

# PENTAX Binoculars

## DCF HRc



### A most brilliant companion.

The new PENTAX DCF HRc series binoculars are the next generation of the acclaimed PENTAX HR II series, incorporating the latest technical advancements. The new design not only allows for more compact dimensions but also a viewing field that is substantially brighter and clearer. The smc multi-coating of the lenses reduces internal reflections, so colour aberrations are practically nil. The DCF HRc series are completely waterproof and filled with nitrogen to prevent internal condensation. They also feature aspherical hybrid lenses and silver-deposit roof prisms with phase-correction coating that combine to assure high-definition, high-resolution viewing. Designed and built for discriminating outdoor use they are the perfect companions for all-weather nature observations and for use around the lake or the sea.



- > smc multi-coating, BaK4-prism, phase correction coating
- > Body construction features rugged reinforced polycarbonate
- > Water, dust and fog proof



Extra-large, slip-proof focusing wheel: easy to operate even when wearing gloves. The diopter adjusting control is located behind the focusing wheel and can be locked.



Dust proof, waterproof: two O-rings and nitrogen filled, assuring 100% protection against dust and water. Fully serviceable in extreme temperature ranges from  $-10^{\circ}$  to  $+45^{\circ}$  Celsius.



Unique clarity with smc multi-coated lenses, BaK4-prism and dielectric coating (over 60 separate coatings).

PENTAX  
**PentaBright™**  
TECHNOLOGY

# PENTAX

## Magnification

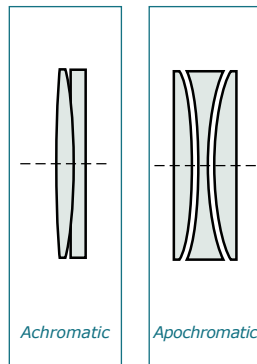
The name of binocular tells you what the main specifications are. For example: PENTAX 8x42 DCF HRc. The "8x" denotes the image magnification. With an "8x" binocular the image that you see will appear 8 times larger than it would be when viewed without the binocular.

## Front lens diameter

The second number in the binocular name indicates the diameter of the front lens. Again, with the example PENTAX 8x42 DCF HRc this would mean a diameter of it 42mm. This value is important, because it indicates how much light can be gathered. The rule of thumb is this: the larger the front lens, the brighter the image that you'll see. The trade-off: the binoculars are somewhat heavier.

## Achromatic/Apochromatic

Achromatic lens systems eliminate colour aberrations for only two wavelengths of light. That is why PENTAX prefers to incorporate apochromatic lens systems in their binoculars. Apochromatic lenses are comprised of different types of glass that are transparently cemented together. The result is that there is virtually no colour shifting whatsoever across the entire chromatic spectrum of light.

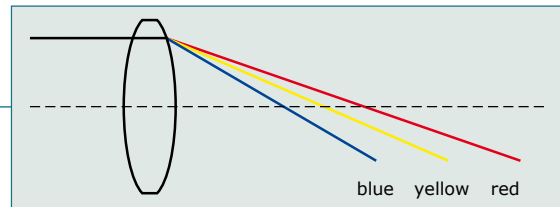


## Eye Point

The Eye Point indicates the maximum distance between the eye and the eyepiece at which the image can be completely seen without restriction. This is particularly important for eyeglass wearers.

## Colour Aberrations

When the rays of light pass through the lenses of binoculars they are broken down and separated according to their wavelength. Because these separated rays are different lengths they do not precisely hit the same point of the image plane. That leads to unsharp and disturbing colour aberration.



| DCF HRc                         |  |                |
|---------------------------------|--|----------------|
| Magnification                   | 8x   | 10x            |
| Objective lens diameter         | 42mm   | 42mm           |
| Type                            | Full-size Roof   |                |
| Lens coating                    | All lenses fully multi coated  |                |
| Prism                           | BaK4-roof prism with a new silver deposited and phase correction coating |                |
| Twilight factor                 | 18.3   | 20.5           |
| Field of view (at 1,000 metres) | 131m   | 105m           |
| Close focus                     | 2.5m   | 2.5m           |
| Exit pupil                      | 5.2mm  | 4.2mm          |
| Eye point                       | 21mm   | 18mm           |
| Eyepiece ring                   | Adjustable with locking mechanism  |                |
| Waterproof                      | Waterproof JIS Class 6 Nitrogen purged                                   |                |
| Tripod Adaptor                  | With Adapter N - Code No. 69553  |                |
| Size (w x h x d in mm)          | 148 x 133 x 52   | 144 x 133 x 52 |
| Weight (g)                      | 670  | 660            |
| Accessories                     | Objective lens caps, Rain Guard (Eyepiece lens cap), Case, Neck strap    |                |

Code No. 8 x 42 62553  
Barcode 0027075126268

Code No. 10 x 42 62554  
Barcode 0027075126275

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