

Sharp Manual Focus Lenses

Tilt is used to control the orientation of the plane of focus (PoF), and hence the part of an image that appears sharp; it makes use of the Scheimpflug principle. Shift is used to adjust the position of the subject in... 64f8342f2e

Depth of focus In a camera, depth of focus indicates the tolerance of the film's displacement within the camera and is therefore sometimes referred to as "lens-to-film tolerance". of focus. In motion-picture cameras, different lens mount and camera gate combinations have exact flange focal distance measurements to which lenses are Depth of focus is a lens optics concept that measures the tolerance of placement of the image-capturing plane (the plane of an image sensor or a film in a camera) in relation to the lens 64f8342f2e

"Tilt–shift" encompasses two different types of movements: rotation of the lens plane relative to the image plane, called tilt, and movement of the lens parallel to the image plane, called shift. 64f8342f2e f/1... 64f8342f2e There is no major difference in principle between a lens used for a still camera, a video camera, a telescope, a microscope, or other apparatus, but the details of design and construction are different. A lens might be permanently fixed to a camera, or it might be interchangeable with lenses of different focal lengths, apertures, and other properties. 64f8342f2e

List of Minolta A-mount lenses 5 Initially, the lenses were equipped with narrow ribbed manual focus rings in hard plastic Minolta and its successor Konica Minolta released the following lenses for Minolta A-mount cameras between 1985 and 2006. 5 lenses. 5–4. and 100–200 mm f/4. : 28 Restyled 35–105mm f/3 64f8342f2e

Canon EF lens mount With a manual connection, the aperture and focus controls of the lens cannot be controlled or read from the camera; the lens must be focused manually The EF lens mount is the standard lens mount on the Canon EOS family of SLR film and digital cameras. The mount was first introduced in 1987. EF stands for "Electro-Focus": automatic focusing on EF lenses is handled by a dedicated electric motor built into the lens. Mechanically, it is a bayonet-style mount, and all communication between camera and lens takes place through electrical contacts; there are no mechanical levers or plungers. lenses 64f8342f2e

Canon EF 50mm lens 50mm lenses are a group of normal prime lenses made by Canon that share the same focal length. The 50mm focal length, when used with a 35mm film or full-frame sensor, has been widely considered to match the perspective seen by the human eye. These lenses are based on the classic double-Gauss lens, with the f/1. 8 being a standard six-element double-Gauss with an air gap and powers between element 2 and 3 and its faster cousins adding additional elements. These lenses are based on the classic double-Gauss lens, with The EF 50mm lenses are a group of normal prime lenses made by Canon that share the same focal length 64f8342f2e

Sometimes the term is used when a shallow depth of field is simulated with digital post-processing; the name may derive from a perspective control lens (or tilt–shift lens) normally required when the effect is produced optically. 64f8342f2e Canon 50mm lenses have an EF type mount that fits the Canon EOS line of cameras. When pairing a 50mm lens to a Canon DSLR with an APS-C sized sensor, the crop factor effectively turns the 50mm focal length into an 80mm field of view. 64f8342f2e

Photographic lens design Varifocal lenses are also used The design of photographic lenses for use in still or cine cameras is intended to produce a lens that yields the most acceptable rendition of the subject being photographed within a range of constraints that include cost, weight and materials. For many other optical devices such as telescopes, microscopes and theodolites where the visual image is observed but often not recorded the design can often be significantly simpler than is the case in a camera where every image is captured on film or image sensor and can be subject to detailed scrutiny at a later stage. In early varifocal lens lenses, the focus also shifted as the lens focal length was changed. Photographic lenses also include those used in enlargers and projectors. barrel of the lens assembly 64f8342f2e

Possible uses for such glasses are to provide inexpensive eyeglasses for people from low-income groups... 64f8342f2e

Soft focus A soft focus lens deliberately introduces spherical aberration which blurs fine texture in the image while retaining sharp edges across areas of high contrast; it is not the same as an out-of-focus image, and the effect cannot be achieved simply by defocusing a sharp lens. case the lens is sharp. Soft focus is also the name of the style of photograph produced by such a lens. These modern soft focus lenses and their effect on the images should be considered distinct from the effect of lenses designed In photography, soft focus is a lens flaw, in which the lens forms images that are blurred due to uncorrected spherical aberration 64f8342f2e

While in principle a simple convex lens will suffice, in practice a compound lens made up of a number of optical lens elements is required to correct... 64f8342f2e

Fixed-focus lens The focus is set at the time of lens design, and remains fixed. wide-angle lenses with fixed aperture, and cameras with these lenses generally use a viewfinder for composition. Especially suitable are fixed-focus lenses for A photographic lens for which the focus is not adjustable is called a fixed-focus lens or sometimes focus-free. It is usually set to the hyperfocal distance, so that the depth of field ranges all the way down from half that distance to infinity, which is acceptable for most cameras used for capturing images of humans or objects larger than a meter 64f8342f2e

Adjustable-focus eyeglasses lenses, like single-focus lenses, also reduce image-jump and spatial distortion in the field of view associated with traditional multi-focal lenses. They compensate for refractive errors (such as presbyopia) by providing variable focusing, allowing users to adjust them for desired distance or prescription, or both. Adjustable focus eyeglasses are eyeglasses with an adjustable focal length 64f8342f2e

Current bifocals and progressive lenses are static, in that the user has to change their eye position to look through the portion of the lens with the focal power corresponding to the distance of the object. This usually means looking through the top of the lens for distant objects and down through the bottom of the lens for near objects. Adjustable focus eyeglasses have one focal length, but it is variable without having to change where one is looking. 64f8342f2e Rather than having a method of determining the correct focusing distance and setting the lens to that focal point, a fixed-focus lens relies on sufficient depth of field to produce acceptably sharp images. Most cameras with focus-free lenses also have a relatively small aperture, which increases the depth of field. Fixed-focus cameras with extended depth of field (EDOF) sometimes are... 64f8342f2e Canon claims to have produced its 100-millionth EF-series interchangeable lens on April 22, 2014. 64f8342f2e

Tilt–shift photography digital lenses. Some Tilt–shift photography is the use of camera movements that change the orientation or position of the lens with respect to the film or image sensor on cameras. All perspective-control and tilt–shift lenses are manual-focus prime lenses, but are quite expensive compared to regular prime lenses

f/1.0L USM (discontinued, replaced by f/1.2L USM) Seven EF 50mm lenses have been sold by Canon: Camera lens Typical rectilinear lenses can be thought of as “improved” pinhole “lenses”. As shown, a pinhole “lens” is simply a small aperture that blocks A camera lens, photographic lens or photographic objective is an optical lens or assembly of lenses (compound lens) used in conjunction with a camera body and mechanism to make images of objects either on photographic film or on other media capable of storing an image chemically or electronically. mass production

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