



DESCRIPTION	ART. CODE	EAN
HD PENTAX-D FA★ 85mm F1.4 ED SDM AW	22890	027075301238

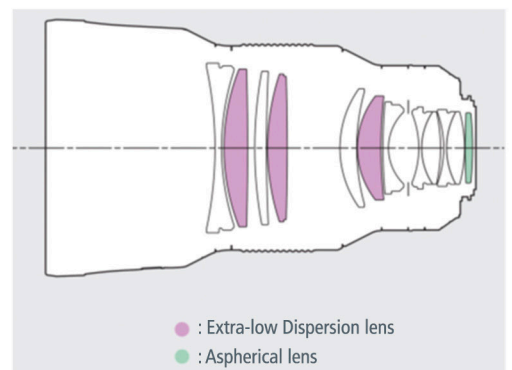
**HD PENTAX-D FA★ 85mm F1.4 ED SDM AW:**  
A large-aperture, medium-telephoto lens  
for use with K-mount digital SLR cameras;  
the second single-focus model of the  
new-generation Star lens series

### Included Accessories

- Exclusively designed, large ring-type SDM
- Dustproof, weather-resistant construction
- State-of-the-art optical technology

• Lens Hood PH-RBG82	34802   027075301290
• Lens Cap O-LC82	31830   027075295636
• Lens Mount Cap K	31006   027075006508
• Lens Case S130-160	33940   027075043008

<b>FOCAL LENGTH</b>	85mm Equivalent to 130mm in 35mm format (when attached to PENTAX APS-C size DSLR cameras)
<b>MAXIMUM APERTURE</b>	F1.4
<b>MINIMUM APERTURE</b>	F16
<b>LENS CONSTRUCTION</b>	12 elements in 10 groups
<b>ANGLE OF VIEW (DIAGONAL)</b>	28.5° (19° when attached to a PENTAX APS-C size DSLR camera)
<b>MOUNT</b>	KAF4
<b>MINIMUM FOCUSING DISTANCE</b>	0.85m (2.8ft.)
<b>MAXIMUM MAGNIFICATION</b>	0.12x
<b>FILTER DIAMETER</b>	82mm
<b>DIAPHRAGM CONTROL</b>	Electromagnetic diaphragm, fully automatic
<b>NUMBER OF DIAPHRAGM BLADES</b>	9, rounded diaphragm (85mm: F1.4–F2.8)
<b>WATER / DUST PROTECTION</b>	8 sealing rings
<b>TEMPERATURE</b>	-10°C~40°C (14°F~104°F)
<b>HUMIDITY</b>	85% or less (no condensation)
<b>MAXIMUM DIAMETER X LENGTH</b>	approx. 95mm x 123,5mm (approx. 7.4in. x 4.9in.)
<b>WEIGHT</b>	approx. 1255g / with hood approx. 1355g, (approx. 44.3oz. / with hood approx. 47.8oz.)



## HD PENTAX-D FA★ 85mm F1.4 ED SDM AW

### Main Features

Designed for use with PENTAX K-mount digital SLR cameras, this high-performance medium-telephoto lens features a compact body with weather-resistant construction for a variety of applications like portrait, architecture or landscape photography.

#### 1. New-generation, high-performance Star-series lens to deliver ideal image quality

Anticipating the further advancement of SLR camera bodies in the future, PENTAX has designed this lens to deliver extra-clear, high-contrast images with edge-to-edge sharpness by compensating various aberrations to a minimum, while greatly enhancing resolving power — two factors absolutely essential in the next-generation Star series. It provides exceptionally high imaging performance even at open aperture, a beautiful bokeh (defocus) effect and outstanding image rendition at close ranges — all reasons why it produces high-quality, well-defined images. It also boasts an extra-large F1.4 maximum aperture, useful with many different subjects in a range of applications, including portraiture with an effectively defocused background, handheld shooting of indoor scenes and scenic photography. It helps the camera to produce a bright, clear viewfinder image that will inspire the photographer's creativity and imagination.

#### 2. State-of-the-art optical technology

This lens incorporates three Super ED (Extra-low Dispersion) glass optical elements to effectively minimize chromatic aberration, and a glass-molded aspherical optical element to effectively compensate for spherical and comatic aberrations and field curvature to deliver extra-clear, high-contrast images with edge-to-edge sharpness, even at open aperture. It also reduces distortion to nearly zero at a focusing distance of four meters to deliver well-defined, distortion-free images over the entire focusing range, from the minimum focusing distance to infinity. This lens is also treated with high-grade, multi-layer HD\* Coating, which reduces average reflectance in the visible ray spectrum to less than 50% of conventional multi-layer coatings, effectively reducing flare and ghost images to a minimum even in demanding lighting conditions such as backlighting.

#### 3. Exclusively designed, large ring-type SDM

In order to deliver the highest image quality possible over the entire focusing range — from the minimum focusing distance to infinity — this lens features an exclusively designed, large ring-type SDM (Supersonic Direct-drive Motor) to efficiently drive the focusing mechanism, which consists of a larger number of optical elements than ordinary lenses, and is required to shift heavy rear-optical-element groups in unison. Generating a torque approximately 1.3 times that of the unit installed in the HD PENTAX-D FA 50mm f1.4 SDM AW, this new SDM assures flawless, high-speed autofocus operation.

#### 4. Dustproof, weather-resistant construction

Developed as an AW (All Weather) model, this lens features a dependable dustproof, weather-resistant construction with eight special seals to prevent the intrusion of water into the lens barrel. When paired with a dustproof, weather-resistant PENTAX 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. Other features

- Nine-blade, round-shaped diaphragm to produce a natural, beautiful bokeh (defocus) effect up to the F2.8 aperture setting, while minimizing the streaking effect of point light sources
- Exterior design that facilitates focus-ring operation in manual-focus shooting and provides a firm hold
- Electromagnetic diaphragm-control mechanism\*\* for flawless, high-precision exposure control during video recording
- SP (Super Protect) coating to keep the front surface free of dust and spots

