPIX 4500 versatility by evenly illuminating near-field subjects for detailed Macro shots without obtrusive shadows.

System

Only Nikon offers you a versatile system to address your digital photography needs.

The MC-EU1 remote cord (80cm) enables you to control zoom settings, interval shooting and playback, and to turn the LCD on or off. It also allows you to confirm information such as the exposure mode and number of frames to be captured.

Remote cord

Whether you use your COOLPIX 4500 for pleasure or business, Nikon offers accessories designed to meet your individual needs.
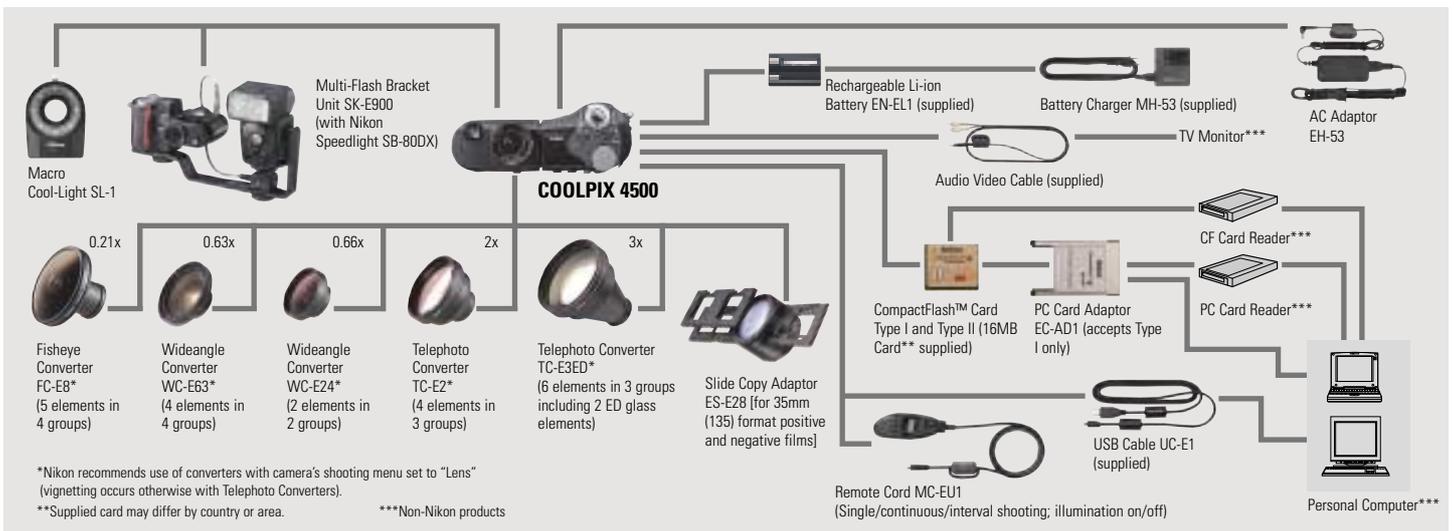
The COOLPIX 4500 accepts both CompactFlash™ Card Type I and II (includes 512MB/1GB IBM Microdrive™) storage options. CompactFlash™ Card Type I is compatible with the PC Card adaptor.

CompactFlash™ Cards

Total COOLPIX System

Macro Cool-Light SL-1

Multi-Flash Bracket Unit SK-E900 (with Nikon Speedlight SB-80DX)

COOLPIX 4500

Rechargeable Li-ion Battery EN-EL1 (supplied)

Battery Charger MH-53 (supplied)

AC Adaptor EH-53

TV Monitor***

Audio Video Cable (supplied)

0.21x
Fisheye Converter FC-E8* (5 elements in 4 groups)

0.63x
Wideangle Converter WC-E63* (4 elements in 4 groups)

0.66x
Wideangle Converter WC-E24* (2 elements in 2 groups)

2x
Telephoto Converter TC-E2* (4 elements in 3 groups)

3x
Telephoto Converter TC-E3ED* (6 elements in 3 groups including 2 ED glass elements)

Slide Copy Adaptor ES-E28 [for 35mm (135) format positive and negative films]

CompactFlash™ Card Type I and Type II (16MB Card** supplied)

PC Card Adaptor EC-AD1 (accepts Type I only)

CF Card Reader***

PC Card Reader***

USB Cable UC-E1 (supplied)

Remote Cord MC-EU1 (Single/continuous/interval shooting; illumination on/off)

Personal Computer***

*Nikon recommends use of converters with camera's shooting menu set to "Lens" (vignetting occurs otherwise with Telephoto Converters).
**Supplied card may differ by country or area.   ***Non-Nikon products

Type of camera	Digital camera E4500
Effective pixels	4.0 million
CCD	1/1.8-inch type (4.13 million total pixels)
Image size	2272 (2,272 x 1,704); 1600 (1,600 x 1,200); 1280 (1,280 x 960); 1024 (1,024 x 768); 640 (640 x 480); 3:2 (2,272 x 1,520) selectable
Lens	4x Zoom-Nikkor; f=7.85 – 32mm [35mm (135) format equivalent to 38mm – 155mm] /F2.6 – 5.1 with macro; 10 elements in 8 groups
Digital zoom	Up to 4x
Autofocus	Contrast-detect TTL AF: 5-area Multi AF or Spot AF selectable
Focus modes	Single AF mode; Continuus AF mode also available Manual Focus (50 positions, focus confirmation image)
Focus range	30cm to infinity (50cm at widest zoom setting), 2cm to infinity in Macro mode
Optical viewfinder	Real-image zoom viewfinder Frame coverage: approx. 80%; Dioptre adjustment: −2 ~ +2m⁻¹
LCD monitor	1.5-in., low-temp. polysilicon TFT (LED-BKL) 110,000-dot; brightness (5 levels) adjustment, Frame coverage: approx. 97%
Storage system	Exif 2.2 file (uncompressed TIFF-RGB or compressed JPEG) Design rule for camera file system (DCF), Fine: approx. 1/4; Normal: approx. 1/8; Basic: approx. 1/16; uncompressed mode TIFF-RGB Quick Time Motion JPEG (Movie, Audio)
Media	CompactFlash™ (CF) Card Type I and Type II (compatible with 512MB/1GB IBM Microdrive™) No. of frames with 16MB CF Card (approx.)

Image quality \ Image size	2272	1600	1280	1024	640	3:2
HI	1	-	-	-	-	1
FINE	8	16	24	37	86	9
NORMAL	16	31	47	69	144	17
BASIC	32	59	86	121	229	34

Shooting modes	AUTO, SCENE, P, S, A, M
Scene modes	Portrait, Party/Indoor, Night Portrait, Beach/Snow, Landscape, Sunset, Night Landscape, Museum, Fireworks Show, Close Up, Copy, Back Light, Sports, Panorama Assist, Dawn/Dusk and Multiple Exposure
Shooting menu options	Single, Continuous, Ultrahigh-speed Continuous (approx. 30 fps for 70 QVGA-size images), Movie with audio (35 sec. for QVGA-size images at 15 fps), Multi-Shot 16 (5 fps; 16 frames in 1/16 size), Image Adjustment (Auto / Normal / More Contrast / Less Contrast / Lighten / Darken), Image sharpening (Auto / High / Normal / Low / Off), Saturation control, Self-timer
Exposure metering	4-mode TTL metering: 1) 256-segment Matrix, 2) Centre-Weighted, 3) Spot, 4) AF Spot
Shutter	Mechanical and charge-coupled electronic shutter; 8 to 1/2,300 sec., and Bulb (up to 5 min.)
Aperture	7-blade iris diaphragm; 10 steps in 1/3 EV increments
Exposure control	1) Programmed Auto with Flexible Program [P], 2) Shutter-Priority Auto [S], 3) Aperture-Priority Auto [A], 4) Manual [M]; Exposure Compensation (±2 EV in 1/3 EV steps); Auto Exposure Bracketing
Exposure range	EV −2.2 ~ +17 (W), EV −0.3 ~ +18.1 (T) (ISO 100 equivalent)
Sensitivity (approx.)	Auto or Manual (ISO 100, 200, 400, 800 equivalent); can be controlled in any exposure mode
White balance	1) Matrix Auto White Balance with TTL control, 2) 5-mode Manual with fine tuning (Daylight / Incandescent / Fluorescent / Cloudy / Speedlight), 3) Preset, 4) White Balance Bracketing
Self-timer	10 sec. or 3 sec. duration
Auto OFF mode	1min.; can also be set manually (30 sec. 1 / 5 / 30 min.)
Built-in Speedlight	Auto pop-up type Shooting range: approx. 0.5 – 3.0m (W), approx. 0.5 – 1.6m (T) Flash control: Sensor flash system Flash modes: 1) Auto Flash, 2) Anytime Flash, 3) Slow Sync, 4) Red Eye Reduction with pre-Flash, 5) Flash Cancel
External Speedlight	Multi-flash sync terminal connects to external Nikon Speedlight SB-80DX/30/28DX/28/26/25/24/22s through the Multi-Flash Bracket Unit SK-E900; built-in Speedlight can be cancelled when using external Speedlight(s)
Playback menu options	1) 1 frame, 2) Thumbnail (4/9 segments), 3) Slide show, 4) Enlarged playback (up to 6x); Histogram indication and highlight point display; Focus confirmation indication; Hide and protect attributes can be set to each image
Interface	USB 1.1 interface
I/O terminal	Power input; Audio/Video output (NTSC or PAL selectable); Digital terminal (USB 1.1/Remote Cord); Sync terminal for external Speedlight
Power requirements	One Rechargeable Li-ion Battery EN-EL1 (included), One 6V 2CR5/DL245 lithium battery (optional), AC adaptor EH-53 (optional)
Battery life	Approx. 100 min. (as measured at room temperature [20°C] under standard Nikon test conditions: monitor on, zoom adjusted with each shot, flash used in approx. one third of photographs, image quality set to NORMAL, image size 2,272 x 1,704)
Dimensions (W x H x D)	130 x 73 x 50mm
Weight	Approx. 360g (without battery and storage media)
Accessories included*	Lens cap, Neck strap, Audio Video cable, 16MB CompactFlash™ Card, USB cable UC-E1, Rechargeable Li-ion Battery EN-EL1, Battery Charger MH-53, Nikon View 5 (COOLPIX) CD-ROM

*Standard accessories may differ by country or area

Nikon View 5 System Requirements

	Macintosh		Windows
OS	Mac® OS 9.0 – 9.2 (only built-in USB ports supported), Mac® OS X (10.1.2 or later)	**OS**	Windows® 98SE, Windows® Me, Windows® 2000 Professional, Windows® XP Home Edition, Windows® XP Professional pre-installed model
Models	iMac™, iMac™ DV , Power Macintosh® G3 (Blue & White), Power Mac® G4 or later; iBook™, PowerBook® G3 or later (only built-in USB ports supported)	**Models**	Only models with built-in USB ports supported
		CPU	Pentium® 300MHz or faster
RAM	64MB or more recommended	**RAM**	64MB (128MB or more recommended)
Hard disk	25MB required for installation, with additional amount equivalent to twice the capacity of the camera memory card plus 10MB required when Nikon View 5 is running	**Hard disk**	25MB required for installation, with additional amount equivalent to twice the capacity of the camera memory card plus 10MB required when Nikon View 5 is running
Display	800 x 600 with thousands of colours (millions of colours recommended)	**Display**	800 x 600 with High Colour (True Colour recommended)
Others	CD-ROM drive required for installation	**Others**	CD-ROM drive required for installation

ALL-IN-ONE-PACKAGE

- Neck Strap
- 16MB CompactFlash™ Card
- USB Cable UC-E1
- Audio Video Cable
- Rechargeable Li-ion Battery EN-EL1
- Battery Charger MH-53
- Lens Cap
- Nikon View 5 (COOLPIX) CD-ROM

Specifications and equipment are subject to change without any notice or obligation on the part of the manufacturer. May 2002.

Exif Print "Exif Print" is the industrial term for Exif 2.2, which is a newly established standard for Digital Still Camera Image File Format.

⚠ **WARNING** TO ENSURE CORRECT USAGE, READ MANUALS CAREFULLY BEFORE USING YOUR EQUIPMENT. SOME DOCUMENTATION IS SUPPLIED ON CD-ROM ONLY.

rik multimedia

QuickTime

ISO 9001 Certified
ISO 9001
Certificate No. 40904
NIKON CORPORATION
Imaging Company

Nikon Fotoshare may not be available in some regions.

En