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smc PENTAX-D FA 645 55mmF2.8 AL[IF] SDM AW
A Unifocal Standard Lens for use
with Medium-Format Digital SLR Cameras;
The First Model of the smc PENTAX-D FA 645 Series

HOYA CORPORATION PENTAX Imaging Systems Division is pleased to announce the launch of the smc PENTAX-D FA 645 55mm F2.8 AL[IF] SDM AW. Developed as the first model of the PENTAX-D FA 645 lens series, it not only features new optics optimized for high-quality digital photography to assure exceptional image-description performance, but also provides an image circle covering the image area of existing 645-format film SLR cameras. This unifocal standard lens also comes with a dependable, dust-proof, weather-resistant construction for active outdoor photography.

Major Features

1. State-of-the-art optics to accommodate the requirements for super-high-resolution photography using medium-format digital SLR cameras

Incorporating high-performance, hybrid aspherical optical element in its optics, this new standard lens offers exceptional image-resolving power with outstanding brightness levels even at the edges, while compensating various aberrations to a minimum. All lens characteristics are optimized for digital photography: for instance, flare and ghost images are minimized by applying exclusive lens coatings to optical elements and employing anti-reflection materials for the interior of the lens barrel. As the result, this lens can bring out the full potential of the PENTAX 645D medium-format digital SLR camera.

2. Versatile standard lens

When mounted on the PENTAX 645D camera body, this standard lens offers a focal length of 43.5mm (in the 35mm format), which produces an angle of view close to that of the human eye. As the result, it can be used for many different kinds of subjects and applications, including landscapes and portraits.

3. Dependable dustproof, weather-resistant construction

Using seven special seals, the lens' dustproof, weather-resistant construction effectively prevents the intrusion of dust and water to the lens interior. By coupling this lens with the PENTAX 645D camera body, the user is assured of a durable, reliable digital SLR camera system that performs superbly in outdoor settings, even in rain or mist or at locations prone to water splashes or spray.

PENTAX plans to use the “AW” (All Weather) designation in the product name of all dustproof, weather-resistant medium-format interchangeable lenses to be marketed in the future.

4. Aero Bright coating to dramatically improve image description in backlight

The lens is treated with PENTAX-original Aero Bright coating, which delivers brilliant, high-quality images by preventing annoying flare and ghost images more effectively than ever before. Born as the fruit of PENTAX’s advanced nanotechnology, this exclusive coating effectively reduces lens reflectance and greatly increases light transmittance by forming a silica aerogel layer with uniform pores on the surface of optical element.

5. Rounded diaphragm to produce a beautiful bokeh

This is the first PENTAX medium-format interchangeable lens to feature a completely rounded diaphragm. It creates a natural, beautiful “bokeh” (out-of-focus rendition), while minimizing the streaking effect of point light sources.

6. Smooth, quiet SDM autofocus mechanism

The SDM (Supersonic Direct-drive Motor) autofocus mechanism operates smoothly and quietly using the supersonic motor installed inside the lens barrel.*

** Only manual-focus operation is available when this lens is mounted on the PENTAX 645N or PENTAX 645N II camera body.*

7. SP coating to block dust and dirt

The front surface of the lens is treated with PENTAX-original SP (Special Protect) coating, which applies an exclusive fluorine compound to the lens surface through a vapor deposition process. This SP coating not only effectively repels dust, water and grease, but also makes it easy to wipe off fingerprints and cosmetics.

8. Other features

- 1) Image circle covering the image area of 645-format film SLR cameras
- 2) Functional, simplified design, with no aperture ring
- 3) Quick-Shift Focus system for instant switching to manual-focus operation, after the subject is captured in focus by the AF system
- 4) PL filter window for easy installation of a polarizing filter without removing the lens hood
- 5) PH-SA67 Square Plastic Hood (optional)** for more effective prevention of flare and ghost images when mounted on the PENTAX 645D camera body

*** This hood cannot be used with a 645-format film SLR camera body, as it causes vignetting.*

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- ◆ *SDM is a trademark of HOYA CORPORATION.*
- ◆ *Design and Specifications is subject to change without notice.*

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Mount	PENTAX 645K _{AF2} mount
Lens Construction	9 elements in 7 groups
Angle of View	53° (wiith PENTAX 645D body) (attached with Film Medium-format: 65°)
Number of Diaphragm Blades	9
Minimum Aperture	F22
Minimum Focusing Distance	0.5m (1.65 ft.)
Filter Diameter	67mm
Maximum Magnification	0.17x
Maximum Diameter & Minimum Length	81.3mm x 68.2mm (3.2 inch x 2.7 inch)
Weight	approx. 416g (14.7 oz.)