

# PENTAX XW SERIES EYEPIECES

**Clear, Comfortable Viewing Assured by 70° Apparent Angle of View and 20mm Eye Relief.**

All smc PENTAX XW-series eyepieces feature an extra-wide 70-degree apparent angle of view and an extra-long 20mm eye relief to deliver an exciting, wide-perspective image.

**High-Grade Optics for Exceptional Image Quality.**

The high-performance XW-series optics incorporates high-refraction, extra-low-dispersion lanthanum glass elements to produce a well-balanced image with minimal aberrations. It is particularly designed to reduce the disturbing blackout effect by effectively compensating the spherical aberration of the pupil.

**PENTAX-Original Multi-Layer Coating for Outstanding Light Transmission Efficiency.**

All lens surfaces that come in contact with air are treated with the original multi-layer coating, while all laminated surfaces are treated with the innovative partial coating, to offer the light transmission efficiency of more than 90 percent (an astonishing 96 percent at 550nm) over the visible light spectrum.

**Advanced Light-Shielding Technology for Improved Image Contrast.**

Thanks to PENTAX' s advanced computer simulation technology, the XW series features a light-shielding diaphragm at the most effective position to drastically reduce internal reflections for a brighter, higher-contrast image.

**A Choice of Four Magnifications to Meet Specific Applications.**

With four different magnifications (7mm, 10mm, 14mm and 20mm) to choose from, the XW series accommodates a wide range of both casual and specialized applications.

**Weatherproof Construction for All-Weather Viewing.**

The XW series features JIS Class 4 weatherproof construction,\* making it possible to use it in drizzle or under night dew. \* *The XW-series eyepieces are not designed for underwater use and should not be submerged under water.*

**American-Standard Eyepiece Sleeve and Built-In Adapter-Mounting Screw**

The XW series features the American-standard 31.7mm for smooth, easy installation on the PENTAX spotting scopes. When the rotatable eyecup is removed, it also offers an adapter-mounting screw/thread (43mm in diameter with a 0.75mm pitch).

## Specifications

smc PENTAX XW-Series Eyepieces only

Model	XW14	XW10	XW7
Focal Length	14mm	10mm	7mm
Lens Construction [Elements/Groups]	7/6	7/6	8/6
Apparent Angle of View	70°	70°	70°
Eye Relief	20mm	20mm	20mm
Sleeve Size	31.7mm	31.7mm	31.7mm
Length & Diameter [mm]	97 x 61	110 x 61	120 x 61
Weight [g]	365g	390g	390g

smc PENTAX XW20 with Spotting Scope

Product name	PENTAX PF-80EDA	PENTAX PF-80ED	PENTAX PF-65EDAII	PENTAX PF-65EDII
Magnification	27X	26X	19.5X	19.5X
Real Field of View	2.6°	2.7°	3.5°	3.5°
Apparent Field of View	70°	70°	70°	70°
Field of View at 1000m	45m	47m	61m	61m
Exit Pupil	3.0mm	3.1mm	3.3mm	3.3mm
Eye Relief	20mm	20mm	20mm	20mm
Relative Brightness	9.0	9.6	10.9	10.9

smc PENTAX XW14 with Spotting Scope

Product name	PENTAX PF-80EDA	PENTAX PF-80ED	PENTAX PF-65EDAII	PENTAX PF-65EDII
Magnification	37X	36X	28X	28X
Real Field of View	1.9°	2.0°	2.5°	2.5°
Apparent Field of View	70°	70°	70°	70°
Field of View at 1000m	33m	35m	44m	44m
Exit Pupil	2.2mm	2.2mm	2.4mm	2.4mm
Eye Relief	20mm	20mm	20mm	20mm
Relative Brightness	4.8	4.8	5.7	5.7

smc PENTAX XW10 with Spotting Scope

Product name	PENTAX PF-80EDA	PENTAX PF-80ED	PENTAX PF-65EDAII	PENTAX PF-65EDII
Magnification	52X	50X	39X	39X
Real Field of View	1.4°	1.4°	1.8°	1.8°
Apparent Field of View	70°	70°	70°	70°
Field of View at 1000m	24m	24m	31m	31m
Exit Pupil	1.6mm	1.6mm	1.7mm	1.7mm
Eye Relief	20mm	20mm	20mm	20mm
Relative Brightness	2.6	2.6	2.9	2.9

smc PENTAX XW7 with Spotting Scope

Product name	PENTAX PF-80EDA	PENTAX PF-80ED	PENTAX PF-65EDAII	PENTAX PF-65EDII
Magnification	74X	71X	55.5X	55.5X
Real Field of View	0.95°	1.0°	1.25°	1.25°
Apparent Field of View	70°	70°	70°	70°
Field of View at 1000m	16.5m	17m	21m	21m
Exit Pupil	1.1mm	1.1mm	1.2mm	1.2mm
Eye Relief	20mm	20mm	20mm	20mm
Relative Brightness	1.2	1.2	1.4	1.4