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X-H1
SHOOTING MOMENTS, MAKING STORIES.

X100V
The One and Only

- Advanced Hybrid Viewfinder
- 23mm F2 wide angle prime lens with Leaf Shutter
- X-Trans™ CMOS 4 & X Processor Pro
- Film Simulation Classic Neg.
- Weather resistance with the optional EX-100 adapter ring and HC1-185 protection filter

* X-Terra is a trademark or registered trademark of FUJIFILM Corporation.
**XF14mmF2.8 R**

High resolving power across the frame from the centre to the edges.

This ultra-wide-angle lens, which has a diagonal angle of view greater than 90°, produces extraordinary images. Distortion has been kept to a measured value of zero, with sharpness right across the frame, even when the subject is near the edges. Ideally suited to landscape and architectural photography, the minimum working distance of 18cm also enables close-up shots. Plus, the distance indicator and depth-of-field scale for pre-focusing in MF mode mean it’s great for quick snapshots, too.

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**XF16mmF2.8 R WR**

Compact ultra wide-angle lens with fast AF performance for casual snapshots.

This lens is a wide angle lens that consists of 10 lens elements in 8 groups, including two aspherical lens elements, to effectively control field curvature and spherical aberration for an advanced level of image sharpness across the frame. Its inner-focus AF system uses a stepping motor to drive the focusing group of lens elements for silent and fast autofocus. The compact lens weighs just 155g and is weather-resistant.

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**XF16mmF1.4 R WR**

Fast aperture ultra wide-angle lens

A dramatic field of view to push your photography further.

With a focal length of 24mm (35mm format equivalent) and a maximum aperture of F1.4, this lens can be used to create dynamic images. It’s perfect for low-light photography such as evening or night scenes, and despite being a wide-angle lens, the F1.4 maximum aperture delivers strong bokeh effects. With a minimum working distance of 35cm, high-speed autofocus, a weather and dust-resistant construction that can work in temperatures as low as -10°C, and great portability thanks to its compact size, it offers endless shooting opportunities.
A fast aperture lens offers beautiful bokeh and has a natural field of view that’s great for documentary images.

This wide-angle lens is perfect for capturing everyday life. The field of view equivalent to 35mm in the 35mm film format captures both subject and its surroundings for superb documentary images and despite offering a fast maximum aperture of F1.4, it weighs just 300g. It is also ideal for portraits with smooth bokeh, handheld shots in low light, and close-ups of food and small accessories when used with the camera’s Macro mode. Using the distance indicator and depth-of-field scale to pre-focus in MF mode makes it ideal for capturing quick snaps, too.

A great all-rounder with a useful field of view, great sharpness and rich tonality for perfect landscapes and portraits.

This highly portable, easy-to-handle wide-angle lens has a field of view equivalent to 27mm in the 35mm film format so it's perfect for landscapes, general snapshots and, by virtue of the 18cm minimum focusing distance, close-ups. The outstanding sharpness, combined with the maximum aperture of F2 for silky bokeh also makes it suitable for portraits; the lens' small size means your subjects won't feel intimidated.
XF23mm F2 R WR

Expanding the compact, lightweight, stylish and high-performance lenses for the X Series

The XF23mm F2 R WR is a semi-wide-angle lens with advanced image resolution, capable of drawing out the full performance of Fujifilm’s proprietary X-TRANS CMOS sensor. It has a similar size and design flair to the existing XF35mm F2, already revered to make up a stylish collection of compact F2 lenses. The inner-focus AF system uses a stepping motor to drive the focusing group of lens elements for silent and fast autofocusing.

* The type of motor that relays only a small amount of torque to the motor.

X60 | F2 | 1/6 sec. | ISO 400
Klaus Bo / Denmark

XF35mm F2 R WR

The new standard prime lens, high performance in a compact lightweight design.

A standard focal length prime lens which delivers sharp images with rich bokeh. The optical construction of 9 elements in 8 groups, including one aspherical element, achieves the perfect balance of high image quality and compact size. The exterior of the lens is weather and dust resistant and it can work in temperatures as low as -10°C. Ideal for any genre and application, this is the new standard lens for all photography fans.

 XF23 F2 | 1/500 sec. | ISO 200
Max De Martino / Italy

XF35mm F1.4 R

A high-performance standard lens with incredible definition, even when shooting wide open.

This lens delivers images with amazing clarity, even with the aperture wide open at F1.4. All the lens groups are shifted together during focusing to minimize aberration changes whether working close-up or at infinity. This unique design delivers images in which the focus is blended with smooth bokeh in out of focus areas. Offering a focal length equivalent to 55mm in the 35mm film format, it is a must-have optic for all X-Series owners.

XF27mm F2.8

At just 78g, this is the lightest lens in the X-series. Use it with a compact and lightweight camera for the perfect ‘go anywhere’ outfit.

A highly versatile lens, with a focal length equivalent to 41mm in the 35mm film format. It produces extremely sharp images even at its maximum aperture, despite its compact form factor. All performance is also exceptional. Combine it with a compact and lightweight camera body, such as the X-M1, to create anything that combines portability and fast response—perfect not only for snapshots, but also a range of other subjects including portraits, landscapes and architecture.

X60 | F2 | 1/600 sec. | ISO 100
Knut Kolviola / Sweden

XC35mm F2

Compact and lightweight standard prime.

Weighing just 250g and measuring 49.5mm in length, this new prime lens has nine elements including two aspherical lens elements in six groups, producing sharp and crisp images. The lens produces creamy bokeh while offering excellent portability and high-speed AF.
XF50mm F1.0 R WR

The world’s first AF-capable F1.0 interchangeable lens for mirrorless digital cameras. The FUJINON XF50mmF1.0 R WR will allow you to experience sharpness like you have never seen before. Free from vignetting and the ability to control aberrations, create precision with extremely creamy bokeh. Auto-focus on this F1.0 lens is effortless and the weather resistance removes any concerns that elements can cause. The XF50mmF1.0 R WR is a powerful lens that will change the way you capture the world.

XF56mm F1.2 R APD / XF56mm F1.2 R

A fast aperture medium-telephoto lens that offers both stunning sharpness and beautiful bokeh. Featuring a maximum aperture of F1.2, this lens delivers beautiful bokeh and a medium telephoto focal length equivalent to 85mm in the 35mm film format. Images are extremely sharp even with the aperture wide open. The apodization (APD) version delivers even smoother bokeh with rich tonality. This ability to produce the ultimate bokeh as your subject stands out makes this lens ideal for portraits, as well as a range of other subjects.

XF50mm F2 R WR

A mid-telephoto lens with high-speed AF, advanced sharpness and weather resistance—ideal for portraiture and everyday use. A mid-telephoto lens that delivers the very best results from Fujifilm’s unique X-TRANS CMOS sensor. Its compact and lightweight design features 9 elements in 7 groups, including one aspherical ED lens, and has an inner focusing system, driven by a stepping motor for fast and silent autofocus. Metal parts are used extensively on the exterior for a stylish, robust design with a premium feel, while the aperture and focusing rings have been designed to be comfortable and easy to use. The lens is also weather and dust resistant, and operates at temperatures as low as -10°C, making it ideal for shooting in a variety of conditions.

XF60mm F2.4 R Macro

A supremely sharp medium telephoto macro lens with a minimum working distance of 26.7cm and 0.5x maximum magnification. This medium telephoto lens produces outstanding macro images. The use of one aspherical and one extra-low dispersion element effectively controls various aberrations, such as field curvature and chromatic aberration, plus the lens groups are shifted together during focusing to achieve the highest level of sharpness in the X-series lineup. As well as being perfect for close-ups, it can also be used for many other medium telephoto applications, with the F2.4 maximum aperture delivering smooth bokeh.

Prime Mid-range Telephoto Lens
XF80mmF2.8 R LM OIS WR Macro

1.6x magnification macro lens, supports hand-held shooting with advanced Optical Image Stabilizer system.

A mid-telephoto macro lens that delivers the very best results from X-TRANS CMOS sensor. With an optical construction of 16 elements in 12 groups, including 1 aspherical lens, 1 Super ED lens, and 3 ED lenses, along with a Floating Focus System, this lens is capable of achieving high-quality macro shooting from close-up to long-shot. Furthermore, this lens supports hand-held shooting thanks to Optical Image Stabilizer system suppressing shift shake. The lens also achieves fast and silent Auto Focus system by adopting linear motors.

XF200mmF2 R LM OIS WR

It boasts exceptional image clarity with the ability to produce beautiful bokeh, making it an ideal lens for shooting sports and wildlife.

The XF200mmF2 R LM OIS WR is the first super-fast telephoto lens in the XF lens lineup, offering a fast maximum aperture of 2.0 and a fixed length equivalent to 300mm in 35mm Film format. Taking advantage of technologies synonymous with FUJINON lenses, this new telephoto lens boasts exceptional image clarity with the ability to produce beautiful bokeh, making it the perfect choice for shooting sports and wildlife.

XF90mm

F2 R LM WR

Fast aperture telephoto lens: it delivers razor-sharp, bokeh-rich images for the ultimate optical performance.

The rounded aperture blades combined with an optical construction of 11 elements in 8 groups, including three ED extra-low-dispersion elements designed to minimize vignetting, creates beautiful circular bokeh right to the edge of the image. At approx. 560g, the lens is compact, portable and offers a wide shooting range from 0.6m to infinity. Thanks to the newly developed Quad Linear Motor, it delivers high-speed autofocus, and features a weather and dust-resistant construction for maximum versatility.
XF8-16mm F2.8 R LM WR

Ultra-wide angle zoom with a constant maximum aperture of F2.8

The lens' outstanding edge-to-edge image-resolving performance and F2.8 maximum aperture makes this product a perfect choice for landscape and architecture photography with an emphasized sense of perspective, interior photography at restaurants and hotels, as well as nightscapes and astrophotography.

20 Ultra Wide Angle Lens
XF50-140mmF2.8 R LM OIS WR

Packing a premium optical performance, yet weighing less than 1kg, this rugged telephoto zoom is ready for anything.

With a telephoto range equivalent to 76mm to 211mm in the 35mm film format, this lens, which offers a constant F2.8 maximum aperture, is suitable not only for portraiture, but also for fast-moving subjects such as sports, animals, and more. It features six ED elements, including one Super ED lens element, for superb results. An image stabilization system equivalent to five shutter speed stops is also featured for shake-free results, while the triple-linear AF motor maximizes focusing performance. The dust-resistant, splash-resistant and low-temperature resistant design also ensures it can be used in almost any shooting conditions.

XF16-80mmF4 R OIS WR

Standard zoom lens features 6.0 stops OIS, that you can comfortably shoot in a wide variety of situations from a night scene or indoors without worrying about camera shake.

This new lens has a maximum aperture value of F4 throughout the focal length of 16-80mm (equivalent to 24-122mm in the 35mm film format). This lens has a minimum shooting distance of 34cm over the entire zoom range, which gives a maximum shooting magnification of 0.25x. The compact and lightweight lens weighs only 440g which is approximately 40% lighter than an equivalent lens for a 35mm format system.
**XF18-55mmF2.8-4 R LM OIS**

This standard zoom lens covers the most frequently-used focal lengths, equivalent to 27mm to 84mm in the 35mm film format. Despite its extremely light weight and compact design, it offers a variable maximum aperture of F2.8 to F4 and uses a linear motor for fast and silent AF. Image stabilization is also provided for great results in low light conditions. Suitable for a wide range of subjects, this highly portable and easy to use lens produces great sharpness and beautiful bokeh at the same time.

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**XF55-200mmF3.5-4.8 R LM OIS**

Bring your subjects closer with this highly portable telephoto zoom.

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**XC15-45mmF3.5-5.6 OIS PZ**

Minimal and lightweight interchangeable zoom lens for "X series".

This achieves high-resolution images while maintaining a compact size 44.7mm and lightweight mass of 135 g. The optical design incorporates 10 lenses in 8 groups, including three aspherical lenses and two ED lenses. It covers the focal lengths equivalent to the wide angle 23 mm to the medium telephoto 45 mm and can be comfortably used for landscape photography and portrait photography.

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**XC50-230mmF4.5-6.7 OIS II**

An advanced optical performance and 3.5-stop image stabilization deliver clear images across the zoom range.

This is a compact and lightweight telephoto zoom lens that offers zoom magnification of 4.6x, and covers the widest range of focal lengths in the series, equivalent to 75mm to 350mm in the 35mm film format. Its advanced optical performance across the entire range captures even distant subjects with great clarity, plus the image stabilization function minimizes camera shake. The use of a stepper motor enables smooth auto-focusing.
High performance all weather zoom lens
with 5.0-stop image stabilization function
that allow hand-held shots
even at super-telephoto range.

Super telephoto zoom lens covers the range of 352-609mm (35mm format equivalent). To minimize the color aberration, a typical problem for a telephoto lens, the optical construction comprises 21 elements in 14 groups with 5 ED Lens and 3 super ED Lens. The lens achieves highest image quality in its class. The lens supports the photographer to shoot super-telephoto images hand-held with the 5.0-stop optical image stabilization, quiet high-speed autofocus driven by the linear motor, and compact and lightweight design weighing less than 1.6kg. In addition to the weather- and dust-resistant, and -10°C low-temperature operation construction, the first element is applied with water and dirt repellent coating to make the lens even tougher.

XF18-135mm F3.5-5.6 R LM OIS WR

Featuring five stops of optical image stabilization,
this all-weather zoom lens covers wide angle
to telephoto focal lengths
so you can seize every photo opportunity.

This lens covers a wide range of focal lengths, from wide-angle (equivalent to 27mm in 35mm film format) through a standard field of view to telephoto, so it’s suitable for anything from landscapes and architecture to portraits and sports photography. The dust-resistant and splash-resistant lens also features an image stabilization function for added reliability. An ideal alternative to prime lenses, ensuring you’ll never miss a shot through changing lenses.
X Mount Lens Roadmap

The combination of FUJINON lenses and X Series bodies delivers exceptional image quality.

X Accessories

Tele Converter
Extend the focal length by 1.4x and 2.0x without compromising image quality

Tele Conversion Lens
TCL-X100S (36mm)
TCL-X100D (29mm)
Compatible with FUJINON 100mm F2.8 R LM OIS WR/ FUJINON 160mm F2.8 R LM OIS WR/ FUJINON 150mm F2.4 R LM OIS WR/ FUJINON 200mm F2 R LM OIS WR

Wide Conversion Lens
WCL-X100S (45mm)
WCL-X100D (38mm)
Compatible with FUJINON 35mm F1.4 R WR/ FUJINON 35mm F2 R WR/ FUJINON 50mm F2 R WR/ FUJINON 60mm F2.4 R LM OIS WR/ FUJINON 60mm F2.8 R LM OIS WR

M Mount Adapter
The M Mount adapter lets you use an incredibly wide selection of lenses with an X Mount-equipped camera body. Made from the same high-grade metal material used in X Mount cameras and the XF lens X Mount, the adapter is engineered to ensure a high-precision fit. It also features electronic contacts for communicating signals with the camera body and a function button that lets users smoothly change settings and functions for the mounted lens (About Without Lens, focal length settings, various image corrections, etc.). Also in the case of the X-Pro1, the bright frame in the Optical Viewfinder mode changes according to the lens focal length setting for easy viewing.*2

Macro Extension Tube
Fits between camera body and interchangeable lens to enable macro photography at a higher magnification ratio. Available in 11mm and 16mm, depending on the level of magnification required.

ZEISS Autofocus Lenses for X Mount
Renowned ZEISS T* lenses match perfectly with the Fujifilm X Mount System.

Find more information about these lenses at http://www.zeiss.com/
Shoe Mount Flash

Expression of Light

EF-60  FUJIFILM’s first, radio controlled wireless clip-on flash

EF-W1  A commander that broadens the field of creativity

EF-X500  High Speed Sync & Multi Flash Lighting Compatibility

EF-X20  Compact & Stylish, Manipulation of Light with Intuitive Dial Operation

EF-60

GFX 160  FLR 1/1000 sec. 400 ISO  Leo Pan/Shine

EF-60

3:14  PLA 1/30 sec. 100 ISO  Joannas Tverdovskaya/Belgium
Remote Release

Stereo Microphone

MIC-ST1

Allows users to set the microphone while checking the lens motor on the camera. It features a 2.0 mm jack and can be fitted with a custom adapter to connect to supported X series models.

*The included adapter is required to connect the required for camera connection.

Hand Grip

Enhanced ergonomic design for horizontal shooting. The camera’s battery or EIB card can be replaced without having to remove the hand grip. The hand grip’s Arca Swiss plate can be used for quick release with compatible tripods.

Leather Case

BLC-XE3

This hard case, specifically designed for the XE3, is made from genuine leather for a luxury feel and has a concealed grip for a solid hold. There is access to the SD card and battery without removing the camera from the case, which comes supplied with a carrying strap for the camera.

Others

Body Cap

LC-3000B

Lens Front Caps

LC-100-B

Lens Rear Cap

LC-100-B

Others

Software

FUJIFILM X RAW STUDIO

 FUJIFILM’s own RAW processing software. It uses the camera’s built-in processing engine ‘X Processor Pro’ for fast RAW development, and provides a RAW processing environment optimized for the X format, e.g. color reproduction and film simulation modes.

FUJIFILM X Webcam

Once an X Webcam supported camera is connected to Mac or PC via a USB cable, the FUJIFILM X Webcam allows users to record a web-conferencing environment with much higher image quality.

RAW File Converter EX 3.0 powered by SILKYPIX

Free RAW processing software. You can select a Film Simulation mode of your choice during RAW processing to apply the effect.

FUJIFILM Tether Shooting Plug-in 2018/19

The Plug-in realizes tether shooting function for Lightroom Classic with the compatible FUJIFILM camera. Once the compatible camera is connected to Mac or PC via a USB cable, the plug-in allows users to import captured images directly to Lightroom Classic.

In addition to features of “Tether Shooting Plug-in”, “Tether Shooting Plug-in PRO” has Control Panel which can check captured image and capture camera. The Control Panel allows users to check shooting condition with LCD Display to set shooting conditions from computer to operate interval/burst/shooting and to back screw all the camera settings.

Capture One Pro/Express FUJIFILM

The Plug-in realizes tether shooting function for Lightroom Classic with the compatible FUJIFILM camera. Once the compatible camera is connected to Mac or PC via a USB cable, the plug-in allows users to import captured images directly to Lightroom Classic. The Plug-in realizes tether shooting function for Lightroom Classic with the compatible FUJIFILM camera. Once the compatible camera is connected to Mac or PC via a USB cable, the plug-in allows users to import captured images directly to Lightroom Classic.
Technology < Optics >

All-Lens-Group (ALG) Focusing

Adoption of the ALG focusing approach of moving all lens groups together minimizes aberrations and distortions due to the focus position and maximizes lens performance across the focus drive range. Because there is no change in the relative position of the lens groups during focusing, the in-focus plane is sharp and the description of the out-of-focus plane does not change, which means no degradation of the bokeh effect due to the focus distance. This lens design approach requires moving many lens groups and consequently a powerful driving mechanism. XF lenses adopt a high-speed DC motor for exceptionally responsive performance.

Inner Focusing

Because the weight of the elements within a lens affects the lens speed; it makes sense for them to be as light as possible. In the zoom lenses, XF24mmF2.8 R, and XF16-55mmF2.8 R, an internal focusing method is used to provide high-speed auto focus, moving the relatively small and light-weight lens elements installed from the center to the back of the lens, to bring the subject rapidly into focus.

Floating Focusing

High image quality throughout the focus range. The Floating Focus System is designed to deliver high image quality throughout the focus range. It uses two focus groups that work in conjunction with each other depending on the focusing distance to correct various aberrations.

Aspherical Lens

Aspherical lenses eliminate and correct aberrations to deliver premium image quality. A single aspherical lens has the effect of multiple spherical lenses, thereby reducing the total number of elements and enabling the development of more compacted lenses. XF/XC lenses contain aspherical lenses along with other glass elements molded in a precise metal die. This enables high-performance lens coatings to be added, such as HT-EBC, that combat flare and ghosting.

ED / Super ED Lens

In the case of conventional optical glass lenses, the longer the focal length, the more difficult correction of chromatic aberration becomes. Color filtering results from light rays of different wavelengths focusing at different points. The solution is to use low dispersion glass which has different dispersion characteristics from conventional optical glass. It can correct various aberrations, produce color filtering-free quality from edge to edge, and achieve sharp high contrast descriptive performance. ED glass lenses have superb characteristics, but their manufacture is extremely difficult, and the larger the diameter of the lens, the higher the precision of processing (polishing) technology that is demanded. The same advanced polishing technology that produces the ultra-large-scale ED glass lens elements used in acclaimed Fujinon broadcast lenses is also used to create the premium XF lens.

< Coating & Glass >

HT-EBC (High Transmittance Electron Beam Coating)

HT-EBC (High Transmittance Electron Beam Coating) is the multi-layer coating technology developed to enhance the many high-performance lens elements used in broadcast lenses. Lenses with HT-EBC boast a high transmittance (99.8%) and low reflectivity (0.2%) over a broad wavelength band and deliver uniform performance that extends to light in the visible spectrum. This high transmittance rate enables the transmission of reds, blues and other light that dramatically influence photographic expression to the sensor surface. Thanks to the excellent applicability of the process, the outer lens surface can be treated with highly durable HT-EBC, realizing high-edge-to-edge transmittance. XF lenses treated with HT-EBC are also highly resistant to dust and flap and glare caused by stray light. For photographers, this advanced coating technology means more freedom in selecting angles and composing the shot.

Nano GI Coating

A new generation of coating technology that reduces reflected light by placing cone-shaped "bowshaped" nanoparticles, smaller than the wavelength of visible light, over the lens surface in a node-eye structure. The technology seamlessly adjusts the difference in the refraction index between air and glass to prevent reflections and produce clear images with reduced flare and ghosting. The use of an index-matching layer further enhances the coating's effect. This can be applied to a diverse range of glass materials with low to high refractive indices.

APD Filter

An optical filter that reduces the amount of light passing through the perimeter of the lens to create silky bokeh effects. Light-absorbing nanoparticles are synthesized on thin film to create a compact and lightweight APD filter offering optimum graduation from the perimeter to the center of an image. This filter has been introduced to the 56mm F1.2 R APD ahead of others in the lineup.

Making Sense of Lens names

To tell what a lens does and how it will help your photography, just look at the letters and numbers in its name. They have the following meanings:

- "F" indicates a fixed focal length lens.
- "D" indicates a zoom lens that covers numerous focal lengths. (e.g., The XF 35mm F2.8 R WR covers from 35mm to 70mm when set to a focal length of 35mm.)
- "LM" indicates that it is a lens made using Fujinon’s exclusive Lens Manufacturing Technology.
- "WR" indicates that the lens is waterproof.
- "OD" indicates that the lens is dust and moisture resistant.
- "AP" indicates the use of an Optical Image Stabilizer.
- "F" indicates the use of an Optical Image Stabilizer.
- "PF" indicates the use of a Power Focus.
- "R LM" indicates that the lens is covered by Fujinon’s exclusive Lens Manufacturing Technology. (e.g., The XF 35mm F2.8 R WR covers from 35mm to 70mm when set to a focal length of 35mm.)
- "OD" indicates that the lens is dust and moisture resistant.
- "AP" indicates the use of an Optical Image Stabilizer.
- "PF" indicates the use of a Power Focus.
- "F" indicates the use of an Optical Image Stabilizer.
- "R LM" indicates that the lens is covered by Fujinon’s exclusive Lens Manufacturing Technology.
Technology < Drive & Control >

Image Stabilization

Fujifilm’s image stabilization technology boasts the world’s best performance, equivalent to over 5 steps (based on CIPA standards). It uses a high-precision, gyro sensor with quartz oscillators for advanced signal-detection performance. Fujifilm’s unique Drift Tracking technology, which extracts only the camera shake elements of detected signals, enables the correction of low-frequency camera shake that occurs at slow shutter speeds.

* GIFs refer to high-frequency signals that occur with a gyro sensor and conditions that require the detection of camera shake signals.

LM (Linear Motor)

The Linear Motor technology, which directly moves lens elements in the non-contact state, enables silent operation and excellent response. XF16-55mm F2.8-4 R LM OIS and XF55-200mm F3.5-4.8 R LM OIS incorporate the Linear Motor technology into the focusing unit and image stabilization unit to achieve high-speed and high-precision focusing as well as advanced image stabilization. With excellent energy efficiency, the technology demonstrates its strong benefit in video recording and other shooting conditions that involve constant lens movements.

Triple Linear Motor

The Triple Linear Motor system is a new technology involving three actuators, positioned at 120 degree intervals on the optical axis, to obtain silent operation and excellent response in large-diameter lenses. Since the actuators are positioned to form an equilateral triangle around the lens’s center of balance, the drive unit’s center of balance matches the point of force. The minimal drive load and outstanding torque deliver rapid movement of lens elements in large lenses.

Quad Linear Motor

Powerful motor delivers exceptional focusing performance. This newly-developed motor uses four magnets in the focus unit to ensure the XF90mm works quickly, quietly and accurately. The smooth operation is achieved by matching the emphasis of the actuator, the gravity point of the drive unit, and the center of the guide axis that supports the focus unit.

Stepping Motor

Improving autofocus, the stepping motor turns one step per pulse allowing a high level of control, and because it directly drives the focus lens without using a gear, it is silent and more suitable for movie shooting. The simple structure also helps downsize the focus unit. The AF drive system of the XF 16-45mm F4 R OIS, XC 16-50mm F3.5-5.6 OIS and XC 70-230mm F4.5-6.7 OIS lenses all adopt the stepping motor.

Circular Aperture

The beautiful bokeh effect of the XF/XC lens is a reflection of Fujifilm’s unique control of the diaphragm blades. The aperture consists of multiple diaphragm blades, which usually have an identical radius (R_value).

1/3-Step Aperture Ring

For photographers who are particular about even the slightest difference in exposure and depth of the field, XF lenses let you adjust the aperture in steps of 1/3 EV. These tiny increments on a relatively small diameter lens mean that the rotation angle for each step is very small; consequently, there is a need for clear tactile confirmation of how much the aperture is adjusted as the user rotates the ring. XF lenses adopt a rotation angle of 4 degrees per 1/3 step. Each full step also gives a stronger clicking sensation than that of 1/3 steps, so you can feel how much the aperture is adjusted while keeping your eye on the viewfinder. Also in the case of the zoom lens with an aperture ring, adjusting the setting of a fairly large rotation angle of 8 degrees per 1/3 step lets you shift from maximum to minimum aperture in one simple action.

Metal Lens Barrel & Exterior Finish

The XF lenses embody premium quality. The lens barrel and exterior elements are made of high-quality aluminum. Especially the finely machined rings are individually milled from a solid metal block, and every detail of every part is carefully finished to ensure comfort of operation and consistently high quality. When mounted on the body, the balance, appearance and even the way it feels when held get a shot are designed to multiply the pleasure of photography.

Weather Resistance / Dust Resistance / Freeze Resistance

The lens barrel is sealed at various points to enhance its lighttightness and prevent dust and water ingress. The XF16-140mm F3.5-5.6 R LM OIS features a design that absorbs the temperature difference between the outer and inner parts of the lens to minimize the impact on optical parts and also uses electronic parts that guarantee operation in low temperatures down to -10°C.

AF/MF Switch Mechanism with Distance Index

The XF14mm F2.8 R and XF23mm F1.4 R lenses have an AF/MF switch mechanism, which allows manual focusing using the lens’s distance index and depth-of-field scales by moving the focus ring back and forth. Additionally, all 5-AF/MF stand-by MF mode, which allows fine adjustment using the focus ring after autofocusring without having to switch focus modes, will be available for all the XF lenses.

X-Mount

X-Mount adopted its high optical design flexibility owing to its short flange-back distance and wide opening, thus achieving high resolution all the way to the edge of the image. Moreover, X Mount features 10 contact pins for communication of the unique optical profile of the mounted lens and other data to the camera body and for electronic control of the lens. Referring these data, the camera body can perform optimum image processing and produce images with enhanced resolution and an improved SN ratio.
### Specification

<table>
<thead>
<tr>
<th>Model Configuration</th>
<th>Front Length (mm)</th>
<th>Rear Diameter (mm)</th>
<th>Max Aperture</th>
<th>Angle of View</th>
<th>Focal Length (mm)</th>
<th>Lens Elements</th>
<th>Aperture Control Range</th>
<th>Macro</th>
<th>Magnification</th>
<th>External Dimensions (W x H x D, mm)</th>
<th>Min.</th>
<th>Max.</th>
<th>Accessory</th>
<th>Notes</th>
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</thead>
<tbody>
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<td>47.7</td>
<td>69.4</td>
<td>8.0</td>
<td>56.8°</td>
<td>158.8 mm</td>
<td>10 elements in 7 groups (including 3 sapphire elements)</td>
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<td>59.1</td>
<td>78.0</td>
<td>8.0</td>
<td>56.8°</td>
<td>174.0 mm</td>
<td>8 elements in 6 groups (including 3 sapphire elements)</td>
<td>1:5.6 - 1:16</td>
<td>66.5 x 68.0 x 72.0</td>
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<td>-</td>
<td>119.0 x 72.0 x 138.5 mm</td>
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<td>158.8 mm</td>
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<td>66.5 x 68.0 x 72.0</td>
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* Based on 35 mm standard with 60-200mm mirrorless digital cameras, at 105 mm.
### Specification

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<td><strong>Focal Length</strong></td>
<td><strong>Max Aperture</strong></td>
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<td>20 elements in 11 groups (includes 18 spherical and 2 aspheric)</td>
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<td>-54.8 x 44.7mm (54.8 x 44.7mm)</td>
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<td>19 elements in 14 groups (includes 10 spherical and 4 aspheric elements)</td>
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*Based on 24x36 format with 5x5Mpixel mirrorless digital camera, 1:1.8, f/4.*