

11~16mm F2.8 AT-X 116 PRO DX V
 12~28mm F4 AT-X 12-28 PRO DX V
 17~35mm F4 AT-X 17-35mm F4 PRO FX V

VDSLR series

ENGLISH

Tokina's DX lenses are designed for use with digital single-lens reflex (SLR) cameras having APS-C sized sensors. Do not use Tokina DX lenses with digital SLR cameras having an image sensor larger than APS-C size, or with a SLR camera that uses film.

Tokina's FX lenses are designed for digital SLR cameras with full sized (24x36mm) image sensors.

This lens is intended for use with VDSLR's. Auto focus can be used when taking still photos but emphasis of this lens is video use.

Descriptions of Parts

- | | |
|---------------------------------|------------------------------|
| ① Hood Attachment Index | ⑦ Manual Focus Ring |
| ② Follow-focus gear | ⑧ Auto-Focus (AF) Position |
| ③ Focus Distance Index | ⑨ Manual Focus (MF) Position |
| ④ Zoom Ring | ⑩ Focus Distance Scale |
| ⑤ Center Index | ⑪ Focal Length Scale |
| ⑥ Hood Right Position Indicator | |

AT-X 116 PRO DX V
TO FIT CANON Digital



AT-X 12-28 PRO DX V
TO FIT CANON Digital



AT-X 17-35mm F4 PRO FX V
TO FIT CANON Digital



How to Attach/Detach the Lens

Attach/detach the lens to/from your camera according to the instructions in the manual provided with your camera.

* When attaching/detaching the lens, be careful not to touch the electronic contacts on the lens mounting surface nor crush these contacts by strong impact.

Focusing

The lens normally focuses automatically when the focus mode switch on the lens is set to the Auto focus (AF) position. If the camera is in the manual-focus (MF) position, adjust the focus by looking into the finder and turning the manual focus ring. This lens also supports focusing through the use of a focusing aid.

Exposure Modes

For the exposure mode settings, follow the instructions in the manual provided with your camera.

Filters

Use the appropriate sized threaded filters with these lenses. Be sure your filters are clean before taking a photo. Perfect photographs cannot be taken if the filter is dirty or when water droplets or other foreign particulates are on the filter. Clean the filter thoroughly before taking photographs.

* Always use one filter at a time. If two or more filters are used together, or when a thick filter such as a polarized filter is used, vignetting (darkening at the corners of the exposed image) may occur.

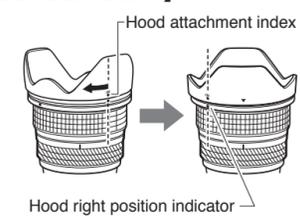
Lens Hood

A lens hood is designed to help reduce or prevent flare and ghost images that are caused by strong diagonal or side rays of light striking the front of the lens. We recommend that you use a lens hood at all times to ensure clear, problem-free photographs and video. The lens hood also provides protection for the lens itself. * A lens hood can be attached in the reverse direction on the front of the lens for storage.

<How to attach the lens hood>

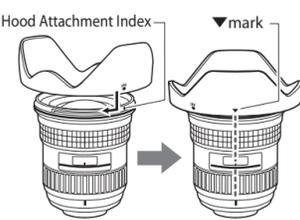
[AT-X 116 PRO DX V] [AT-X 12-28 PRO DX V]

To securely install the hood, align the mark on the hood with the hood attachment index (●) on the lens, and then turn the hood clockwise, as viewed from the front, until a click is heard. Then, confirm the position of the mark on the hood aligns with the position of the hood position Indicator on the lens.



[AT-X 17-35mm F4 PRO FX V]

To securely install the hood, align the mark on the hood with the hood attachment indicator (●) on the lens, and then turn the hood clockwise, as viewed from the front, until a click is heard.



Confirm that the ▼ mark on the hood is aligned with the center index on the lens.

* When attaching the hood, turn it until you hear a "click" to ensure a secure fit. If the hood is not attached properly, vignetting could occur.

About Follow Focus

This lens is equipped with an interlocking follow focus gear on the manual focus ring for use in a cinematic follow focus rig.

To use a follow focus, please place the manual focusing ring in the MF position, focus and shoot.

Before shooting, please confirm that the follow focus gear is meshed properly with the follow focus gear on the lens.

<Installation Example>

AT-X 116 PRO DX V



One-Touch Focus Clutch Mechanism

<How to switch from the Auto focus position to manual focus position>

The lens focus mode can be switched between the auto focus (AF) mark on the lens barrel and manual focus (MF) positions at any time by moving the manual focus ring forward or backward. When the focus ring is moved back toward the mount the AF mark will be covered and the lens will only focus manually. Move the focus ring toward the front of the lens for auto-focus.



* For lenses using either the Nikon or Canon mounting system, it is possible to use manual focus without switching the focus mode switch on either the camera body or the lens to the manual position.

In the Auto focus position the manual focus ring turns freely.

* For all Canon mounts and Nikon mount, the built-in AF motor will be automatically turned off when the focus ring is switched to MF mode position.

* When the Canon mount is switched to the MF position, the motor switch in the lens automatically turns off. (The motor switch in the lens automatically turns off when Nikon mounts are switched to the MF position as well.)

* Depending on the lens model, you may hear a sound from inside the lens when the lens is shaken lightly. This is the sound of the ball bearings that are designed to smooth the action of the focus ring. It does not indicate a problem with the general functioning of the lens.

Caution Regarding the Use of a Built-in Flash

If the camera's built-in flash is used, the light of the built-in flash will be partially obstructed by the lens, so the picture shows a large shaded area at the bottom of the image. Therefore, it is advisable to use an external flash when this lens is attached.

Flash Photography (Red-eye Phenomenon)

When photographing people with the aid of a flash, their eyes sometimes show as red in the image. This is called the "red-eye phenomenon." Follow your camera manual instructions on how to remove red eye.

Precautions for Use

● Attaching a lens hood

Unlike a SLR camera using a silver halide film, a digital SLR camera produces a large measure of reflection due to its imaging sensor. It is therefore recommended that a lens hood be attached when you're taking photographs with a digital SLR camera. Especially when a wide-angle lens is used, a lens hood should be attached even indoors.

● The DX lens is designed exclusively for a digital SLR camera of APS-C size.

Tokina's DX lenses are designed exclusively for use with digital SLR cameras having an APS-C sized image sensor. Using the DX lenses with a digital SLR camera with an imaging sensor of a size larger than APS-C, or with a SLR camera designed for silver-halide film, will cause vignetting.

● Using Ultra-Wide Angle Lenses.

If you are using a super/ultra-wide angle lens in auto focus, it may not focus on the periphery (outer edges) of the frame in AF mode. Since the depth of field in an ultra-wide angle zoom lens is very deep, focus detection in the periphery of the frame becomes difficult for cameras set in multi-point auto focus. We recommend using a central focus detection setting on your camera when using auto focus with ultra-wide angle lenses.

Performance Table

Model	Item	Optical structure elements/groups	Angle of view	Minimum focus distance (m)	Maximum macro magnification	Minimum aperture	Number of aperture diaphragms	Filter size (mm)	Overall length (mm)	Maximum diameter (mm)	Weight (g)	Lens hood
AT-X 116 PRO DX V		13-11	104° ~ 82°	0.3	1 : 11.6	22	9	77	89.2	84.0	550	BH77B
AT-X 12-28 PRO DX V		14-12	99° ~ 54°	0.25	1 : 4.94	22	9	77	90.2	84.0	532	BH77B
AT-X 17-35mm F4 PRO FX V		13-12	103° ~ 64°	0.28	1 : 4.82	22	9	82	94.5	89.0	600	BH821

The specification data is based on the use of the lens with a Canon camera.

※ The CE Mark (certification mark for conformance with the European export inspection requirements) is shown on lenses containing electronic parts.

