X-H1
SHOOTING MOMENTS, MAKING STORIES.

X-Pro2
Offers the world’s only Hybrid Multi Viewfinder and features a brand new 24MP X-Trans III sensor.

- X-Trans™ CMOS III sensor & X-Processor Pro
- Advanced Hybrid Multi Viewfinder
- 15000 sec. Mechanical Shutter
- Weather resistant structure

*“X-Trans” is a trademark or registered trademark of FUJIFILM Corporation
X100F
THE ORIGIN
X100’s Brave New World

Advanced Hybrid Viewfinder
23mm F2 wide angle prime lens with Leaf Shutter

Electronic Shutter 1/2000 sec., Remote Shooting from your smartphone

XF10
Find new life

4K Video, 24 frames/second, high-quality audio
Remote Control Function

"X" is a trademark or registered trademark of FUJIFILM Corporation.
XF14mm F2.8 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 19cm also enables close-up shots. Plus, the distance indicator and depth-of-field scale for prefocusing in MF mode mean it’s great for quick snapshots, too.

XF16mm F2.8 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 135g and weather resistant.

XF16mm F1.4 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 36cm, high-speed auto-focus, 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.
XF18mm F2 R

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 snapshot and, by virtue of the 18mm minimum focusing distance, close-ups. The outstanding sharpness, combined with the maximum aperture of F2 for silky bokeh also makes it suitable for portraiture; the lens’s small size means your subjects won’t feel intimidated.

XF23mm F1.4 R

A fast aperture lens the 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 350g. It is also ideal for portraits with smooth bokeh, hand-held 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.
Expanding the compact, lightweight, stylish and high-performance lenses for the X Series

The XF23mmF2 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 as the existing XF35mmF2 already released 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 refers only to a fluid angle in response to an electrical pulse signal and is used to position focusing.

Klaus Bo / Denmark

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 8 elements in 6 groups, including two aspherical elements, 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 scene and application, this is the new standard lens for all photography fans.

Max De Martino / Italy

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 59mm in the 35mm film format, it is a must-have optic for all X-Series owners.

Max Gade / Sweden

XF27mmF2.8

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. AF 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.

Knut Koliviste / Sweden
**XF50mmF2 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 an aspherical IR lens, and has an inner focusing system, driven by a stepping motor for fast and silent auto-focusing. Metal parts are used extensively on the mount 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 in temperatures as low as -10°C, making it ideal for shooting in a variety of conditions.

**XF60mmF2.4 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 line-up. As well as being perfect for close-ups, it can also be used for many other medium telephoto applications, with the 2.4 maximum aperture delivering smooth bokeh.

**XF56mmF1.2 R APD / XF56mmF1.2 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 aspherical (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.

**XF80mmF2.8 R LM OIS WR Macro**

1.0x 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 Extra 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.
XF200mm F2 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 XF200mm F2 R LM OIS WR is the first super-telephoto lens in the XF lens lineup, offering a fast maximum aperture of 2.0 and a focal 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. 1.5m, the lens is compact, portable and offers a wide shooting range from 0.8m 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.

X-T1: F2 1/8000 sec., ISO 6400

Pal Lauth / Norway
XF8-16mm F2.8 R LM WR

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

The lens’ outstanding edge-to-edge image-reproducing 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.

XF16-55mm F2.8 R LM WR

Offering image quality, versatility and reliability, this is the perfect standard zoom lens.

A premium lens that combines the convenience of a zoom with image quality on par with prime lenses. Featuring a maximum aperture of F2.8 across its zoom range, it delivers edge-to-edge sharpness, even on the wide angle end. The newly-developed Nano GR coating controls ghosting and flare, while the focal lengths equivalent to 24mm to 84mm in the 35mm film format cover a wide range of shooting options, including landscapes and portraits. Furthermore, the dust-resistant, splash-resistant and low-temperature resistant design means it can be relied on to produce great results in a wide range of conditions.

Daniel Malnayer / UK

XF10-24mm F4 R OIS

An ultra-wide angle to wide angle zoom, ideally suited to indoor shoots and any situation where space is tight.

An ultra-wide angle zoom offering a 90 degree* horizontal field of view and covering focal lengths equivalent to 15 to 36mm in the 35mm film format. The 10mm setting is perfect for indoor shots when you cannot move very far from your subject, plus its powerful power also makes it the perfect lens to capture vast wilderness or architecture. The 24mm setting is great for portraits and general snapshot photography.

LS Trung / Vietnam
**XF50-140mm F2.8 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 portraits, 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.

**XF16-80mm F4 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.
XF18-55mm F2.8-4 R LM OIS

A compact, lightweight standard zoom lens covering a popular focal range.

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.

XF55-200mm F3.5-4.8 R LM OIS

Bring your subjects closer with this highly portable telephoto zoom.

This telephoto zoom covers focal lengths equivalent to 84mm to 300mm in the 35mm film format and has a fast aperture of F3.5 to F4.8 despite its portable size. Optically, it uses a Super ED lens element, which is comparable to a fluorite lens, to thoroughly eliminate chromatic aberration and deliver outstanding picture quality. Sharp and clear images are obtained throughout its zoom range, even with the aperture wide open. The INNOCRIC zooming maintains strong contrast even against backlight, while the image stabilization function – equivalent to 4.5 shutter speed stops – and fast autofocus with the linear motor ensure shooting is quick and easy.

XC15-45mm F3.5-5.6 OIS PZ

Minimal and lightest as the interchangeable zoom lens for "X series".

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

XC50-230mm F4.5-6.7 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 76mm 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 maintains camera shake. The use of a stepper motor ensures 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 152 - 609mm (35mm format equivalent). To minimize the color aberration, a typical problem for a telephoto lens, the optical construction comprises 24 elements in 14 groups with 5 ED Lens and 1 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 1.4kg. In addition to the weather- and dust-resistant, and -10°C low-temperature operation construction, the front element is applied with water and dirt repellent coating to make the lens even tougher.

XF100-400mm F4.5-5.6 R LM OIS WR

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 the 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.

- **XF1.4X TC WR**
  - Approx. φ50mm x 115mm
  - Compatible with: 18mm, 23mm, 35mm, 55mm, 33mm, 35mm, 56mm, 70mm, 100mm, 120mm, 140mm, 200mm

- **XF1.4X TC F2 WR**
  - Approx. φ50mm x 115mm
  - Compatible with: 18mm, 23mm, 35mm, 55mm, 33mm, 35mm, 56mm, 70mm, 100mm, 120mm, 140mm, 200mm

- **XF2X TC WR**
  - Approx. φ50mm x 115mm
  - Compatible with: 18mm, 23mm, 35mm, 55mm, 33mm, 35mm, 56mm, 70mm, 100mm, 120mm, 140mm, 200mm

**Tele Conversion Lens**

**Wide Conversion Lens**

**M Mount Adapter**

The M Mount adapter lets you use an incredibly wide selection of lenses with an X Mount-camera 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 create a high-quality 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 case of the X-Pro1, the bright frame in the Optical Viewfinder mode changes according to the lens focal length setting for easy shooting.*2

**Macro Extension Tube**

Fits between camera body and interchangeable lens to enable macro photography at a higher magnification ratio. Available in 15mm 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/](http://www.zeiss.com/)
Shoe Mount Flash
Expression of Light

**EF-X500**
High Speed Sync & Multi Flash Lighting Compatibility

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

**EF-20**
**EF-42**
Expand the Boundary with Tiltalbe Head
Remote Release

Stereo Microphone

MIC-ST1
Allows users to set the microphone level while checking the level meter on the camera. It features a 1.2mm jack and can be fitted with a custom/adapter to connect to supported X-Files products. The included adapter is recommended to suit the terminal for camera connection.

Leather Case

BLC-XT3
Genuine premium leather lens case. The camera can stop in the case while the battery is replaced. Compatible with X-Files

BLC-XT2
This half case, specifically designed for the X-Files 1, can be made of genuine leather for a more textured feel. Users can access the SD slot and battery without removing the camera from the case. It comes with a shoulder strap and a leather case to carry your camera when putting it in a bag.

S-1000F

BLC-XM1/BLC-XT10
This half case, specifically designed for the X-Files 10, can be made of genuine leather for a more textured feel. Users can access the SD slot and battery without removing the camera from the case.

BLC-X70
Enhances the style and grip on the camera, while keeping it protected from scratches. Hand strap and grip case included. Compatible with X-Files

Protector Filter

A clear protection filter with a transmittance rate of only 1.8%. The thin, multi-layer Super EBC coating protects the lens surface without compromising the colour reproduction performance.

RAW processing

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 Series, e.g. color reproduction using Film Simulation modes.

RAW FILE CONVERTER EX 2.6 powered by SILKYPIX
Free RAW processing software. You can select a Film Simulation mode of your choice during RAW processing to apply the effect.

Adobe® Photoshop® Lightroom®
Software that facilitates efficient adjustment and editing. Film simulation effects can also be applied to your images in the software.

Others

VGB-100
Luna Head Cap for 10mm

VGB-200
Luna Head Cap for 20mm

VGB-300
Luna Head Cap for 30mm

VGB-400
Luna Head Cap for 40mm

VGB-500
Luna Head Cap for 50mm

VGB-600
Luna Head Cap for 60mm

VGB-700
Luna Head Cap for 70mm

VGB-800
Luna Head Cap for 80mm

VGB-900
Luna Head Cap for 90mm

VGB-1050
Luna Head Cap for 105mm

VGB-1200
Luna Head Cap for 120mm

VGB-1400
Luna Head Cap for 140mm

VGB-1600
Luna Head Cap for 160mm

VGB-1800
Luna Head Cap for 180mm

VGB-2000
Luna Head Cap for 200mm

VGB-2300
Luna Head Cap for 230mm

VGB-2600
Luna Head Cap for 260mm

VGB-3000
Luna Head Cap for 300mm

VGB-3500
Luna Head Cap for 350mm

VGB-4000
Luna Head Cap for 400mm

VGB-5000
Luna Head Cap for 500mm

VGB-5500
Luna Head Cap for 550mm

VGB-6000
Luna Head Cap for 600mm

VGB-7000
Luna Head Cap for 700mm

VGB-8000
Luna Head Cap for 800mm

VGB-9000
Luna Head Cap for 900mm

VGB-10000
Luna Head Cap for 1000mm

VGB-12000
Luna Head Cap for 1200mm

External Optical Viewfinder

VF-X1i
Compatible with X-Files

Hand Grip

MHG-XPRO2
Compatible with X-Files

MHG-XT3
Compatible with X-Files

MHG-XT10
Compatible with X-Files

MHG-XE3
Compatible with X-Files

V6-XT3
Flexible handling for horizontal and vertical shooting. It holds an additional two batteries, bringing the total number of batteries to four, to increase the maximum number of frames to approx. 1,100 (Normal mode). The grip geometry switches between horizontal while shooting or video recording. Using the AC adapter supplied (AC-5V), you can fully charge the two batteries in the grip in approx. 2 hours.

HG-XM1
Offering an ensured hold while preventing any interference with a tripod head, this grip is ideal when the camera is fitted with a large lens. The tripod mounting socket is aligned with the optical axis and both battery and memory card can be accessed while the grip is in place. Compatible with X-Files.

GB-001
This grip strap gives a more ensured hold when fitted to a camera body. It can be combined with a hand grip to achieve an even higher level of stability.

VBP-XH1
Compatible with X-Files
All-Lens-Group (ALG) Focusing

Adoption of the ALG focusing approach of moving all lens groups together minimizes aberrations and fluctuations 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-torque DC motor for exceptionally responsive performance.

Inner Focusing

Because the weight of the elements within a lens affects auto focus speed, it makes sense for them to be as light as possible. In the zoom lenses, XF28mmF2.8 R LM, and XF16-55mmF2.8 R LM, an internal focusing method is used for high-speed auto focus, moving the relatively small and lightweight 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 compactified lenses. XF/XC lenses contain aspherical lenses along with other glass elements molded into 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 fringing results from light rays of different wavelengths focusing at different points. The solution is a low dispersion glass which has different dispersion characteristics from conventional optical glass. It can correct various aberrations, produce color-fringe-free quality from edge to edge, and achieve high contrast, high definition, and dynamic 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 ED glass lens elements used in acclaimed Fujinon broadcast lenses is also used to create the premium XF lens.

HT-EBC (High Transmittance Electron Beam Coating)

HT-EBC (High Transmittance Electron Beam Coating) is the multi-layer coating technology developed to enhance the high performance and durability of XF lenses. HT-EBC provides high transmittance (99.5%) and low reflectivity (0.1%) 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 red, blue, and other light that dramatically enhance photostatic expression to the camera surface. Thanks to the excellent applicability of the process, the outer lens surface can be treated with highly durable HT-EBC, resulting in high edge-to-edge transmittance. XF lenses treated with HT-EBC are also highly resistant to ghosting and lens flares caused by stray light. For the photographer, 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 "beadlike" nanoparticles, smaller than the wavelength of visible light, over the lens surface in a multi-eye structure. The technology uniformly adjusts the difference in the refraction index between air and glass to prevent reflections and produce clear images with reduced flares 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 perimenter of the lens to create rich bokeh effects. Light-absorbing nanoparticles are synthesized on thin film to create a compact and lightweight APD filter offering optimum gradation from the perimenter 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:

- **R** Old Series lens
- **F** Fixed Close Up / Maximum aperture of the lens
- **OIS** Optical Image Stabilizer
- **WR** Weather Resistant
- **Focal Length**
- **18** 18mm (26mm eq)
- **35** 35mm (52mm eq)
- **56** 56mm (85mm eq)
- **100** 100mm (150mm eq)
- **135** 135mm (210mm eq)
- **24** 24mm (37mm eq)
- **35** 35mm (52mm eq)
- **56** 56mm (85mm eq)
- **100** 100mm (150mm eq)
- **200** 200mm (300mm eq)
- **24-70** 24-70mm (37-105mm eq)
- **200-600** 200-600mm (300-900mm eq)
- **50-140** 50-140mm (75-210mm eq)
- **XC15-45mm** 15-45mm (23-70mm eq)
- **XF60-28mm** 60-28mm (90-42mm eq)
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.

LM (Linear Motor)

The Linear Motor technology, which directly moves lens elements in the non-contact state, enables silent operation and excellent response. XF18-55mm 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-speeds 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 achieve silent operation and excellent response in large-diameter lenses. Since the actuators are positioned to form an equilateral triangle around the lens's centre of balance, the drive unit's center of balance matches the point of force. The minimal drive loss 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 XF50mm 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 a gear, it is silent and more suitable for movie shooting. The simple structure also helps downsizing the focus unit. The AF drive system of the XF 10-24mm F4 R OIS, XC 16-50mm F3.5-5.6 OIS and XC 70-300mm 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 mechanical attention to the shape and the manufacture of the aperture diaphragm blades. The aperture consists of multiple diaphragm blades, which usually have an identical radius (R, angle).

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. 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 you rotate the ring. XF lenses adopt a rotation angle of 4 degrees per 1/3 step. Each full step also gives a stronger click sensation than that of 1/3 steps, so that 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 aperture ring that operates any focal distance setting, the enhancement of the click sensation and the setting of a slightly larger 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 lens embodies 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. Go 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 tightness and prevent dust and water ingress. The XF10-140mm F4 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, an 8-AP/MF switching MF mode, which allows fine adjustment using the focus ring after autofocusing without having to switch focus mode, will be available for all the XF lenses.

X-mount acquired 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. Referencing these data, the camera body can perform optimum image processing and produce images with enhanced resolution and an improved S/N ratio.
### Specification

<table>
<thead>
<tr>
<th>Lens configuration</th>
<th>Front length (mm)</th>
<th>Max. aperture</th>
<th>Aperture control range (mm)</th>
<th>Focal length (mm)</th>
<th>F-number</th>
<th>Magnification</th>
<th>Film format</th>
<th>Max. magnification</th>
<th>Max. magnification</th>
<th>Max. magnification</th>
</tr>
</thead>
<tbody>
<tr>
<td>25mm f/2.8 R</td>
<td>58.9*35.3</td>
<td>f/8</td>
<td>4.8-7.2</td>
<td>85.0</td>
<td>0.71x</td>
<td>0.3x</td>
<td>APS-C</td>
<td>0.71x</td>
<td>0.71x</td>
<td>0.3x</td>
</tr>
<tr>
<td>35mm f/2 R WR</td>
<td>69.2*44.2</td>
<td>f/4.5</td>
<td>5.7-7.4</td>
<td>87.0</td>
<td>0.2x</td>
<td>0.13x</td>
<td>APS-C</td>
<td>0.2x</td>
<td>0.2x</td>
<td>0.13x</td>
</tr>
<tr>
<td>50mm f/2.8 R</td>
<td>83.2*61.4</td>
<td>f/6.7</td>
<td>6.9-9.0</td>
<td>125.0</td>
<td>0.18x</td>
<td>0.13x</td>
<td>Full Frame</td>
<td>0.18x</td>
<td>0.18x</td>
<td>0.13x</td>
</tr>
<tr>
<td>70mm f/2.8 R WR</td>
<td>91.2*69.7</td>
<td>f/5.6</td>
<td>7.0-10.0</td>
<td>186.0</td>
<td>0.18x</td>
<td>0.13x</td>
<td>APS-C</td>
<td>0.18x</td>
<td>0.18x</td>
<td>0.13x</td>
</tr>
<tr>
<td>90mm f/2.8 R</td>
<td>121.0*101.0</td>
<td>f/6.3</td>
<td>7.1-10.0</td>
<td>225.0</td>
<td>0.18x</td>
<td>0.13x</td>
<td>APS-C</td>
<td>0.18x</td>
<td>0.18x</td>
<td>0.13x</td>
</tr>
<tr>
<td>25mm f/2.8 R</td>
<td>50.0*32.5</td>
<td>f/6.3</td>
<td>4.8-7.2</td>
<td>85.0</td>
<td>0.71x</td>
<td>0.3x</td>
<td>APS-C</td>
<td>0.71x</td>
<td>0.71x</td>
<td>0.3x</td>
</tr>
<tr>
<td>35mm f/2 R WR</td>
<td>69.2*63.1</td>
<td>f/6.3</td>
<td>5.7-7.4</td>
<td>87.0</td>
<td>0.2x</td>
<td>0.13x</td>
<td>APS-C</td>
<td>0.2x</td>
<td>0.2x</td>
<td>0.13x</td>
</tr>
<tr>
<td>50mm f/2.8 R</td>
<td>83.2*50.5</td>
<td>f/6.3</td>
<td>6.9-9.0</td>
<td>125.0</td>
<td>0.18x</td>
<td>0.13x</td>
<td>Full Frame</td>
<td>0.18x</td>
<td>0.18x</td>
<td>0.13x</td>
</tr>
<tr>
<td>70mm f/2.8 R WR</td>
<td>91.2*69.7</td>
<td>f/5.6</td>
<td>7.0-10.0</td>
<td>186.0</td>
<td>0.18x</td>
<td>0.13x</td>
<td>APS-C</td>
<td>0.18x</td>
<td>0.18x</td>
<td>0.13x</td>
</tr>
<tr>
<td>90mm f/2.8 R</td>
<td>121.0*101.0</td>
<td>f/6.3</td>
<td>7.1-10.0</td>
<td>225.0</td>
<td>0.18x</td>
<td>0.13x</td>
<td>APS-C</td>
<td>0.18x</td>
<td>0.18x</td>
<td>0.13x</td>
</tr>
<tr>
<td>25mm f/2.8 R</td>
<td>50.0*32.5</td>
<td>f/6.3</td>
<td>4.8-7.2</td>
<td>85.0</td>
<td>0.71x</td>
<td>0.3x</td>
<td>APS-C</td>
<td>0.71x</td>
<td>0.71x</td>
<td>0.3x</td>
</tr>
<tr>
<td>35mm f/2 R WR</td>
<td>69.2*63.1</td>
<td>f/6.3</td>
<td>5.7-7.4</td>
<td>87.0</td>
<td>0.2x</td>
<td>0.13x</td>
<td>APS-C</td>
<td>0.2x</td>
<td>0.2x</td>
<td>0.13x</td>
</tr>
<tr>
<td>50mm f/2.8 R</td>
<td>83.2*50.5</td>
<td>f/6.3</td>
<td>6.9-9.0</td>
<td>125.0</td>
<td>0.18x</td>
<td>0.13x</td>
<td>Full Frame</td>
<td>0.18x</td>
<td>0.18x</td>
<td>0.13x</td>
</tr>
<tr>
<td>70mm f/2.8 R WR</td>
<td>91.2*69.7</td>
<td>f/5.6</td>
<td>7.0-10.0</td>
<td>186.0</td>
<td>0.18x</td>
<td>0.13x</td>
<td>APS-C</td>
<td>0.18x</td>
<td>0.18x</td>
<td>0.13x</td>
</tr>
<tr>
<td>90mm f/2.8 R</td>
<td>121.0*101.0</td>
<td>f/6.3</td>
<td>7.1-10.0</td>
<td>225.0</td>
<td>0.18x</td>
<td>0.13x</td>
<td>APS-C</td>
<td>0.18x</td>
<td>0.18x</td>
<td>0.13x</td>
</tr>
</tbody>
</table>

* Based on 24x36 mm standard with 6.1x8.6 mm micro 4/3 sensor, at ISO-100.
<table>
<thead>
<tr>
<th>Specification</th>
<th>Lens configuration</th>
<th>Focal length (mm)</th>
<th>Maximum aperture</th>
<th>Aperture control number of blades</th>
<th>Angle of view</th>
<th>Focal length (mm)</th>
<th>Maximum aperture</th>
<th>Aperture control number of blades</th>
<th>Angle of view</th>
<th>Focal length (mm)</th>
<th>Maximum aperture</th>
<th>Aperture control number of blades</th>
<th>Angle of view</th>
<th>Focal length (mm)</th>
<th>Maximum aperture</th>
<th>Aperture control number of blades</th>
<th>Angle of view</th>
</tr>
</thead>
<tbody>
<tr>
<td>EF 50mm f/1.2 L USM</td>
<td>20 elements, 19 groups, 126 elements, 126 elements</td>
<td>50</td>
<td>f/1.2</td>
<td>9 blades</td>
<td>78°</td>
<td>70</td>
<td>f/1.2</td>
<td>9 blades</td>
<td>78°</td>
<td>70</td>
<td>f/1.2</td>
<td>9 blades</td>
<td>78°</td>
<td>70</td>
<td>f/1.2</td>
<td>9 blades</td>
<td>78°</td>
</tr>
<tr>
<td>EF 100mm f/2.8 L IS USM</td>
<td>14 elements, 13 groups, 118 elements, 129 elements</td>
<td>100</td>
<td>f/2.8</td>
<td>9 blades</td>
<td>74°</td>
<td>70</td>
<td>f/2.8</td>
<td>9 blades</td>
<td>74°</td>
<td>70</td>
<td>f/2.8</td>
<td>9 blades</td>
<td>74°</td>
<td>70</td>
<td>f/2.8</td>
<td>9 blades</td>
<td>74°</td>
</tr>
<tr>
<td>EF 135mm f/2.8 L IS USM</td>
<td>7 elements, 6 groups, 108 elements, 110 elements</td>
<td>135</td>
<td>f/2.8</td>
<td>9 blades</td>
<td>72°</td>
<td>70</td>
<td>f/2.8</td>
<td>9 blades</td>
<td>72°</td>
<td>70</td>
<td>f/2.8</td>
<td>9 blades</td>
<td>72°</td>
<td>70</td>
<td>f/2.8</td>
<td>9 blades</td>
<td>72°</td>
</tr>
<tr>
<td>EF 180mm f/3.5 L IS USM</td>
<td>5 elements, 4 groups, 108 elements, 110 elements</td>
<td>180</td>
<td>f/3.5</td>
<td>9 blades</td>
<td>66°</td>
<td>70</td>
<td>f/3.5</td>
<td>9 blades</td>
<td>66°</td>
<td>70</td>
<td>f/3.5</td>
<td>9 blades</td>
<td>66°</td>
<td>70</td>
<td>f/3.5</td>
<td>9 blades</td>
<td>66°</td>
</tr>
<tr>
<td>EF 24mm f/2.8 L IS USM</td>
<td>25 elements, 24 groups, 200 elements, 201 elements</td>
<td>24</td>
<td>f/2.8</td>
<td>10 blades</td>
<td>90°</td>
<td>70</td>
<td>f/2.8</td>
<td>10 blades</td>
<td>90°</td>
<td>70</td>
<td>f/2.8</td>
<td>10 blades</td>
<td>90°</td>
<td>70</td>
<td>f/2.8</td>
<td>10 blades</td>
<td>90°</td>
</tr>
<tr>
<td>EF 35mm f/1.4 L USM</td>
<td>18 elements, 17 groups, 196 elements, 197 elements</td>
<td>35</td>
<td>f/1.4</td>
<td>10 blades</td>
<td>77°</td>
<td>70</td>
<td>f/1.4</td>
<td>10 blades</td>
<td>77°</td>
<td>70</td>
<td>f/1.4</td>
<td>10 blades</td>
<td>77°</td>
<td>70</td>
<td>f/1.4</td>
<td>10 blades</td>
<td>77°</td>
</tr>
<tr>
<td>EF 50mm f/1.2 L USM</td>
<td>20 elements, 19 groups, 126 elements, 126 elements</td>
<td>50</td>
<td>f/1.2</td>
<td>9 blades</td>
<td>78°</td>
<td>70</td>
<td>f/1.2</td>
<td>9 blades</td>
<td>78°</td>
<td>70</td>
<td>f/1.2</td>
<td>9 blades</td>
<td>78°</td>
<td>70</td>
<td>f/1.2</td>
<td>9 blades</td>
<td>78°</td>
</tr>
<tr>
<td>EF 100mm f/2.8 L IS USM</td>
<td>14 elements, 13 groups, 118 elements, 129 elements</td>
<td>100</td>
<td>f/2.8</td>
<td>9 blades</td>
<td>74°</td>
<td>70</td>
<td>f/2.8</td>
<td>9 blades</td>
<td>74°</td>
<td>70</td>
<td>f/2.8</td>
<td>9 blades</td>
<td>74°</td>
<td>70</td>
<td>f/2.8</td>
<td>9 blades</td>
<td>74°</td>
</tr>
<tr>
<td>EF 135mm f/2.8 L IS USM</td>
<td>7 elements, 6 groups, 108 elements, 110 elements</td>
<td>135</td>
<td>f/2.8</td>
<td>9 blades</td>
<td>72°</td>
<td>70</td>
<td>f/2.8</td>
<td>9 blades</td>
<td>72°</td>
<td>70</td>
<td>f/2.8</td>
<td>9 blades</td>
<td>72°</td>
<td>70</td>
<td>f/2.8</td>
<td>9 blades</td>
<td>72°</td>
</tr>
<tr>
<td>EF 180mm f/3.5 L IS USM</td>
<td>5 elements, 4 groups, 108 elements, 110 elements</td>
<td>180</td>
<td>f/3.5</td>
<td>9 blades</td>
<td>66°</td>
<td>70</td>
<td>f/3.5</td>
<td>9 blades</td>
<td>66°</td>
<td>70</td>
<td>f/3.5</td>
<td>9 blades</td>
<td>66°</td>
<td>70</td>
<td>f/3.5</td>
<td>9 blades</td>
<td>66°</td>
</tr>
<tr>
<td>EF 24mm f/2.8 L IS USM</td>
<td>25 elements, 24 groups, 200 elements, 201 elements</td>
<td>24</td>
<td>f/2.8</td>
<td>10 blades</td>
<td>90°</td>
<td>70</td>
<td>f/2.8</td>
<td>10 blades</td>
<td>90°</td>
<td>70</td>
<td>f/2.8</td>
<td>10 blades</td>
<td>90°</td>
<td>70</td>
<td>f/2.8</td>
<td>10 blades</td>
<td>90°</td>
</tr>
<tr>
<td>EF 35mm f/1.4 L USM</td>
<td>18 elements, 17 groups, 196 elements, 197 elements</td>
<td>35</td>
<td>f/1.4</td>
<td>10 blades</td>
<td>77°</td>
<td>70</td>
<td>f/1.4</td>
<td>10 blades</td>
<td>77°</td>
<td>70</td>
<td>f/1.4</td>
<td>10 blades</td>
<td>77°</td>
<td>70</td>
<td>f/1.4</td>
<td>10 blades</td>
<td>77°</td>
</tr>
</tbody>
</table>

* Based on 50mm standard with a 60mm lens with an 18mm wide angle.