



PENTAX
Sport Optics

S-SERIES

SP 8X40 WP
SP 10X50 WP
SP 12X50 WP
SP 20X60 WP

A ROUGH & TOUGH WATER-PROOF PERFORMER

ADVANTAGES

- ✓ New fully multi-coated optics
- ✓ Phase correction
- ✓ Protective lens coating
- ✓ Waterproof
- ✓ Nitrogen purged
- ✓ Unique hydrophobic coating
- ✓ Aspherical lens elements
- ✓ Magnesium alloy construction

Model	Art. Code	EAN
SP 8x40 WP	65871	0027075288676
SP 10x50 WP	65872	0027075288683
SP 12x50 WP	65873	0027075288690
SP 20x60 WP	65874	0027075288706

Magnification	8x	10x	12x	20x
Objective lens diameter	40 mm	50 mm	50 mm	60 mm
Type	Full-size Porro			
Lens Coating	Fully multi-coated optics, protective lens coating			
Prism	BaK4			
Twilight Factor	17.9	22.4	24.5	34.6
Field of View (at 1.000 m)	110 m	87 m	73 m	38 m
Close focus	3.5 m	5.5 m	5.5 m	8.0 m
Exit Pupil	5 mm	5 mm	4.2 mm	3.0 mm
Eye Relief	20 mm	20 mm	20 mm	21 mm
Eyecups	Multi-Stop Twist-Up			
Waterproof	Yes (JIS Class 6) – Nitrogen purged			
Tripod adaptor	With adapter N – PENTAX Code No. 69553			
Size (LxWxH in mm)	136 x 178 x 76	178 x 183 x 79	178 x 183 x 79	224 x 195 x 85
Weight (g)	900	1,060	1,080	1,400
Supplied accessories	Objective and eyepiece caps, case, strap			



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S-series – Consists of both roof and porro prism models with objective lenses > 40mm so personal preferences are immediately defined. In addition to the newly developed light transmission coatings, waterproof porro prism models also boast the hydrophobic coating, thereby allowing for contrast-rich, bright viewing under rough outdoor conditions.

This binocular was created for heavy duty applications. The rubber armoured waterproof and nitrogen-purged body withstands weather, dust or rough impact. Add high imaging capability and you have a binocular that will accompany you to the extremes, on land or on water! Includes a powerful 20 x 60 for long-range or astronomy observations.

Main Features

New Fully-multi-coated optics

Fully multi-coated lenses serve the essential purpose of maximizing the amount of light passing through a lens, thereby prevent flare and ghosting from interfering with your view. PENTAX applies multiple layers of coatings to every surface of every element and prism in the full Sport Optics line-up. These fully-multi-coated optics assure the maximum light transmission resulting in a clear, crisp view of the world.

Protective Lens Coating

All optical surfaces are delicate and must be handled with care to prevent scratching. To add to the durability of the Z- and S-series Water Proof binoculars*, PENTAX has added a protective, nano technology coating that helps deflect water, oil, dust and dirt. This allows PENTAX binoculars to withstand the harshest viewing conditions.

BaK4 prisms

Due to its outstanding refractive index, the BaK4 glass prism found in all PENTAX Sport Optics is highly acclaimed for its perfectly round exit pupil and clear, unvignetted image.

Phase Correction

The complex optical design of roof prism binoculars provide durable, compact, yet lightweight design but require a higher level of optical perfection. A phase-correction coating is applied in the full range of roof prism binoculars to maximize image viewing quality.

PENTAX Waterproofing

PENTAX waterproof products are fully sealed and purged with laboratory grade nitrogen to provide a fog proof view in the harshest weather conditions. With a JIS Class 6 rating, PENTAX waterproof binoculars can even be submerged in up to 3 feet of water.

Unique Hydrophobic Coating

Water droplets on a lens have a negative influence on the ability of light to enter the objective lens. By using a unique water repellent coating on all outer lenses we make water drops “bead” into small, deformed droplets. The deformed droplets cause less distortion and “slide” more easily off the lens. Your binocular remains fully functional even in rain, snow, fog or condensing breath.

Aspherical lens elements

Edge-to-edge sharpness is a vital element to comfortable viewing. To achieve this, we utilise aspherical lens elements in our eyepieces. This is a specially shaped lens design that reduces aberration to a minimum.

Nitrogen purged

Nitrogen is a chemical element and a colorless, odorless and tasteless gas. It contains very little humidity and is therefore used to “purge” binoculars and spotting scopes of the high humidity air that is part of our environment. Due to the low humidity factor, nitrogen prevents condensation from forming on the internal lenses of optical instruments during phases of rapid temperature change. Furthermore, because nitrogen is purged into the optical instrument at slightly above atmospheric pressure, dust and other miniscule particles are prevented from entering the housing.

Long eye relief design

The long eye relief offered in all PENTAX Sport Optics allows the viewer to see the entire field of view clearly and effortlessly. This is especially beneficial to eyeglass wearers, and allows viewing for extended periods of time without added eye strain.

Superb impact resistance

The body is made from magnesium, which adds toughness while keeping the binoculars light. In addition, the exterior rubber coating provides the binoculars with superb resistance to shocks and impacts.

Other Features

Helicoid three-stop eyepiece rings that permit fine adjustment for maximum viewing comfort