



## HD PENTAX D-FA

### 150-450MM F4.5-5.6ED DC AW

	Art. Code	EAN
HD PENTAX-D FA 150-450MM F4.5-5.6ED DC AW	21340	0027075286931

## ADVANTAGES

- ✓ Image circle covering Full-frame sensor
- ✓ 3X ratio supertelephoto zoom (eq to 230-690 for APS-C)
- ✓ Dependable weather-resistant construction against humidity and dust (21 protection joints)
- ✓ Smooth, quiet autofocus operation driven by a built-in DC motor
- ✓ HD Coating to optimize light transmittance and minimize reflection
- ✓ ED lens elements for brilliant sharpness and saturated colours
- ✓ Focus Range Limiter (Full, 2-6m, 6m-∞)
- ✓ Round shaped diaphragm to produce beautiful bokeh
- ✓ Super Protect coating of the front lens element for effective protection
- ✓ Three-position switch for Quick-Shift Focus System (QFS/A, QFS/M and MF modes) for a speedier and more accurate focusing operation for a given subject or application
- ✓ Detachable tripod mounting with a newly designed anti-falling mechanism
- ✓ 4 AF buttons to provide more stable AF operation and better hold of the lens in horizontal or vertical position. These buttons are customizable (Focus Preset mode and AF cancel mode)
- ✓ Zoom lock lever to prevent the lens barrel from free-falling

## INCLUDED ACCESSORIES

LENS HOOD PH-RBA86 - 37666  
LENS CAP O-LC86 - 31507  
LENS MOUNT CAP K - 31006  
TRIPOD MOUNT O-TM80 - 38101  
LENS CASE HS120-270 - 37783

## OPTIONAL ACCESSORIES



PENTAX LENS PEN - N.50166

<b>Focal Length</b>	150-450mm
<b>(in 35mm format equivalent)</b>	230-690mm
<b>Maximum Aperture</b>	F4.5-5.6
<b>Minimum Aperture</b>	F22-27
<b>Lens Construction</b>	18 elements in 14 groups
<b>Angle of View</b>	10.7-3.6°(when attached to PENTAX digital SLR cameras) 16.5-5.5°(when attached to PENTAX 35mm SLR cameras)
<b>Mount</b>	KAF3
<b>Minimum Focusing Distance</b>	2m
<b>Maximum Magnification</b>	0.22x
<b>Filter Diameter</b>	86mm
<b>Diaphragm Control</b>	Fully automatic
<b>Number of Diaphragm Blades</b>	9 Rounded aperture : 150mm: F4.5-8 450mm: F5.6-8
<b>Maximum Diameter x Length</b>	Approx.95mm x 241.5mm
<b>Weight</b>	Approx.2000g (with hood Approx.2130g) (with hood and tripod mount Approx.2325g)
<b>Bundle</b>	Hood, Lens cap, Mount cap, Lens Case, Tripod Mount
<b>Weight</b>	HD Coating • SP (Super Protect) Coating • All Weather Resistant • DC Motor • Quick-shift Focus System • AF Button Focus Preset Mode • Focus Range Limiter



# HD PENTAX-D FA

## 150-450MM F4.5-5.6ED DC AW

The HD PENTAX-D FA 150-450mm F4.5-5.6ED DC AW super-telephoto zoom lens is designed for use with PENTAX K-mount digital SLR cameras. It has been developed to cover focal lengths from 150mm to 450mm — a focal-length range most demanded by high-end PENTAX-camera users. It features the PENTAX-original, high-grade HD Coating to produce extra-sharp, high-contrast images even under demanding lighting conditions such as in backlight. It also incorporates three ED (Extra-low Dispersion) glass elements and a super-low dispersion glass element to effectively compensate chromatic aberration. Its dustproof, weather-resistant body also makes it extremely dependable and durable in demanding outdoor conditions.

## Main Features

### 1. Super-telephoto coverage with three-times zoom ratio

When mounted on a PENTAX K-mount SLR camera body, this zoom lens covers a super-telephoto range from approximately 230mm to 690mm in the 35mm format. It is designed to be compact and light enough to handhold during long-range shooting of such subjects as wildlife, aircraft and sports.

### 2. Outstanding image description

Thanks to its state-of-the-art optics featuring three ED (Extra-low Dispersion) glass elements and one super-low dispersion glass element, this zoom lens effectively minimizes spherical and chromatic aberrations, while producing crisp, high-quality images free of color bleeding. Its MTF (Modulation Transfer Function) curve is programmed to be higher than those of conventional models in the same class to deliver high-resolution, fine-detailed images. Its image circle is optimized to cover even the image size of 35mm film-format SLR cameras. As the result, it not only assures brilliant, high-resolution images without compromising the sharpness at edges even when mounted on an existing PENTAX digital SLR camera body, but it is also capable of accepting future models with larger image sensors without modifications.

### 3. HD Coating to optimize image rendition

This lens is treated with the high-grade, multi-layer HD Coating.\* Compared with conventional multi-layer coatings, this PENTAX-original coating assures higher light transmittance and less reflection to deliver bright, high-contrast images free of flare and ghost images, even under demanding lighting conditions such as backlight.

\* HD stands for High Definition.

### 4. Dustproof, weather-resistant construction

Developed as an AW (All Weather) model, this zoom lens features a dependable dustproof, weather-resistant construction with 21 special seals to prevent the intrusion of water and dust particles into the lens interior. By pairing it with a PENTAX weather-resistant digital SLR camera body, it assures a durable, reliable digital imaging system that performs superbly in demanding shooting settings — even in rain or mist, or at locations prone to water splashes or spray.

### 5. Newly installed three-position switch for Quick-Shift Focus System

The lens is equipped with the PENTAX-developed Quick-Shift Focus System, which allows the user to instantly switch to manual-focus operation after the subject is captured in focus by the camera's AF system. In order to improve its operability, a three-position switch is newly installed on this lens, allowing instant switching among QFS/A, QFS/M and MF modes. QFS/A is an autofocus-priority mode, which allows the user to switch to manual-focusing operation only when autofocus operation is completed. QFS/M is a manual-focus-priority mode, which enables the user to switch to manual focusing at any time — even when the AF system is in operation. MF mode allows the user to instantly switch to manual focusing with a simple twist of the focus ring on the lens. With a choice of three distinctive modes, the user is assured of speedier, more accurate focusing operation for a given subject or application.

### 6. Four AF buttons installed on the lens barrel

In order to provide more stable AF operation and better hold of the lens regardless of the camera's orientation — horizontal or vertical — this lens provides four AF buttons on its barrel — one at every 90 degrees.\*\* The user can assign preferred settings to these AF buttons, including: a Focus Preset mode to preprogram the focus position and instantly shift the focus to that position; and an AF Cancel mode to intentionally fix the focus at a desired point during Continuous AF operation.

\*\* The PENTAX K-3 is currently the only model to accommodate the AF button functions. To activate these functions, the camera's firmware must be updated to the latest version.

### 7. Other features

- Smooth, quiet AF operation using a lens-installed AF driving motor
- Round-shaped diaphragm to produce a natural, beautiful bokeh (defocus) effect, while minimizing the streaking effect of point light sources
- Focus range limiter to minimize AF operation time by fixing the focus range to one of three sub-ranges
- SP (Super Protect) coating to keep the front surface free of dust and stains
- Zoom lock lever to prevent the lens barrel from free-falling
- Detachable tripod mounting with a newly designed anti-falling mechanism

Note: Designs and specifications are subject to change without notice