



# outdoors closer

Combining superb optical quality and durability, Nikon's new roof binoculars provide outstanding performance for watching sports, birds and other animals, or just for appreciating the great outdoors.

Multilayer coated lenses provide bright and clear images. Turn-and-slide rubber eyecups with multi-click allow easy positioning of eyes at the proper eyepoint. High-eyepoint design assures comfortable viewing even for eyeglass wearers.

Moreover, O-ring seals and nitrogen gas in the slim body make these binoculars waterproof and fog-free. Rubber coating assures secure grip even in wet conditions.

The SPORTER EX binoculars are the ideal choice for outdoor activities.



## Specifications

	SPORTER EX 8x42	SPORTER EX 10x50
Magnification	8x	10x
Objective diameter	42 mm	50 mm
Angular field of view (real)	7.0°	5.6°
Angular field of view (apparent)*	52.1°	52.1°
Field of view at 1,000 m	122 m	98 m
Exit pupil	5.3 mm	5.0 mm
Relative brightness	28.1	25.0
Eye relief	19.7 mm	19.6 mm
Close focusing distance	5.0 m	5.0 m
Interpupillary distance adjustment	56-72 mm	56-72 mm
Length	154 mm	187 mm
Width	131 mm	139 mm
Weight	670 g	825 g

\* Nikon has adopted a calculation method based on ISO 14132-1:2002.

$$\tan \omega' = \tau \times \tan \omega$$

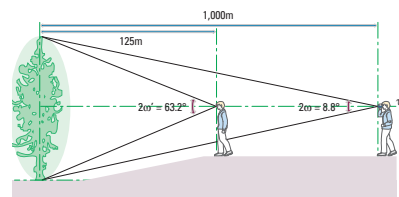
Apparent field of view:  $2\omega'$

Real field of view:  $2\omega$

Magnification:  $\tau$

For example, the apparent field of view of 8x binoculars with an 8.8° real field of view is as follows:

$$\begin{aligned} 2\omega' &= 2 \times \tan^{-1} (\tau \times \tan \omega) \\ &= 2 \times \tan^{-1} (8 \times \tan 4.4^\circ) \\ &= 63.2^\circ \end{aligned}$$



Specifications and equipment are subject to change without any notice or obligation on the part of the manufacturer.

June 2008

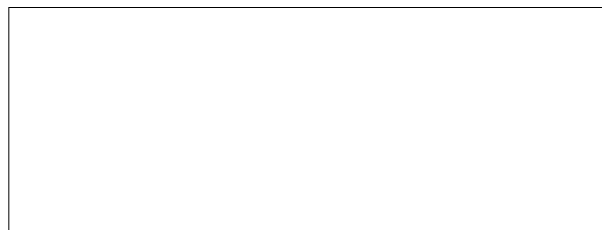
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**SPORTER EX**  
8x42/10x50  
Waterproof



**Nikon Sport Optics**

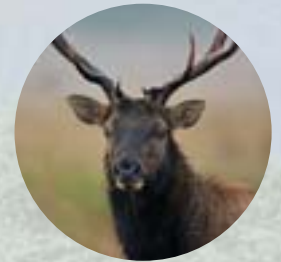
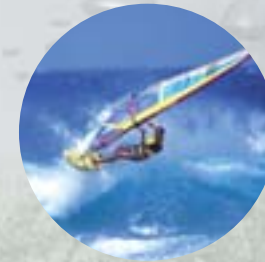




**Waterproof**

The body of the SPORTER EX binoculars is filled with nitrogen gas, making it waterproof up to 1 meter for 10 minutes. SPORTER EX binoculars can be safely used in the rain, lakeside or at the beach.

# Bringing the great outdoors closer



SPORTER EX 8x42



SPORTER EX 10x50

**Features**

- Waterproof (up to 1 m/3.3 ft. for 10 minutes) and fog-free with O-ring seals and nitrogen gas
- High-eyepoint design for clear field of view, even for eyeglass wearers
- Multilayer coated lenses for brighter images
- Turn-and-slide rubber eyecups with multi-click facilitate easy positioning of eyes at the correct eyepoint
- Lead- and arsenic-free eco-glass optics are used for all lenses and prisms