



## ADVANTAGES

- ✓ New fully multi-coated optics
- ✓ New enhanced light transmission coatings
- ✓ Phase correction
- ✓ Protective lens coating
- ✓ Waterproof, nitrogen-filled and unique hydrophobic coating
- ✓ Hybrid aspherical lens element
- ✓ ED element (extra-low dispersion glass)
- ✓ Magnesium alloy construction

# PENTAX

*Sport Optics*

## Z-SERIES

ZD 8X43 ED  
ZD 10X43 ED  
ZD 10X50 ED

## EXPERIENCE REVOLUTION

Model	Art. Code	EAN
ZD 8x43 ED	62701	0027075288522
ZD 10x43 ED	62702	0027075288539
ZD 10x50 ED	62703	0027075288546

<b>Magnification</b>	8x	10x	10x
<b>Objective lens diameter</b>	43 mm	43 mm	50 mm
<b>Type</b>	Full-size Roof		
<b>Lens Coating</b>	New fully multi-coated optics, New enhanced light transmission coatings, Protective lens coating		
<b>Prism</b>	BaK4 with dielectric and phase correction coating		
<b>Twilight Factor</b>	18.5	20.7	22.4
<b>Field of View (at 1.000 m)</b>	110 m	105 m	87 m
<b>Close focus</b>	2.0 m	2.0 m	3.5 m
<b>Exit Pupil</b>	5.4 mm	4.3 mm	5.0 mm
<b>Eye Relief</b>	22 mm	17 mm	22 mm
<b>Eyecups</b>	Multi-Stop Twist-Up		
<b>Waterproof</b>	Yes (JIS Class 6) – Nitrogen purged		
<b>Tripod adaptor</b>	With adapter TP-3 – PENTAX Code No. 69554		
<b>Size (LxWxH in mm)</b>	146 x 126 x 53	146 x 126 x 53	170 x 132 x 59
<b>Weight (g)</b>	715	730	855
<b>Supplied accessories</b>	Objective and eyepiece caps, case, strap		



## ZD 8X43 ED ZD 10X43 ED ZD 10X50 ED

**Z-series – This series is the flagship of the entire range, offering premium level quality and clarity, at a price that's within reach. The Z-series models are clearly built for critical observation. The new Full Multi-Coating and a new Enhanced Light Transmission Coating are designed to delight the most demanding users and inspire the most dedicated enthusiasts. A hydrophobic, protective coating rounds off the outdoors applications.**

You have to see it to believe it! This series brings you closer to the finest detail you have ever experienced. Thanks to ED lens elements and dielectric coating, in addition to the standard fully multi-coated lenses, new light transmission coating resolution is maximised while chromatic aberrations completely minimised. This is quite simply the perfect birding and nature-viewing binocular with professional levels of optical performance. This series is proof that we take our Sport Optics seriously. So serious, in fact, that we challenge the top-end establishment to meet our Value for Money benchmark.

## 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.

### New Enhanced Light Transmission Coatings

PENTAX binoculars take quality optics to the next level by applying a new, optimized film-deposition technology on lens and prism surfaces resulting in increased light transmission which creates bright images with accurate color rendition.

### 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.

### Inner Focus Optics Design

This sophisticated optical design is critical to low-maintenance and long life guarantee. Exposure to airborne particles and moisture is avoided, thereby ensuring that no outside influences can penetrate the housing and disrupt functionality.

### Hybrid 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. Hybrid-Aspherical lens elements have the additional advantage of superior functionality while being lightweight and compact.

### ED-Objective lenses

To build superior binoculars the ultimate challenge is to avoid colour errors (Chromatic aberration). Several techniques are available but by far the best results can be achieved by using ED (extra low-dispersion) glass in the objective lens. ED-lenses have a high breaking index with minimal dispersion. The result is comparable to the use of Apochromatic lenses; but now only 2 lens elements are used. The advantage of this technology is clear; the binocular is lighter in weight and more compact.

### Dielectric coating

Dielectric Coating of the prisms serves to enhance the colors of the image. Multiple layers of surface correction coatings are "vaporized" onto the surface of the prisms in a vacuum. This maximizes the quality of visible light in the color spectrum between infra-red and ultra-violet as it passes through the glass.

### 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.

### 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.

### 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.

### Other Features

**Helicoid four-stop eyepiece rings** that permit fine adjustment for maximum viewing comfort.

**Short minimum focusing distance** for easy observation of nearby subjects.  
**Locking diopter adjuster guards** against accidentally moving the diopter setting.