Digital Eyes

Floating Element Assembly
Aluminum Alloy Die-Cast Model
Flexible printed circuit board
SD (Super Low Dispersion) Glass
VISIONARY TECHNOLOGY MAKES A DIFFERENCE YOU CAN SEE.

Tokina’s proprietary AT-X technology has been evolving toward optical perfection for more than 30 years.

Since our mission began in 1981 we have made continuous advances. Each new model is a further refinement in a continuing legacy of excellence in design and materials. The current AT-X PRO series continues this evolution of excellence by using the most state-of-the-art technology anywhere.

More Quality Than Meets The Eye.

The Tokina difference comes from special material selection and assembly technology that employs micron-unit quality control. This ensures optimum consistency while maintaining the highest quality for every lens. Worldwide, both professionals and knowledgeable photography enthusiasts rely on Tokina lenses.

AT-X Technology

AT-X comes from our original concept of “Advanced Technology Extra.” This vision encompasses a special group of lenses that are manufactured without compromise, using the most advanced design and fabrication technologies available. The use of unique and unprecedented optical systems independently pioneered by Tokina, has made advanced features, high performance, lightweight, and compact designs a reality. Of course, we have also given full attention to ergonomics and handling. To any user, AT-X means excellent performance through superior technology.

Mechanisms

1. All metallic moving parts are coated with a special lubricant to improve durability.
2. Tokina’s independently developed technology maintains the high precision of mechanical fittings, accurately measured in microns.
3. Micron tolerances also give smooth operation and durability to operating rollers and internal focus cams.
4. Brass is used in the lens mount to maintain high precision. Other mechanisms are plated with hard chrome for optimum durability.

Exterior Finish

1. PRO models have a Anodized Aluminum finish to increase durability and give a top-quality feel and finish.
2. Ergonomic designs emphasize control, grip and ease of operation with textured rubber used on zoom and focus barrels. These are original Tokina materials, designed to give many years of faithful service without deterioration.

Operation

1. Use of our special alloy Duralumin for metal parts provides excellent durability, stabilizes torque and provides better handling. It also maintains smoother operation under all conditions.
2. Our special lubricant is used on moving parts, formulated to perform even under extremes of temperature.

Lens Coatings

Resistance to flare and ghosting, plus faithful color reproduction are all achieved by a unique coating technique – yet another reason for Tokina’s reputation for incredibly sharp and clean images.
The Tokina AT-X 24-70mm F2.8 PRO FX lens gives photographers with full frame Canon and Nikon camera bodies a 24mm wide-angle to 70mm moderate telephoto lens with a fast F2.8 aperture at an affordable price.

The new groundbreaking proprietary optical design uses three precision molded all-glass aspherical lens elements to achieve excellent contrast, sharpness, and corrects for spherical aberrations. One of these elements is very special and difficult to manufacture. G09, is made from Super-Low Dispersion (SD) glass and is a large sized aspherical element.

These lens elements also yield even illumination across the whole image sensor.

The Tokina 24-70mm lens also uses three SD (super-low Dispersion, “FK01” and FK03”) glass elements in the rear groups to control chromatic aberrations.

All these specialized lens elements work in consort to yield maximum resolution to match the 50-megapixel DSLR cameras entering the market.

The fast constant F2.8 aperture makes viewing and auto focusing possible in very low light situations while keeping some flexibility for setting the shutter speed.

In addition to excellent optics, the lens incorporates a fast moving SDM (Silent Drive-Module) motor to greatly reduce AF noise making it one of Tokina’s quickest and quietest auto-focusing lenses to date.

Tokina’s exclusive One-touch Focus Clutch Mechanism allows the photographer to switch between AF and MF simply by snapping the focus ring forward for AF and back toward the lens mount for manual focusing.
Kenko Tokina Co. Ltd. is pleased to announce the new Tokina AT-X 70-200mm F4 PRO FX VCM-S lens featuring a new Vibration Compensation Module and ring-shaped ultrasonic style auto-focus motor. This lens is designed for digital cameras with full sized sensors as well as APS-C (DX) sensors.

The Tokina AT-X 70-200mm lens is the first lens with Tokina’s new proprietary VCM (Vibration Compensation Module). This technology allows for up to 3 stops of vibration compensation* to reduce the affect of camera shake in situations were a tripod or monopod cannot be used.

Additionally the new 70-200 Lens features a complete ring-shaped ultrasonic motor for faster and quieter auto-focus. This new motor allows for the minute adjustments between AF and manual focus modes dramatically increasing operability. The “S” denotes the new ultrasonic motor.

The optical design of this lens has 3 SD (FK01) Super-low Dispersion glass elements to correct for chromatic aberration and maintain heightened optical quality throughout the zoom range.

Tokina’s announcement of the AT-X 70-200 lens expands the lens lineup to include a compact high-performance telephoto zoom lens that has great portability in a professional caliber telephoto lens.

*It depends on CIPA standards.
Wideangle Zoom Lens for Full Frame DSLR Cameras

AF16-28mm F2.8 TO FIT CANON • NIKON-D

AT-X 16-28 PRO FX

This new Tokina lens is the first in a new generation of full frame (FX) lenses designed for professional digital SLR cameras. The 16-28 zoom range gives the professional photographer a super-wide angle of view to get close to subject for dramatic effect or to take in entire scenes.

NEW Silent DC Motor with GMR Sensor
The 16-28 F2.8 uses a newly developed silent DC motor that allows the lens to focus faster and more quietly than previous generations. The DC motor coupled with a new GMR sensor works together to increase AF speed.

Aspherical and Super-low Dispersion Glass Elements
A new, 56mm in diameter, large sizes aspherical glass element is incorporated into the front lens group, while there are 2 more aspherical elements in the rear group. 3 SD super-low dispersion glass elements are also incorporated through-out the optical design to reduce chromatic aberration, give maximum resolution, more even brightness and distortion correction.

One-Touch Focus Clutch
Tokina’s exclusive One-touch Focus Clutch Mechanism allows the photographer to switch between AF and MF simply by snapping the focus ring forward for AF and back toward the camera to focus manually. There is no need to change the AF/MF switch on Nikon camera bodies and there is no second AF/MF switch on the lens for Canon, everything is accomplished by the focus ring.

• 15 Elements in 13 Groups
• Minimum Focus Distance: 0.28m
• Angle of view: 107.11° - 76.87°
• Aperture Blades: 9
• Lens Hood: Built-in
Wideangle Zoom Lens for Full Frame DSLR Cameras

AT-X 17-35 PRO FX

Designed for Full-Frame cameras, the Tokina AT-X 17-35 PRO FX gives photographers a new wide-angle option. With a focal length of 17mm at the wide-side the lens yields a spectacular 103.9 degree field of view which is great for shooting in tight situations or for taking in wide expanses of space.

This compact wide-angle zoom has a bright constant F4 aperture making viewing and auto focus possible in lower light situations but still maintaining a reasonable size and weight.

Two Super-Low Dispersion glass elements and one aspheric lenses allow the proprietary optical design to achieve excellent contrast and sharpness.

Tokina’s exclusive One-touch Focus Clutch Mechanism allows the photographer to switch between AF and MF simply by snapping the focus ring forward for AF and back toward the lens mount for manual focusing.

Additionally the mechanics have been designed for better seals around moving parts making the lens more water-resistant* than lenses of the past. The lens is also designed to stand up to the rigors of daily use by photographers in a wide variety of shooting conditions and environments.

- 13 Elements in 12 Groups
- Minimum Focus Distance: 0.28m
- Angle of view: 103.96° - 64.74°
- Filter size: ø82mm

Lens Hood BH-821
The large BH-821 wide-angle hood with “click-lock” to stay in place.

* The AT-X 17-35 is only water-resistant, not water-proof and is not designed to be submerged or used unprotected in heavy rain.
### AT-X 14-20 F2 PRO DX

**SUPER-WIDE, ULTRA-FAST**

The Tokina AT-X 14-20 F2 PRO DX is a wide-angle zoom lens with super-fast F2 aperture. This is the fastest lens ever made by Tokina. The lens is designed for use with either Canon or Nikon DSLR cameras with APS-C (DX) sensors.

Tokina adds its fastest lens to date to its family of fast-aperture wide-angle zooms focused on providing photographers professional quality optics and construction at an affordable price. The extremely fast F2 aperture lens offers an equivalent 21-30mm** zoom range. The super-bright, constant F2.0 aperture makes viewing, auto focus and shooting possible in very low light situations while still maintaining reasonable size and weight.

The 14-20mm has an all-new proprietary optical design that uses three aspherical lens elements (2 all-glass molded and 1 P-MO lens). This combination achieves superior contrast and sharpness, and corrects for spherical aberrations. Additionally, Tokina uses four SD glass elements (Super-low Dispersion: FK01 and FK03) to control chromatic aberrations, distortion and astigmatism. Two of the elements are SD glass molded aspherical lenses.

Tokina’s exclusive One-Touch Focus Clutch Mechanism allows the photographer to switch between AF and MF simply by snapping the focus ring forward for AF and back toward the lens mount for manual focusing. The lens is also designed to stand up to the rigors of daily use by photographers in a wide variety of shooting conditions and environments.

- 13 Elements in 11 Groups
- Minimum Focus Distance: 0.28m
- Angle of view: 91.68° - 70.75°
- Filter size: ø82mm

**AT-X PRO Series**

- Wideangle Zoom Lens for APS-C Format DSLR Cameras

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**Canon Mount Model**

- Lens Hood BH-823
  - The large BH-823 wide-angle hood with “click-lock” to stay in place.
AF11-20mm F2.8

AT-X 11-20 PRO DX

TO FIT CANON • NIKON-D
APS-C Sized Sensor Model Only

EXPANDED TELEPHOTO ZOOM RANGE
IMPROVED OPTICAL PERFORMANCE

The Tokina AT-X 11-20mm F2.8 PRO DX ultra-wide angle lens features an expanded telephoto zoom range and improved optical performance. The lens is designed for use with Canon and Nikon DSLR cameras with APS-C (DX) sensors.

Tokina adds to its family of fast-aperture wide-angle zooms focused on providing photographers professional quality optics and construction at an affordable price. The fast F2.8 aperture lens offers an equivalent 16.5-30mm* zoom range.

The 11-20mm has a new proprietary optical design that uses three aspherical lens elements (2 all-glass molded and 1 P-MO lens). Three SD (Super-low Dispersion: FK01 and FK03) glass elements achieves superior contrast and sharpness, and corrects for spherical aberrations.

This compact ultra wide-angle zoom lens has a bright, constant F2.8 aperture making viewing and auto focus possible in low light situations but still maintaining portable size and weight.

Tokina’s exclusive One-touch Focus Clutch Mechanism allows the photographer to switch between AF and MF simply by snapping the focus ring forward for AF and back toward the lens mount for manual focusing. The lens is also designed to stand up to the rigors of daily use by photographers in a wide variety of shooting conditions and environments.

* The lens is designed for Digital cameras with APS-C sized CMOS and CCD sensors, not designed for cameras with Full Frame sensors.
Wideangle Zoom Lens for APS-C Format DSLR Cameras

AF11-16mm F2.8

TO FIT CANON • NIKON-D • SONY-A
APS-C Sized Sensor Model Only

AT-X 116 PRO DX II

Ultra-Wide, Ultra-Speed

The New Tokina AT-X 116 PRO DX-II is an update to the widely popular and award winning AT-X 116 PRO DX, 11-16 F2.8 lens.

The main update to this lens is in the Nikon mount, the AT-X 116 PRO DX-II has an internal silent focusing motor to allow the lens to AF on Nikon bodies that do not have an AF drive gear and motor.

There have also been some adjustments made to the coating for slightly improved optical performance.

This compact ultra wide-angle zoom has a bright constant F/2.8 aperture make viewing and auto focus possible in lower light situations but still maintaining a reasonable size and weight.

Two Super-Low Dispersion glass elements and two aspheric glass allow the proprietary optical design to achieve excellent contrast and sharpness as well as controlling chromatic aberration.

Tokina’s exclusive One-touch Focus Clutch Mechanism allows the photographer to switch between AF and MF simply by snapping the focus ring forward for AF and back toward the lens mount for manual focusing.

The lens is also designed to stand up to the rigors of daily use by photographers in a wide variety of shooting conditions and environments.

Other than the optical coating change there are no changes to the Canon mount. The AT-X 116 PRO DX-II for Canon uses the same AF motor and AF drive system as the the previous model.

Lens Hood BH-77B
The large BH-77B wide-angle hood with “click-lock” to stay in place.

- 13 Elements in 11 Groups
- Minimum Focus Distance: 0.3m
- Angle of view: 104° - 82°
- Filter size: ø77mm
Wide Zoom Range
The new Tokina AT-X 12-28mm F4 lens has a super-wide to standard zoom range while maintaining a constant fast f/4.0 aperture. This makes it a very versatile lens for different photo applications such as scenery, street scenes photography and event coverage. The lens is designed for DSLR cameras with APS-C (DX) sized sensors.

New Optical Design
A new optical design using aspherical elements and super-low dispersion glass matches even the highest mega-pixel DX sensors cameras available today. One aspherical lens element is positioned in the front group. This together with another precision molded glass aspherical lens element placed in the rear group ideally focuses marginal light rays and maintains sharpness at the edges while also correcting distortion. The use of two different SD (Super-low Dispersion) glass elements, type FK01 and FK03, correct chromatic aberration. The combination of all these specialized elements in the optical design yield excellent sharpness and color.

New Auto Focus Mechanism
The new AF “GMR magnetic precision” sensor is capable offset auto-focus. Tokina placed the new sensor closer to the drive unit in the lens for faster communication between the controller and AF motor. This combined with the motor’s high-precision focus control yields faster, more accurate auto-focus.

Additionally, a brand new “SD-M” (Silent Drive-Module) has greatly lowered the sounds emitted by the auto focus drive system allowing for much quieter AF. Both Canon and Nikon mounts have a built-in AF motor to make them auto-focus compatible with all current camera bodies.

- The lens is designed for Digital cameras with APS-C sized CMOS and CCD sensors, not designed for cameras with Full Frame sensors.
The Tokina AT-X 107 DX is a fish-eye lens that gives the digital photographer an approximate 180° field of view with dramatic curvature of field or “fish-eye” effect. With this lens an entire view or vista can be captured, wider than the human eye can see. The AT-X 107 opens an entirely new dimension of photography. Unlike other fish-lenses, the AT-X 107 DX gives a full corner-to-corner image.

The front element of the AT-X 107 DX has a newly formulated WR or “Water Repellent” optical coating on the glass. This new coating makes marks such as spots left by water or finger-prints much easier to clean than standard multi-coating.**

The rear optical group of the lens contains 1 SD (Super-Low Dispersion) glass element to reduce the number of elements (pieces of glass) in the optical design in order to make the lens more compact, light-weight and faster focusing.

- The lens is designed for Digital cameras with APS-C sized CMOS and CCD sensors, not designed for cameras with Full Frame sensors.
- Be sure to note that the Tokina AT-X 107 DX lens itself is not waterproof or water resistant.
The Tokina AT-X 107 NH is a fish-eye lens that gives the digital photographer an approximate 180° field of view with dramatic curvature of field or “fish-eye” effect. The AT-X 107 NH only differs from the AT-X 107 DX in that the built-in hood has been removed allowing for a wider image area and more coverage on full-frame sensor (FX) cameras.*

The front element of the AT-X 107 DX has a newly formulated WR or “Water Repellent” optical coating on the glass. This new coating makes marks such as spots left by water or finger-prints much easier to clean than standard multi-coating. With the built-in hood removed the lens also fits in a wider variety of underwater housings.

The rear optical group of the lens contains 1 SD (Super-Low Dispersion) glass element to reduce the number of elements (pieces of glass) in the optical design in order to make the lens more compact, light-weight and faster focusing.

*Full corner to corner image can be achieved on an FX camera between approx. 14.5-17mm depending on the camera model, at 10-14mm there is a semi-circular view.

Be sure to note that the Tokina AT-X 107 DX lens itself is not waterproof or water resistant.
AF100mm F2.8 TO FIT CANON • NIKON-D

AT-X M100 PRO D

100mm F2.8 MACRO

The AT-X 100 PRO D is a new macro lens capable of life-sized (1:1) reproduction at 11.8 in. (30 cm). The lens' multi-coating have been re-engineered to match the highly reflective silicon based CCD and CMOS sensors in today’s digital SLR cameras. This lens gives the best of both worlds because optics still give full coverage and excellent sharpness on 35mm film. A macro lens that can handle both the digital and film worlds with ease.

The AT-X 100 PRO D also has a very convenient focus limiter switch that can lock the focus out of the closes focus making it focus faster when used as a moderate telephoto lens that is excellent portraits as well.

Other features of the AT-X 100 PRO D are:

- Tokina One Touch Focus Clutch Mechanism for fast easy switching between manual and Auto focus.
- 55mm non-rotating filter thread for use with macro ring flashes and special effects filters.

The AT-X 100 PRO D also comes with a deep bayonet mounted lens hood.

- Will not AF when used on Nikon D5100, D3200 and other silent wave bodies.

- 9 Elements in 8 Groups
- Minimum Focus Distance: 0.3m
- Angle of view: 24.30°
- Filter size: ø55mm

Lens Hood BH-551

The large BH-551 Macro hood with “click-lock” to stay in place.

Canon Mount Model

Macro Lens for
Full Frame DSLR Cameras
Reflex 300mm F6.3

TO FIT Micro 4/3rds Model Only

REFLEX 300mm F6.3 MF MACRO

The New Tokina Reflex 300mm F6.3 compact telephoto mirror lens is designed specifically for mirrorless compact cameras using the micro 4/3rds mount.

The 300mm focal length of the lens gives effective 600mm (in 35mm terms) when placed on a mirrorless camera body making it a super-telephoto lens. This allows distant subject to be brought in much closer. But despite this powerful focal length the lens is incredibly compact to match the size of the compact cameras it was intended to be used with.

The lens has a fixed F6.3 aperture. The Tokina Reflex 300mm has all metal lens barrels and very high quality glass optics to yield the best optical performance from a new of this design.

This lens has a wide grip area on the manual focusing ring and smooth movement to assist in focusing. This is a manual focus system only.

- 7 Elements in 3 Groups
- Minimum Focus Distance: 0.8m
- Angle of view: 4.8°
- Filter size: ø55mm

Lens Hood BH-552

The large BH-552 Macro hood with “click-lock” to stay in place.
Angle of View

The range across the film surface onto which the subject is exposed is expressed as an angle, called the angle of view. Wide-angle lenses with their short focal lengths have a wide angle of view, which means the exposure range is wide. Conversely, telephoto lenses, which have long focal lengths, have a narrow angle of view, making the exposure range narrow. So a wide-angle lens is used to take a wide area of a subject nearby whereas a telephoto lens is used to take only part of a subject located further away. A single zoom lens, meanwhile, can function as a number of lenses with different focal lengths, enabling you to smoothly alter the angle of view and quickly frame the shot. You can select your lens to create the effect of distance or depth of field, or to suit the location and surrounding conditions.

Some Examples of Effective Focal Length in Relation to Sensor Size

Full Frame Sensor
Canon EOS 1DX, 1DX Mark II
5D, 5D Mark II, 5D Mark III
5Ds, 5Ds R, 6D, 1Ds Mark III
Nikon D4, D5, Df
D610,D750,D800,D810,D810A
SONY α7S II, α7R II, α7 II
α7S, α7R, α7

APS-H Size Sensor
(1.5x= Full Frame Sensor)
Canon EOS 1D Mark II, 1D Mark IIn, 1D Mark III
Nikon D40, D60, D90, D300
D3000, D5000, D7000, D5500,
D7200, D5600, D5400, D5300,
D3400
SONY a57, a65, a77, a6300,
a6500, a6100, a5000

APS-C Size Sensor
(1.6x= Full Frame Sensor)
Canon EOS 40D, 50D, 60D, 70D, 80D
7D, 7D Mark II, M, M2, M3
Rebel T4i, T3i, M3, T2i, T3, T4i, T5, T6i
550D, 600D, 650D, 700D, 750D, 760D
1100D, 1200D, 1300D

APS-C Size Sensor
(1.5x= Full Frame Sensor)
Nikon D40, D60, D90, D300
D3000, D5000, D7000, D5500,
D7200, D5600, D5400, D5300,
D3400
SONY a57, a65, a77, a6300,
a6500, a6100, a5000

Micro Four Thirds Size Sensor
(2x= Full Frame Sensor)
Olympus PEN E-P3, E-P4, E-P5
E-PL3, E-PL4, E-PL5, E-PL6, E-PL7
E-PM1, OM-D E-M5, OM-D E-M10
Panasonic Lumix GH2, GH3, GH4
GH5, GX7MK2, G7, GF7, GM5, GM1S

Full Frame
36 x 24 mm

APS-H
28.7 x 19 mm

APS-C
22.2 x 14.8 mm

Micro 3/4
17.3 x 13 mm
**Depth of Field**

When you focus on a subject, there is part of the subject that is in focus and parts in front and behind which are not in focus. This range in which the object is seen to be sharply in focus is called the depth of field.

If the focal length is kept the same, the depth of field gets deeper (the range in which the subject is sharp gets wider) as the aperture is stopped down, and it gets shallower (the range in which the subject is sharp gets narrower) as the aperture is opened.

Even when the aperture stop is the same, the depth of field gets shallower as the subject distance gets shorter, and deeper as the subject gets further away. Furthermore the depth of field is deeper with a short focal length wide angle lens, and shallower with a long focal length telephoto lens.

**Perspective**

Perspective is the visual effect of moving a subject which is in the foreground closer to or further from the background. If you take photographs with lenses of different focal length while keeping the size of the subject in the foreground constant, the background appears to be further away and the sense of perspective is exaggerated with a short focal length wide angle lens.

With a long focal length telephoto lens, the background appears to be closer to the subject and the sense of perspective is lessened. You can greatly change the feeling of presence even with the same subject by using this sense of perspective.
One-Touch Focus Clutch Mechanism

The newly improved one-touch focus clutch allows the focus to be moved quickly and easily from the AF position back into the MF position. In Nikon and Canon mounts, the lens can be set for manual focusing without an AF/MF switch or setting the body to the AF position.

Internal Focus System

The two main methods of lens focusing are either the complete straight forward movement of elements (used mainly with single focal length lenses), or the rotation of the entire front lens barrel group (used mainly with zoom lenses). The internal focusing system used by Tokina moves each lens group, but does not change the overall length of the lens - this is especially useful with telephoto designs.

The internal focusing system has a number of advantages, including:

1. Faster focusing
2. Improved handling due to fewer movements near the center of gravity
3. More compact lens designs
4. Superior use of filters as the front filter thread does not rotate

SD (Super Low Dispersion) Glass

Lenses with the SD mark use Super-low Dispersion glass which minimizes the secondary spectrum caused by chromatic aberration. Basically, these lenses use FK01 and FK02 optical materials which gives them SD (APO) qualities. This provides excellent image quality in telephoto lenses of 200mm or more by correcting color aberration across the entire picture and bringing all colors into focus accurately at the film plane.
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<th>Diagonal Angle of View</th>
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<th>Diaphragm Blades</th>
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<th>Lens Hood</th>
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<td>AT-X 24-70 PRO FX 24~70mm F2.8</td>
<td>C, N/D</td>
<td>15/11</td>
<td>84.20° ~ 34.49°</td>
<td>0.38m (14.9 in.)</td>
<td>1:4.73</td>
<td>f/2.8~f/22</td>
<td>9</td>
<td>82</td>
<td>89.6</td>
<td>107.5</td>
<td>1010</td>
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<td>AT-X 70-200 F4 FX VCM-S 70-200mm F4</td>
<td>N/D</td>
<td>19/14</td>
<td>34.45° ~ 12.42°</td>
<td>1.0m (39 in.)</td>
<td>1:3.57</td>
<td>f/4~f/32</td>
<td>9</td>
<td>67</td>
<td>82</td>
<td>167.5</td>
<td>980</td>
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<tr>
<td>AT-X 16-28 PRO FX 16~28mm F2.8</td>
<td>C, N/D</td>
<td>15/13</td>
<td>107.11° ~ 76.87°</td>
<td>0.28m (11 in.)</td>
<td>1:5.26</td>
<td>f/2.8~f/22</td>
<td>9</td>
<td>N/A</td>
<td>90</td>
<td>133.3</td>
<td>950</td>
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<tr>
<td>AT-X 17-35 PRO FX 17~35mm F4</td>
<td>C, N/D</td>
<td>13/12</td>
<td>103.96° ~ 64.74°</td>
<td>0.28m (11 in.)</td>
<td>1:4.82</td>
<td>f/4~f/22</td>
<td>9</td>
<td>82</td>
<td>89</td>
<td>94.5</td>
<td>600</td>
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<tr>
<td>AT-X 14-20 F2 PRO DX 14~20mm F2</td>
<td>C, N/D</td>
<td>13/11</td>
<td>91.68° – 70.75°</td>
<td>0.28m (11 in.)</td>
<td>1:8.36</td>
<td>f/2~f/22</td>
<td>9</td>
<td>82</td>
<td>89</td>
<td>106</td>
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<tr>
<td>AT-X 11-20 PRO DX 11~20mm F2.8</td>
<td>C, N/D</td>
<td>14/12</td>
<td>104.34° ~ 72.42°</td>
<td>0.28m (11 in.)</td>
<td>1:8.62</td>
<td>f/2.8~f/22</td>
<td>9</td>
<td>82</td>
<td>89</td>
<td>92</td>
<td>560</td>
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<tr>
<td>AT-X 116 PRO DX II 11~16mm F2.8</td>
<td>C, N/D, S</td>
<td>13/11</td>
<td>104° ~ 82°</td>
<td>0.3m (11.8 in.)</td>
<td>1:11.6</td>
<td>f/2.8~f/22</td>
<td>9</td>
<td>77</td>
<td>84</td>
<td>89.2</td>
<td>550</td>
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<tr>
<td>AT-X 12-28 PRO DX 12-28mm F4</td>
<td>C, N/D</td>
<td>14/12</td>
<td>99.37° - 54.73°</td>
<td>0.25m (9.8 in.)</td>
<td>1:4.94</td>
<td>f/4~f/22</td>
<td>9</td>
<td>77</td>
<td>84</td>
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<td>530</td>
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<tr>
<td>AT-X 107 AF DX 10-17mm F3.5~4.5</td>
<td>C, N/D</td>
<td>10/8</td>
<td>180° ~ 100°</td>
<td>0.14m (5.5 in.)</td>
<td>1:2.56</td>
<td>f/3.5~f/22</td>
<td>6</td>
<td>N/A</td>
<td>70</td>
<td>71.1</td>
<td>350</td>
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<tr>
<td>AT-X 107 AF DX NH 10-17mm F3.5~4.5</td>
<td>C, N/D</td>
<td>10/8</td>
<td>180° ~ 100°</td>
<td>0.14m (5.5 in.)</td>
<td>1:2.56</td>
<td>f/3.5~f/22</td>
<td>6</td>
<td>N/A</td>
<td>69.9</td>
<td>70.9</td>
<td>350</td>
</tr>
<tr>
<td>AT-X M100 PRO D 100mm F2.8</td>
<td>C, N/D</td>
<td>9/8</td>
<td>24.30°</td>
<td>0.3m (11.8 in.)</td>
<td>1:1</td>
<td>f/2.8~f/32</td>
<td>9</td>
<td>55</td>
<td>73</td>
<td>95.1</td>
<td>490</td>
</tr>
<tr>
<td>REFLEX 300mm F6.3 MF MACRO</td>
<td>Micro 4/3rds</td>
<td>7/3</td>
<td>4.8°</td>
<td>0.8m(31.5 in.)</td>
<td>1.2</td>
<td>f/6.3</td>
<td>N/A</td>
<td>55</td>
<td>66</td>
<td>66</td>
<td>298</td>
</tr>
</tbody>
</table>

The external appearance and specifications shown in this catalog may be changed without any advance notice.

- Mount: C: CANON AF  N/D: NIKON AF-D  S: SONY-A
- 1g = 0.03527 oz  10mm = 0.39370 inch  1m = 3.28084 feet
Tokina

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