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Sean Barnett and Mike Tomkins Review Date: 04/01/09 While it looks completely different, the Canon PowerShot SD780 IS replaces the previous model SD770 in the company's lineup. The Canon SD780 IS at first is strikingly small and thin, and it incorporates much of what makes Canon PowerShots so very popular: high build quality, fast and reliable autofocus, innovative features, and optical image stabilization. New to the list of features is the high-definition capabilities of the film. This little camera is capable of capturing 1280 x 720 pixel movies that you can play on your TV or computer later. The Canon SD780 IS is based on a 1/2.3-inch, 12.1-megapixel CCD image sensor, DIGIC 4 image processor, and Canon-branded 3x optical zoom lens. The Canon SD780 IS lens offers focal lengths of 33 to 100 mm equivalents, and has true optical image stabilization. Maximum aperture ranges from f/3.2 to f/5.8 in scale range, and macro focus is only up to three centimeters. Continuous shooting is possible from one frame per second. In addition to a very small but true optical viewfinder, the Canon SD780 IS offers a 2.5-inch LCD with 230,000 pixels. Maximum image sizes of 4000 x 3000 pixels, and 30 frames per second 720p (1,280 x 720) movie recording is also possible with the Canon SD780. Sensitivity usually ranges from ISO 80 to 1600 equivalent ISO and can be extended to the equivalent of ISO 3200 in high sensitivity scene mode. The built-in flash gate is rated as good up to 11.5 feet (3.5 meters) at a wide angle, and 6.6 feet (2 meters) on the telephoto. Images and movies are stored on SD cards, HDMI high definition and NTSC/PAL standard video output definition plus USB 2.0 high-speed computer connectivity on offer, and the Canon PowerShot SD780 draws energy from its own NB-4L lithium-ion battery. Available in black, red, silver or gold body colors, the Canon SD780IS ships from mid-March 2009 with a price of US\$280. Canon SD780 IS User Report by Sean Barnett With its extremely rounded edges and thin profile, the Canon SD780 IS is the very definition of an alluring digital camera. Although it's actually about the same height, width and thickness as the company's SD1000 and SD1100, the Canon SD780 seems a little thinner, and slips into the pocket of shirts with more stealth than any Canon PowerShot in history. Look and feel. Available in four colors, the Canon SD780 IS, however, takes a monochrome approach to each, with each part taking on the main color, including lens bezel and protruding parts; The only exception is the black center piece, which separates the two main shells, front and back. The effect here is not so dramatic, because silver cameras are the norm, but the red, black and gold models are more striking. The soft sheen of the skin of the SD780 diffuses light, and feels soft to the touch. While the Canon SD780 does pocket well, we always recommend the case for any You want to keep working well and look good. This digital camera is lightweight, weighing just 4.6 ounces (132g). There is no grip on all canon SD780 IS, neither front nor rear, so I recommend attaching and using a included wrist strap to ensure safety. Controls. Power on the Canon SD780 is made with the ON/OFF button on the upper deck, making the lens expand regardless of the mode switch setting. Unlike previous cameras in the SD series, the PowerShot SD780 does not include playback mode on its mode switch. This is a welcome change because it means that the camera is always powered into recording mode, and returns to recording mode with a light-tight shutter button. Of course, if you want to power it in playback mode, just click the play button on your back. Back on the upper deck of the Canon SD780, the Magn ring surrounds the shutter button, making for a quick and easy framing with the right index finger. Just below the words IMAGE STABILIZER is the Speaker Canon SD780 to play the movie. The control space on the back is cramped, but the buttons are flush with the surface, meaning that you can have your thumb covering multiple buttons without activating them. The Canon SD780's four-way navigator is quite small, requiring me to angle my thumb inside somewhat to press the external navigation buttons rather than activating the central function/set button. It didn't take long to master, however. The Canon SD780's 2.5-inch LCD is a little more contrasting and has a wider viewing angle than the SD1000 screen of the same size. While it is good that the Canon SD780 IS has an optical viewfinder, it shows an absolutely small image that we saw at the point and shoot digicam. In the top right corner of the Canon SD780 IS, where they decided to put the lid on the connector; underneath you will find an HDMI cable connector and a new hybrid USB/AV-out connector. The good news is that although the connector is slightly different, it remains compatible with the standard Mini-B USB connector, and Canon includes both a USB cable and a special AV-out cable shown on the left. To the right of the body of the Canon SD780 is a lanyard loop, sunk into a black plastic middle part, further highlighting the flash control camera theme. The overall feel of all controls is excellent, with the only exception being a very cheap plastic door that protects batteries and SD cards. Use caution when changing batteries and SD cards and this will still serve pretty well. Lens. The PowerShot SD780 IS lens is a very standard 3x zoom, ranging from the 33-100 mm equivalent. It seems to be a little smaller than other SD series digital cameras, and has a small initial aperture f/3.2-5.8. Of course, this explains the slim profile of the SD780, but it also, unfortunately, significantly limits the image quality of the camera. Not only in low light, although it also affects. Optical Canon images help the camera in low light, however, when stabilizing, stabilizing, you can see on the screen if you choose Continuous in the IS menu. IS is especially useful when shooting HD movies with Canon SD780. Modes. The mode switch chooses between the three main modes for the Canon SD780 IS: Auto, Program and Movie mode. The automatic mode is actually quite impressive compared to past Auto modes on PowerShot cameras. Canon has integrated intelligence into the Canon SD780, allowing it to analyze the scene and decide what you are framing, then it sets the appropriate scene mode to get the best picture possible. It's surprisingly fast compared to other systems I've seen. If the Canon SD780 doesn't notice anything special about the scene, it just stays in Auto mode. Introducing it with something close, and the camera automatically switches to Macro mode, allowing the lens to focus in the macro zone without user intervention. Hang it further on some facets, and the camera comes out of Macro mode, switching to facial recognition mode. Once the face is detected and you half press the shutter button, the camera opens the screen window that shows the face close-up so you can check the focus, exposure and even expression. Of course, you don't have to leave it in Auto, you can instead go into program mode that allows you to make your own settings, within reason. You can't set the aperture or shutter speed, but you can choose which scene mode you want, as well as open your manual ISO settings, white balance, my color options, measurement modes, continuous modes, and various resolution settings through the Canon SD780 menu feature. HD Movie Canon SD780 will capture high-definition movies up to 1280 x 720 pixels with 30 frames per second. Other modes include 640 x 480 at 30 fps and 320 x 240 at 30 fps. Once captured, you can simply connect the SD780 to HDTV via the Mini-HDMI connector. You will need to buy a Mini-HDMI for HDMI cable, however, because the SD780 does not include a cable (no other digital camera with HDMI connector comes with HDMI cable to date, so this is not unusual). Menu. The Canon SD780 menu is limited to two screens: the camera menu and the settings menu. Pushing the menu button in play mode opens the menu to play, print, and settings. New options include flashing detection, Servo AF, and AF-point zoom in the recording menu, as well as several photo editing options in playback mode, including the ability to use i-Contrast (smart contrast), red eye correction, pruning, and my colors for photos you've already captured. Storage and battery. Canon SD780 IS stores images on SD/SDHC memory cards. A 4 to 8GB card should be enough for it if you plan to shoot a lot of videos with the Canon SD780. Such a thin camera requires a small, thin battery. Canon chose its existing NB-4L for SD780 IS, 3.7 volt 760 mAh lithium-ion cell. It is estimated to capture up to 210 still shots on a single charge, which is actually below average for most digital cameras. Play Play It is also expected to deliver about 300 minutes; however, no number is published for the video. If you plan to use the SD780 for video, I suggest buying a spare battery. Shooting. The Canon SD780 is very fast. This becomes apparent when shooting in Auto mode more than anywhere else, because the scene modes are chosen almost before you press the shutter button. Facial detection also occurs almost instantly, as the person detects the increase. I found all the controls and buttons easy to use, and although the SD780 IS was somewhat slippery, I found it about as easy to hold as the SD1000 once I got it under control. I would definitely use a wrist strap with this little guy. Shooting outdoors in daylight I had no problems at all with the Canon SD780 IS. Indoors, however, the SD780 IS fired far fewer sharp shots despite the image stabilization. All my portable shots of our indoor test target were soft. Some of them were soft because the camera had to raise the ISO to 800 to get a good exposure (thanks to the f/3.2-5.8 lens), while others we are soft because of the blurring movement. It wasn't until I switched to flash mode that I got good, sharp shots. THE ISO only rises to 250, allowing a shutter speed of 1/60 seconds. Switching to slow-synchronous flash mode allowed more ambient light to illuminate the scene, and I got about 50/50 sharp and motion-blurred shots for 1/5 to 1/6 seconds, again on ISO 250. That's not a bad thing. This does not take into account the subject of movement, however, which is also important to consider when photographing people indoors and at night. Bottom line, the SD780 IS for all its looks really isn't a great indoor or night-time digital camera, despite the built-in optical image stabilisation. Similarly, excessive noise suppression of the SD780 does mutate fine details, especially among textured colors. Many images also suffer from lens flashing throughout the image and softening in corners. You can see more in the cultures below, but I was curious whether the problem was the SD780 smaller lens, as this is a big part of how Canon has managed to make the SD780 their slimmer camera to date. Since the SD1000 was close at hand and we recently viewed the 10-megapixel SD880 IS as already Dave's Picks, I thought I'd compare their sD780's images. The results were astounding. SD780 SD1000 SD880 SD780 SD1000 SD880 detail. Comparing the 12.1-megapixel SD780, it's clear that this small camera can't capture the detail that the 7.1-megapixel Canon SD1000 and 10-megapixel Canon SD880 can, thanks mainly to the soft SD780 lens and excessive aggressive noise handling. Two low-resolution camera images were upsampled equal to SD780's 4000 x 3000 pixels the size of the image, and they weren't sharpened after what you should normally do size, further emphasizing the markedly reduced

resolution ability of the SD780. Flash. The overall contrast of the Canon SD780 depends on its lens's tendency to flash. Notice the glow coming off coming off labels above on the left, and compare it to images from the SD1000 and SD880 as the resampled again equals the size of the pixel SD780. Next, look at the green field and see how it affects the contrast around the white letters. While it is true that the Canon SD780 is the company's thinnest digital camera, they had to make some compromises to get only 0.031 inches 0.8 mm over the SD1000 in terms of thickness, most of them optical compromises. We expect some reduction in image quality, but reducing both detail and contrast is a lot. Canon SD780 IS Lens of Broad: Sharp in the Center Broad: Very soft top right Body: Sharp in the center of the Body: Soft top right corner Sharpness: As is normal for pocket digital cameras, the SD780 image is sharper in the center than in the corners. At a wide angle there is a little more mitigation than usual, especially in the top right corner. Telephoto is much better, although again the top right angle is softer than the others. Broad: Lower than average barrel distortion Tele: Very little barrel distortion of geometric distortion: There is lower than average barrel distortion at a wide angle (0.5%), and almost no noticeable distortion of any kind on telephoto. Broad: Moderate Body: Lower chromatic aberration: Chromatic aberration at a wide angle is moderate and noticeable. Telephoto is also moderate, but less visible in printed photos. Macro: The Macro Canon SD780 captures a very sharp image in the center, with a softness and chromatic aberration radiating from the center. Overall, however, it doesn't soften terribly by looking pretty good across the frame. The minimum coverage area is 1.36 x 1.02 inches (35 x 26 mm). The flash does not suffocate back well at the nearest focus distance. Canon SD780 IS Color image quality: The color is somewhat muted in some respects, especially yellow, some of which have a small green tint. Blues are pumped more than red, but the color looks mostly accurate, not the usual trend towards oversaturation that most companies use to appeal to consumers. The shade is also a little off for colors like yellow and blue. Dark skintons are a little more saturated, but the light tones are pretty spot on. ISO: Noise and details: The detail is really not good even on the ISO 80, appearing pretty soft. The chrome (color) noise is pretty well controlled at all ISOs, but that's probably part of the problem: in managing chrome noise (accidental color pixels) they soften in detail. For a 12-megapixel camera, it's pretty poor detail, and I can't recommend shooting the Canon SD780 much higher than the ISO 200. Read more about this below. Broad: Bright Tele: Slightly Dim Flash: Our manufacturer-certain testing shows what the SD780 IS does, and the company says it will be in auto-flash mode, capturing a well-exposed shot at a wide angle and 11 feet, raising ISO to 400. Telephoto requires and the camera provides a good exposure at 6.6 feet on the ISO 250 though I'm not going to be Auto WB: Very Good Incandescent WB: A Small Pink Incandescent Cast: Auto White Balance handles our tungsten lighting test better than incandescent mode, with the latter rendering a pinkish image. It's a very good performance. Printed: ISO 80 Printed results are too soft at 13x19 inches, with lens flashes too visible, and soft angles appear too sharp too. Printing on 11x14 is better, albeit with a hint of softness even in the center. The ISO 200 shots are a little softer on the 11x14, and thanks to the flash and softness of the noise suppression, look better on the 8x10. THE ISO 400 shots may be years to work on the 8x10, but still bland on close inspection. The ISO 800 shots are too soft on the 8x10, and are still a little blurry on the 5x7. This is less noticeable on the 4x6. The ISO 1600 shots are too soft on the 5x7 and also soft on the 4x6, but they'd do as a last resort. These are surprisingly bad results for a modern 12-megapixel digital camera. Canon SD780 IS Performance Shutter lag: Full shutter autofocus lag is slightly better than average, 0.49 seconds at a wide angle and 0.51 seconds on full telephoto. The preliminary shutter lag is 0.078 seconds, pretty fast. Cycle time: Cycle time is on the slow side of the middle, capturing the frame every 2.2 seconds in one shot mode, and about every 1 second in continuous mode. Flash Recycle: The Canon SD780 flash is recycled in 6.8 seconds after the full power discharge, which is on the long side of the middle. In the box Canon SD780 IS ships with the following elements in the box: PowerShot SD780 IS body NB-4L battery CB-2LV charger SD memory card SDC-32MB Wrist strap Digital Camera Solution CD-ROM USB cable IFC-400PCU AV cable Canon SD780 IS Conclusion Pro: Con: Very thin Smooth Angles make it an easy-pocket optical image stabilization mode HD film HDMI output face detection works well and the fast mode Auto switches sensibly among the scene modes 2.5-inch LCD has a good contrast, the wide viewing angle Very good mode Macro Good Auto White Balance performance indoors Fast speed load lag Optical viewfinder very small buttons can be difficult to work for those Who with big hands No grip means that the camera is harder to keep below average battery life Some angles of the image are quite soft lens flashes of damage to the overall contrast , makes white objects glow Total resolution is greatly reduced thanks to excessive aggressive noise processing and the lens flash Detail destroyed on the ISO 400 and higher print quality is bad for the 12-megapixel digital camera Conclusion. I handpicked the Canon SD780 IS from the Spring 2009 digital camera range, hoping it would be a good performer as I expect its appearance just to make it a great seller. We even see sites give it a positive review. While we really like how the camera works, and at least two of us were on our short list as our next camera pocket, the fact that it can't exceed the capabilities of the two-year-old 7.1-megapixel Canon SD1000 flooded flooded Plans. We continue to believe that the SD780 IS is a very good digital camera to use, and that it will serve as a decent camera to serve good 4x6-inch prints for up to ISO 800, but that the 12-megapixel designation on the front of the camera makes it look like the camera is capable of more. The flash lens, much of the problem with the Canon SD780, will also be noticeable in most 8x10 extensions or more; without flash, we would probably give the SD780 a stronger recommendation with a warning of strong noise reduction. The exception is the SD780 mode, where the lens flash will be less of a problem; So if you're looking for a very, very small 720p camera, the SD780 can serve well. The Canon SD780 is a beautiful little digital camera that's thin and pretty fast, but it doesn't measure up to Canon better than current pocket cameras like the Canon SD880 IS, which we recommend so highly that we did it Dave's Pick before we even finished the review. Reviews. canon powershot sd780 is charger. canon powershot sd780 is manual. canon powershot sd780 is battery. canon powershot sd780 is price. canon powershot sd780 is review. canon powershot sd780 is ebay. canon powershot sd780 is digital camera. canon powershot sd780 is webcam

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