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## Nikon coolpix p510 bridge camera

16.1MP | 24-1000mm (42X) Zoom | \$429 £399 The 16 megapixel Nikon Coolpix P510 is a compact camera in the superzoom class, that sports a 42X optical zoom, covering a currently unmatched focal range of 24-1000mm (equivalent), compared to 38X (23-810mm) from its predecessor the P500. As well as an extended zoom range, the new model also features a new 16MP CMOS sensor, the same as that used in the recently-reviewed Coolpix P310, and a handful of new features and enhancements, including GPS with logging and (according to Nikon) improved image stabilization compared to the P500. Nikon Coolpix P510 key specifications: 42X zoom (24-1000mm) 16.1MP CMOS sensor 3in, tiltable 921k-dot LCD PASM shooting modes 1920 x 1280 video mode Inbuilt GPS with logging function Weight (with battery and SD card) 555 g (1.22 lb / 19.58 oz) Dimensions 120 x 83 x 102 mm (4.72 x 3.27 x 4.02 inches) Click here for full specifications, user reviews, sample images and more... The appeal of so-called 'super' or 'megazoom' compact cameras is obvious when you compare the focal range of their zooms against what is available for DSLR and mirrorless system cameras. There's no doubt that in the current field, the Coolpix P510 wins the 'big numbers' game and, frankly, we were pleasantly surprised at what this camera can achieve with a 1000mm lens. Although cameras like the Canon PowerShot SX40 HS with its 35X wide angle zoom, the 30X Sony Cyber-shot HX200V and the 24X Panasonic Lumix DMC-FZ150 offer impressive versatility, the Nikon P510 provides a meaningful amount of extra 'reach' that makes a difference when shooting distant subjects. These two images were taken from the same position at the 24mm and 1000mm ends of the P510's optical zoom range. As you can see, the P510 has quite a reach... Note the heat haze in the image shot at 1000mm - this is by far the biggest threat to image quality when shooting at telephoto settings, outdoors. The Nikon P510 is all about increases - megapixels (16 versus 12), maximum shutter speeds (1/2000th second vs. the P500's 1/1500th second), and ISO sensitivity, which runs from 100-3200 with a HI 1 equivalent to 6400, compared to the P500's max setting of ISO 3200. It's a little slower though at 7fps continuous shooting instead of 8fps, but since both cameras can only capture up to 5 shots in a burst, the drop in framerate probably won't make much of a difference in day-to-day shooting. At wide angle, the P510's lens is a fraction faster (*f*/3.5) than the P500's but slower at telephoto (*f*/5.9 vs. *f*/5.7). Like the P310 and some Samsung models, the P510's battery is charged in-camera (an optional standard battery charger is available) and, at 240 shots per charge, battery life is decent without being outstanding. Handling and Operation Available in black or red, the P510's plastic body is complemented by a deep, contoured and textured grip. With its protruding lens barrel and prominent grip, the P510 resembles a small DSLR but without the bulk and weight. It's comfortable to hold and provides enough wiggle room between the grip and the lens barrel so your fingers don't feel cramped. At 19.6 ounces fully loaded, it weighs a couple of ounces more than the P500 but its physical dimensions are similar at 82.9mm x 119.8mm x 102.2mm (3.3 x 4.8 x 4.1 inches), with the P510 being wider than its predecessor by the small matter of 0.2 inches (5mm). Smaller than a DSLR, the P510 is nevertheless quite a handful, and a deep, pronounced grip makes it very comfortable to hold and use. Just hidden in this view is a rubber 'back stop' for your thumb, but just visible is the rear control dial. To the right is the P510's direct movie shooting button and an electronic viewfinder sits centrally and above the 3in tiltable LCD screen. Here's the electronic viewfinder close-up. The knurled wheel to the left is a +/-4 diopter adjustment and the small button below it switches between LCD and EVF live view modes. The P510's rear LCD is tiltable and although not as versatile as a fully-articulated display, it is very useful for high/low angle shooting. An electronic viewfinder (EVF) and 3-inch, 921k dot, hinged LCD both offer 100% coverage (the P500's EVF was 97%). The EVF is small and poky, but generous diopter correction of +/-4 is available. (I usually have to peg the diopter to the far end of magnification without my reading glasses but can set it to the middle on the P510.) The LCD can be angled for shooting overhead and low angle shots and is clear and usable in all but the darkest locations. In extremely low light, it brightens briefly, but only long enough to quickly compose a shot. The P510's rear panel is home to the combined 4-way controller/control dial, at the cardinal points of which are direct control points for flash mode, self-timer, exposure compensation and macro focus mode. At upper left and lower right, playback and image delete, respectively. The top of the P510 plays host to a customizable Fn button, combined zoom collar and shutter release and the exposure mode dial. This provides access to a good range of options including an automatic mode, program AE, shutter- and aperture-priority, full manual and a custom user setting. The P510's biggest selling point is its 42X optical zoom lens. This lens features a separate zoom switch on the barrel, which is ideally placed for operation with the left hand. A conventional zoom switch can be found around the shutter button but this side-mounted control is more convenient for video. Control layout is fairly standard with a zoom/shutter combination, mode dial, customizable function (Fn) button and on/off button atop the grip. A separate zoom lever is positioned on the lens barrel and can be operated with the left hand while supporting the camera to zoom, focus manually and to quickly return the zoom to its previous position. A pop-up flash and the GPS antenna are positioned on the top of the camera. A button to the left of the EVF switches back and forth between LCD and the viewfinder (annoyingly there's no automatic switch). The control wheel, which cycles through menus (vs. the thumbwheel, which is used to change shutter and aperture settings), doesn't have a lot of play, so it's easier to accurately stop at a specific menu item. While the P510 doesn't have an equivalent to the built-in help system of Sony's HX200V, for example, the camera is pretty easy to shoot with and fairly intuitive. As well as PASM, the exposure mode dial also provides access to a trio of scene modes, with a long list of others (including scene auto selector, portrait, sports, beach, snow, night portrait, pet portrait, two panorama options and 3D) when the 'SCENE' mode option is selected. We are retrieving offers for your location, please refresh the page to see the prices. Page 2The Monster Adapter LA-KE1 gives Pentaxians a way to use many of their K-mount lenses with full AF on Sony E-mount mirrorless bodies. Mike Tomkins looks at how it performs.Laowa has just announced a new 20mm shift lens, and we were able to put it through its paces in downtown Calgary.Rotolight's new NEO 3 and AEOS 2 lights may be more powerful than their predecessors, but they go one step further, providing millions of colorful lighting options via a touchscreen display.The new Sony 16-35mm F4 PZ is obviously an interesting choice for video work, but we think it's a solid choice for photographers as well.We stress test the OM System OM-1 and Canon EOS R3 at an indoor hockey game. Does the Micro Four Thirds camera stand a chance?Page 3 Video with stereo sound, albeit without an external microphone, can be recorded in full 1920 x 1080p or 1280 x 720, iFrame at 960 x 540, or 640 x 480 all at 30fps. The P510 also offers high speed and slow motion video options, which are fun to use, although small file sizes are best for Web and computer viewing. Zoom is enabled during video capture although you may hear the lens movement. It's easier and quieter to use the slower-moving zoom lever on the lens barrel although ambient noise will often mask the sound of the lens motor. Video quality is pretty good for casual viewing and auto white balance and auto exposure worked quite well outdoors in sunlight and shadow. Test footage was clear and nicely saturated although the autofocus can take a little while to catch up when using full-time AF. Occasionally, however, the lens simply refused to focus when zooming in on a subject, and its attempts to refocus can be distracting, as you can see from the first clip, below. The P510 features a built-in stereo microphone, the apertures for which are positioned on either side of the flash housing. Movie recording is initiated using this button, positioned on the rear of the camera within easy reach of the thumb. Sample Video 1 The P510 doesn't have a problem with capturing video footage of fast-moving subjects, as this clip shows. Notice some pretty severe fringing though, around the lights in the ceiling of this subway station - something that the camera does a much better job of dealing with in still images. If you listen very carefully to the soundtrack of this clip you can here a muffled scraping noise, caused by the photographer's hands shifting position on the camera. 1920 x 1080 30p, 22.8MB, MOV, 10 sec. Click here to download original file Sample Video 2 The P510's stereo microphone apertures are well-separated, on opposite sides of the flash/EVF housing. As a consequence, although L-R separation isn't fantastic, it's a lot better than we've seen from many compact cameras that record stereo sound. In this clip, notice how the P510 loses and re-acquires focus several times as its lens is zoomed during recording. 1920 x 1080 30p, 49.6MB, MOV, 21 sec. Click here to download original file Sample Video 3 Smooth motion and plenty of detail in this clip, but again, as the zoom is activated and the camera panned, AF 'hunts' distractingly a couple of times. The P510's optical vibration reduction system does a good job of keeping footage stable at the long end of the zoom, though. 1920 x 1080 30p, 53.3MB, MOV, 23 sec. Click here to download original file We are retrieving offers for your location, please refresh the page to see the prices.

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