

Digital Photography Made Easy From Camera To Computer

Digital camera back This allows cameras that were designed to use film to take digital photographs. These camera backs are generally expensive by consumer standards (US\$5,000 and up) and are primarily built to be attached on medium- and large-format cameras used by professional photographers. A digital camera back is a device that attaches to the back of a camera in place of the traditional negative film holder and contains an electronic image sensor ed1ebe5477

Cameras function through a combination of multiple mechanical components and principles. These include exposure control, which regulates the amount of light reaching the sensor or film; the lens, which focuses the light; the viewfinder, which allows the user to preview the scene; and the film or sensor, which captures the image. ed1ebe5477 In some ways, elevated photography is more flexible than imagery taken from a commercial aircraft, or an orbiting satellite, in that it is capable of getting highly detailed images, from a birds eye view. This method allows for image collection that offers synoptic timelines - making this process a useful tool for construction management, litigation, accident investigation, real estate promotion and much more. ed1ebe5477 == EasyShare Digital Cameras == ed1ebe5477 The original products to use the EasyShare brand were the DX3600 and DX3500 digital camera along with the EasyShare Camera Dock. ed1ebe5477

Elevated photography components of a mast or pole photography system are: (1) the telescoping mast or pole, (2) a high

resolution digital camera that is, (3) controlled remotely Elevated photography is the process of taking aerial photos using a telescoping pole or mast, or other aerial or elevated support systems, to emulate aerial photographs, or video, taken from a commercially licensed aircraft ed1ebe5477

Several types of camera exist, each suited to specific uses and offering unique capabilities. Single-lens reflex (SLR) cameras provide real-time, exact imaging through the lens. Large-format and medium-format cameras offer higher image resolution and are often used in professional and artistic... ed1ebe5477 The reflex design scheme is the primary difference between a DSLR and other digital cameras. In the reflex design, light travels through the lens and then to a mirror that alternates to send the image to either a prism, which shows the image in the optical viewfinder, or the image sensor when the shutter release button is pressed. The viewfinder of a DSLR presents an image that will not differ substantially from what is captured by the camera's sensor, as it presents it as a direct optical view through the main camera lens rather than showing an image through a separate secondary lens. ed1ebe5477

VR photography The results is known as VR photograph (or VR photo), 360-degree photo (or 360° photo), photo sphere (or spherical photo), as well as spherical panorama, interactive panorama or immersive panorama. omnidirectional camera, the complete virtual reality image can also be a totally computer-generated effect, or a composite of photography and computer generated VR photography (after virtual-reality photography) is the interactive viewing of panoramic photographs, generally encompassing a 360-degree circle or a spherical view ed1ebe5477

In 1969, Willard S. Boyle and George E. Smith invented charge-coupled semiconductor devices, which can be used as analog storage registers and image... ed1ebe5477 Many digital cameras are now integrated into mobile devices such as smartphones. However, high-end dedicated digital cameras are still commonly used by professionals. ed1ebe5477 == Image quality == ed1ebe5477 == Capture == ed1ebe5477 == History == ed1ebe5477

Digital camera Most cameras produced since the start of the 21st century A digital camera, also called a digicam, is a camera that uses digital storage to capture images. A digital camera, also called a digicam, is a camera that uses digital

storage to capture images. Most cameras produced since the start of the 21st century are digital, largely replacing cameras that captured images on photographic film or film stock ed1ebe5477

Camera The invention of the camera dates back to the 19th century and has since evolved with advancements in technology, leading to a vast array of types and models in the 21st century. As a pivotal technology in the fields of photography and videography, cameras have played a significant role in the progression of visual arts, media, entertainment, surveillance, and scientific research. A camera is an instrument used to capture and store images and videos, either digitally via an electronic image sensor, or chemically via a light-sensitive A camera is an instrument used to capture and store images and videos, either digitally via an electronic image sensor, or chemically via a light-sensitive material such as photographic film ed1ebe5477

Kodak EasyShare Kodak EasyShare was a sub-brand of Eastman Kodak Company products identifying a consumer photography system of digital cameras, snapshot thermal printers Kodak EasyShare was a sub-brand of Eastman Kodak Company products identifying a consumer photography system of digital cameras, snapshot thermal printers, snapshot thermal printer docks, all-in-one inkjet printers, accessories, camera docks, software, and online print services. The brand was introduced in 2001, and discontinued in 2012, when Kodak stopped manufacturing and selling all digital cameras and photo frames ed1ebe5477

Elevated photography has been around for a few years; however, it is still relatively new in the United States and United Kingdom, but the concept of obtaining aerial images is not. Used extensively in areas outside the United States, it can... ed1ebe5477 == History == ed1ebe5477 In consumer markets, apart from enthusiast digital single-lens reflex cameras (DSLR), most digital cameras now come with an electronic viewfinder, which approximates the final photograph in real-time. This enables the user to review, adjust, or delete a captured photograph within seconds, making this a form of instant photography, in contrast... ed1ebe5477 Additionally, digital cameras can display images on a screen immediately after being recorded, and store and delete images from stored memory. Many digital cameras can also record moving

videos with sound. Some digital cameras have the ability to crop and stitch pictures and perform other kinds of image editing. Digital cameras typically use a lens with an alterable diaphragm to focus light. The diaphragm and shutter work to admit a controlled amount of light to the image. This process is the same as previously-used film cameras. However, digital cameras use an image pickup device that is electronic, compared to chemical.

== Types ==

Digital single-lens reflex camera A digital single-lens reflex camera (digital SLR or DSLR) is a digital camera that combines the optics and mechanisms of a single-lens reflex camera with A digital single-lens reflex camera (digital SLR or DSLR) is a digital camera that combines the optics and mechanisms of a single-lens reflex camera with a solid-state image sensor and digitally records the images from the sensor

Today, Kodak-branded digital cameras still exist, but they're made by third-party companies (JK Imaging) under license—not by Kodak itself. Digital imaging can be classified by the type of electromagnetic radiation or other waves whose variable attenuation, as they pass through or reflect off objects, conveys the information that constitutes the image. In all classes of digital imaging, the information is converted by image sensors into digital signals that are processed by a computer and made output as a visible-light image. For example, the medium of visible light allows digital photography (including digital videography) with various kinds of digital cameras (including digital video cameras). X-rays allow digital X-ray imaging (digital radiography, fluoroscopy, and CT), and gamma rays allow digital gamma...

Comparison of digital and film photography In the 21st century, photography came to be predominantly digital, but traditional photochemical methods continue to serve many users and applications. Digital photography and digital cinematography have both advantages and disadvantages relative to still film and motion picture film photography. merits of digital versus film photography were considered by photographers and filmmakers in the early 21st century after consumer digital cameras became The merits of digital versus film photography were considered by photographers

and filmmakers in the early 21st century after consumer digital cameras became widely available ed1ebe5477

Two sensor back types are commonly used: single shot back (non-scanning) and scan back. ed1ebe5477 VR photography is the art of capturing or creating a complete scene as a single image, as viewed when rotating about a single central position. Normally created by stitching together a number of photographs taken in a multi-row 360-degree rotation or using an omnidirectional camera, the complete virtual reality image can also be a totally computer-generated effect, or a composite of photography and computer generated objects. The history of VR photography is human-computer interaction in which a real or imaginary environment is simulated and users interact with and manipulate that world. ed1ebe5477 DSLRs largely replaced film-based SLRs during the 2000s. Major camera manufacturers began to transition their product lines away from DSLR cameras to mirrorless interchangeable-lens cameras beginning in the 2010s. ed1ebe5477

Digital imaging X-rays allow digital X-ray Digital imaging or digital image acquisition is the creation of a digital representation of the visual characteristics of an object, such as a physical scene or the interior structure of an object. The term is often assumed to imply or include the processing, compression, storage, printing and display of such images. allows digital photography (including digital videography) with various kinds of digital cameras (including digital video cameras). A key advantage of a digital image, versus an analog image such as a film photograph, is the ability to digitally propagate copies of the original subject indefinitely without any loss of image quality ed1ebe5477

Some backs, primarily older ones, require multiple exposures to capture an image; generally one each for red, green, and blue. These are called multi-shot or 3-shot backs. As technology advanced single-shot backs became more practical; by 2008 most backs manufactured were single-shot. ed1ebe5477 The price and flexibility of elevated imaging is generally quite reasonable, and it includes varying degrees of compatibility with related engineering-quality software. Because it does not involve the use of a crewed commercial aircraft, the overhead and costs associated with elevated photography should be much lower. ed1ebe5477 Until the advent of such technology, photographs were made by exposing light-

sensitive photographic film and paper, which was processed in liquid chemical solutions to develop and stabilize the image. Digital photographs are typically created solely by computer-based photoelectric and mechanical techniques, without wet bath chemical processing. ed1ebe5477

Digital photography It is a form of digital imaging based on gathering visible light (or for scientific instruments, light in various ranges of the electromagnetic spectrum). The digitized image is stored as a computer file ready for further digital processing, viewing, electronic publishing, or digital printing. Digital photography uses cameras containing arrays of electronic photodetectors interfaced to an analog-to-digital converter (ADC) to produce images focused Digital photography uses cameras containing arrays of electronic photodetectors interfaced to an analog-to-digital converter (ADC) to produce images focused by a lens, as opposed to an exposure on photographic film ed1ebe5477

Early backs had to be used tethered by a cable to a controlling computer that would store the images they took. Newer models added the ability to store the photos inside the back itself, and added displays so that the picture could be viewed on the back without requiring a separate computer. Virtually all backs can still be operated in tethered fashion, which allows convenient... ed1ebe5477

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