



L I V E L I F E L A R G E R
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Nikon Sport Optics



Exhilarating Moments

You're below deck when the steward sounds the call. A pod has been spotted, and it's your sole chance to savour this awe-inspiring phenomenon before heading back to the workaday world. You slip your binoculars from their case, go topside and ease them to a sharp, penetrating focus. A spray sweeps your face. A chill shivers your spine.

What could be more magnificent? This broad, sweeping arch exploding from the depths. The rhythms. The synchronous splendour.

And to match this inspirational moment, your extraordinary Nikon optics. The finest materials, exclusive coatings and more brilliant, more distinct images across the entire lens. All coupled to precision ergonomics that guide you to that surge of exhilaration when it counts most.

Above all, it's the tried and trusted performance you take into any environment, no matter how challenging, and the certainty that you have what it takes to experience the ultimate vision.

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Nikon and the Environment

Nikon is constantly developing new ways to prevent environmental pollution and ensure a healthier ecosystem. In 1998, Nikon introduced the Nikon Basic Policy for Green Procurement, a broad range of activities designed to reduce the environmental impact of our products. Under this policy, Nikon employs materials, parts, and packaging items produced with special concern for the environment.

Another strategy, the Environmental Action Plan for Fiscal 2005, established the goal of completely eliminating seven harmful chemical substances — hexavalent chrome, lead, cadmium, mercury, PBB, PBDE and polyvinyl chloride — from all Nikon consumer products by September 2005.

Nikon is also in full compliance with the EU's July 2006 RoHS (Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment) directive, as well as other new EU regulations.

We are reducing waste through environmental policies that extend the life of our products and simplify repairs, as well as minimising energy consumption through the more efficient use of power.

Nikon — innovating new and exciting eco-friendly products for our precious world.



Numerical information code for binoculars

All Nikon binoculars are designated with a numerical formula, such as "10x25 5.4°". The value "10x" indicates the magnification of the binoculars. If a person uses 10x binoculars to observe a wild bird from a distance of 100 metres, for example, it will appear to the observer as if he or she were viewing the bird from a distance of 10 metres (100 divided by 10 equals 10) with the naked eye.

The next number, "25", tells you that the effective diameter of the objective lens is 25mm. The greater the diameter of the objective lens, the brighter your image will be with the same illumination. If the objective lens is too large, however, the binoculars will be heavy and may cause trembling of the hands.

Finally, the number "5.4°" represents the actual field of view of the binoculars. This is the angle of the visible field, as measured from the centre of the objective lenses. The bigger the value, the easier it is to locate an object.

Understanding the meaning of these numbers should provide you with greater freedom in selecting and using binoculars.

* For more details, see page 46.

Check the letters in the name of any Nikon binoculars — they convey helpful information about each model.



D: Roof (Dach) prism
 WP: Waterproof
 CF: Central focusing
 IF: Individual focusing
 HP: High eyepoint

The following icons tell you for what purpose each series is best suited:



Mountaineering, camping, hiking

Rugged outdoor activities demand portability and durability. Models that also feature rubber armouring and waterproofing are ideal.



Birdwatching, nature watching

Wide field of view and 7x to 10x magnification models are suited for general nature viewing. Observing whales or birds at longer distances is more comfortable at 8x to 12x magnification. Fieldsopes and Spotting Scopes are recommended for even closer views.



Marine sports, fishing

Waterproofing and durability are critical for these activities. High brightness and a wide field of view are also desirable. Models featuring vibration reduction are convenient for on-board use.



Spectator sports

Binoculars featuring a wide field of view and 7x to 10x magnification are recommended for fast-moving sports. Zoom-type binoculars are convenient, enabling quick and easy change of magnification according to the viewing situation.



Hunting and outdoor

Models with 8x to 10x magnification are suitable for hunting, with waterproofing and durability being further prerequisites. For early morning and evening use, binoculars with a large objective diameter are recommended.



Travelling

Compact, lightweight models featuring moderate magnification and field of view are ideal for travelling.



Theatre

Compact models featuring magnification from 4x to 8x are recommended for theatre use. To focus on a particular performer at a concert, 7x to 10x models are suitable.



Stargazing

Astronomical observation requires a bright optical system with large objective diameter and exit pupil. Waterproof and aberration-corrected binoculars are most suitable.



Museum

In museums, compact and lightweight models with lower magnification and a close focusing distance of less than 2m are desirable.



For eyeglass wearers

High-eyepoint design for a clear field of view even for wearers of eyeglasses.

Binoculars

Enduring perfection

Nikon binoculars have established a benchmark for extraordinary value by which all others are compared. Building on Nikon's eminence as the global leader in precision optics,* we provide binoculars for virtually any application, making it easy to find brilliant, impeccable optics for your own specific needs. Most models feature Nikon multilayer-coated lenses of the highest quality

to provide astonishingly bright, razor-sharp images. All models feature rugged construction, and finely tuned ergonomic engineering for comfortable handling during long hours of use. Whatever your passion — be it birdwatching, rugby, an ocean crossing, or a night at the opera — Nikon has the ideal binoculars for you.



* Nikon IC steppers produce a major share of the world's most sophisticated semiconductors.

Binoculars

HIGH GRADE

When only the best will do

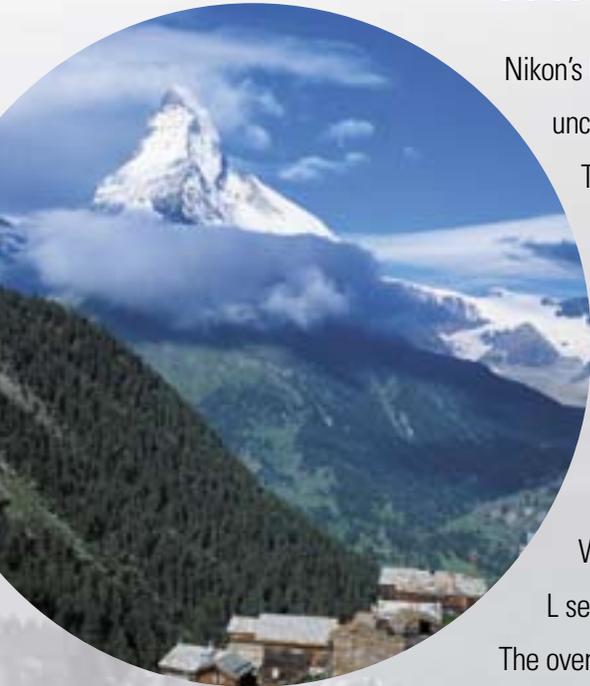
Nikon's high-grade HG L series binoculars bring everything into focus and uncover the beauty of the world around you.

Topping off Nikon's acclaimed lineup of binoculars, the six HG L series models are designed for unparalleled performance and comfort.

Advanced lens and prism construction delivers sharp, bright images that intensify your viewing experience. Other elements, such as the user-oriented optical and mechanical design, work together to reveal fine details you'd have otherwise missed. And in 42mm objective diameter models, the weight has been significantly reduced.

What's more, environment-friendly materials extend the quality of the HG L series even further.

The overall result is something Nikon believes all binocular users should experience: more moments of clarity.



8x20HG L DCF

Features common to the HG L series

- Sharp, clear images to the lens periphery, thanks to Nikon's exclusive field flattener lens and eyepiece design
- Nikon's original multilayer coating attains a high light transmission rate across a wide range of wavelengths and reduces flare and ghosts for excellent colour reproduction
- Phase-correction-coated roof prisms deliver high resolution
- Prisms feature a high-reflection silver coating to provide brighter images
- High-eyepoint design provides a clear field of view, even for eyeglass wearers
- Soft-touch silicon rubber eyecup
- Turn-and-slide rubber eyecups with multi-click* facilitate easy positioning of eyes at the correct eyepoint

- Large focusing ring makes operation easy
- Every model is waterproof up to 2m/6.6 ft. (3m/9.8 ft. for 8x20HG L DCF/10x25HG L DCF) for 5 minutes and fog-free, with O-ring seals and nitrogen gas
- Made with environment-friendly materials
Non-polyvinyl chloride material used for body, eyepiece lens cap, objective lens caps, case and wide strap
Eco-glass optics that are free of lead and arsenic are used for all lenses and prisms
- Can be fixed to a tripod using optional tripod adaptor* (see p 43)

*Except 8x20HG L DCF/10x25HG L DCF.



8x42HG L DCF



8x32HG L DCF

8x42HG L DCF/10x42HG L DCF



- Lightweight (8x: 795g, 10x: 790g)
- Sturdy, lightweight die-cast magnesium alloy body
- Close focusing distance of 3m
- Dioptre adjustment ring locking system prevents unintentional rotation
- Excellent performance at temperatures as low as -20°C
- Rubber armouring for shock resistance and a firm, comfortable grip
- Ergonomic 3D design for greater ease of holding
- Eyepiece lens caps are connected for easy use



8x42HG L DCF

8x32HG L DCF/10x32HG L DCF



- Finely balanced compensation of aberrations
- Close focusing distance of 2.5m
- Dioptre adjustment ring locking system prevents unintentional rotation
- Excellent performance at temperatures as low as -20°C
- Rubber armouring for shock resistance and a firm, comfortable grip
- Ergonomic 3D design for greater ease of holding
- Eyepiece lens caps are connected for easy use



8x32HG L DCF

8x20HG L DCF/10x25HG L DCF



- Sturdy, lightweight die-cast magnesium alloy body
- Foldable design is convenient for carrying
- Close focusing distance of 2.4m (8x) and 3.2m (10x)
- Dioptre adjustment ring is located in the centre of the body, which improves operability
- Excellent performance at temperatures as low as -30°C



8x20HG L DCF

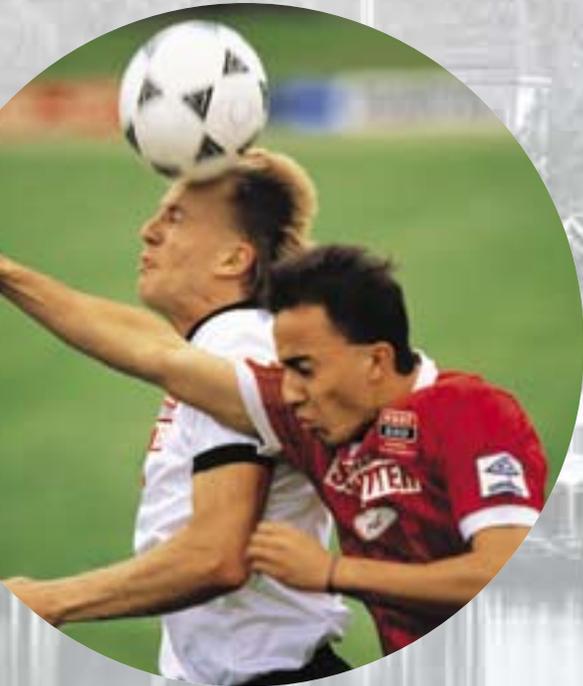
* Specifikace viz str. 38-39.

Binoculars

STANDARD

More choices for better views

Nikon's standard lineup of sleekly designed Porro and Roof (Dach) binoculars features highly advanced optical technology and intelligent designs. All models offer a bright field of view thanks to a large objective diameter, and a sharp, undistorted view up to the periphery. These versatile binoculars are great for tracking athletes heading for the finish line or the flitting movements of a bird, and are just the thing for budding nature watchers.





Action EX 8x40CF

Action Series 7x35CF/8x40CF/7x50CF/10x50CF/12x50CF/16x50CF



- Aspherical eyepiece lens eliminates image distortion
- Multilayer-coated lenses and large objective diameter for optimal clarity of image
- Rubber armouring for shock resistance and a firm, comfortable grip
- Sophisticated design
- Wide strap
- Can be fixed to a tripod using optional tripod adaptor (Action 16x50CF includes tripod adaptor) (see pp 42-43)



Action 8x40CF

Action Zoom Series 7-15x35CF/10-22x50CF



- Multilayer-coated lenses for a bright image
- Superior optical design ensures sharp images at any magnification
- Rubber armouring for shock resistance and a firm, comfortable grip
- Smooth zooming
- Sophisticated design
- Wide strap
- Can be fixed to a tripod using optional tripod adaptor (Action 10-22x50CF Zoom includes tripod adaptor) (see pp 42-43)



Action 7-15x35CF Zoom

Action EX Series 7x35CF/8x40CF/7x50CF/10x50CF/12x50CF/16x50CF



- Waterproof (up to 1m/3.3 ft. for 5 minutes) and fog-free with nitrogen gas
- High-eyepoint design provides a clear field of view even for eyeglass wearers
- Turn-and-slide rubber eyecups with multi-click
- Multilayer-coated lenses and large objective diameter for optimal image clarity
- Rubber armouring for shock resistance and a firm, comfortable grip
- Eco-glass optics are free of lead and arsenic
- Aspherical eyepiece lens eliminates image distortion (7x50CF, 12x50CF only)
- Wide strap
- Can be fixed to a tripod using optional tripod adaptor (16x50CF includes tripod adaptor) (see pp 42-43)



Action EX 8x40CF

* For specifications, see pp 38-39.

Binoculars

COMPACT

Big performance in sleek designs

When you're on the go, convenience is everything. That's what makes the Nikon compact lineup so appealing. Small enough to take anywhere, they're ideal for getting great views for that next holiday, concert, or sporting event.



Sportstar EX 8x25DCF <Silver/Charcoal grey>
Photo: Charcoal grey



SPRINT IV Series 8x21CF/10x21CF



- Compact and lightweight
- Multilayer-coated lenses for a bright image
- Close focusing distance of 3m
- Stylish design and body colour
- Rubber coating for comfortable grip (metallic black models)
- Available in two body colours (silver/metallic black)



SPRINT IV 8x21CF <Silver/Metallic black>
Photo: Silver

Sportstar EX Series 8x25DCF/10x25DCF



- Waterproof and fog-free with nitrogen gas
- Turn-and-slide rubber eyecups facilitate easy positioning of eyes at the correct eyepoint
- Close focusing distance: 2.5m (8x), 3.5m (10x)
- Multilayer-coated lenses for bright images
- Compact and lightweight
- Fold-up design; easy to carry around
- Available in two body colours (silver/charcoal grey)



Sportstar EX 8x25DCF <Silver/Charcoal grey>
Photo: Charcoal grey

EAGLEVIEW ZOOM 8-24x25CF



- Unique zoom lever designed for extra-smooth 8-24x zooming
- Turn-and-slide rubber eyecups for easy positioning of eyes at the correct eyepoint
- Multilayer-coated lenses for bright images
- Carbon fibre material in parts of the grip enhance durability
- Designed for comfortable fit and easy handling
- Compact and lightweight
- Parts contain eco-friendly materials
- Available in two body colours (silver/black)



EAGLEVIEW ZOOM 8-24x25CF <Silver/Black>
Photo: Silver

TRAVELITE V Series 8x25CF/9x25CF/10x25CF/12x25CF/8-24x25CF



- Aspherical lenses* minimise distortion and provide sharp images up to the periphery
- Multilayer-coated lenses for bright images
- Special rubber armour for shock resistance and a firm, comfortable grip
- Carbon fibre in the body material improves durability
- Small, lightweight and ergonomic design
- Click-type dioptre adjustment ring prevents unwitting rotation
- 8-24x zoom (8-24x25CF TRAVELITE V only)

*Except for 8-24x25CF TRAVELITE V



8-24x25CF TRAVELITE V

TRAVELITE EX Series 8x25CF/9x25CF/10x25CF/12x25CF



- Waterproof (up to 2m/6.6 ft. for 5 minutes) and fog-free with nitrogen gas
- Aspherical eyepiece lens eliminates image distortion
- High-eyepoint design provides a clear field of view for those who wear eyeglasses
- Close focusing distance: 2.8m
- Multilayer-coated lenses for brighter images
- Turn-and-slide rubber eyecups facilitate easy positioning of eyes at the correct eyepoint
- Eco-glass optics are free of lead and arsenic



TRAVELITE EX 8x25CF

* For specifications, see pp 39-41.

Binoculars

HIGH-CLASS COMPACT



A hard act to follow

Compact size and sophisticated, stylish design mean that these models will perfectly complement those formal occasions when you need to look your best, whether it be attending theatre or concert performances. The short close focusing distance also makes these binoculars a natural for use in museums.



6x15M CF

6x15M CF/7x15M CF Black



- Stylish metal body
- Ultra-compact and lightweight
- Close focusing distance: 2m
- Multilayer-coated lens for bright images



6x15M CF

5x15DCF Titanium/7x15DCF Titanium



- Prism features high-reflection silver coating for brighter images
- Phase-correction-coated prisms for high resolution
- Multilayer-coated lenses
- High-eyepoint design for a clear field of view for wearers of eyeglasses (5x)
- Close focusing distance: 1.2m (5x), 1.5m (7x)
- Stylish titanium body
- Two types of rubber eyecups (for regular and eyeglass use)



7x15DCF Titanium

5x15 HG Monocular/7x15 HG Monocular



- Prism features high-reflection silver coating for brighter images
- Phase-correction-coated prisms for high resolution
- Multilayer-coated lenses
- High-eyepoint design (5x)
- Close focusing distance: 0.6m (5x), 0.8m (7x)



7x15 HG Monocular

* For specifications, see pp 40-41.

Binoculars

HUNTING AND OUTDOOR

Close in on your target with confidence

These waterproof, fog-free Nikon binoculars are just the ticket for outdoor use. Bright, beautifully defined images are delivered by superior quality, multilayer-coated lenses. O-ring seals and nitrogen gas provide added resistance to the effects of changes in climate, while the durable design and rubber armouring ensure reliable performance and a comfortable grip, even during prolonged use. Worry-free viewing of the great outdoors.



MONARCH Series 8x36DCF/10x36DCF/8x42DCF/10x42DCF/12x42DCF/8.5x56DCF/10x56DCF/12x56DCF



- All lenses and prisms are multilayer-coated for the brightest images
- Phase-correction-coated roof prisms for high resolution
- High-reflection mirror-coating prism for bright image
- High-eyepoint design provides a clear field of view, even for eyeglass wearers
- Close focusing distance: 2.5m (36mm/42mm models)
- Eco-glass optics that are free of lead and arsenic are used for all lenses and prisms
- Waterproof (up to 1m/3.3 ft. for 5 minutes) and fog-free with nitrogen gas
- Turn-and-slide rubber eyecups facilitate easy positioning of eyes at the correct eyepoint
- Rubber armoring for shock resistance and a firm, comfortable grip
- Lightweight body uses fibreglass-reinforced polycarbonate resin
- Wide strap
- Can be fixed to a tripod using optional tripod adaptor (see p 43)



MONARCH 8x42DCF

10x50CF WP



- Waterproof (up to 1m/3.3 ft. for 5 minutes) and fog-free with nitrogen gas
- Multilayer-coated large 50mm objective lens for a bright image
- High-eyepoint design
- Rubber armouring for shock resistance and a firm, comfortable grip
- Wide strap
- Can be fixed to a tripod using optional tripod adaptor (see pp 42-43)



10x50CF WP

Flip-down cap with tie prevents loss (except 8x36DCF).



MONARCH 8.5x56DCF



MONARCH 8x42DCF



MONARCH 8x36DCF

* For specifications, see pp 40-42.

Binoculars

MARINE

Go with the pro for smoother sailing

For top performance in a marine environment, Nikon binoculars are the way to go. All the models in our Marine lineup deliver crisp, brilliant images. They're sealed with O-rings and filled with nitrogen gas to minimise the effect of temperature changes, making them ideal for nautical applications. And selected models even feature a built-in compass to help keep you on course. Nikon's waterproof, weather-resistant binoculars — performance you can count on.

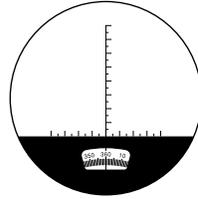


7x50IF WP Tropical

7x50CF WP/7x50CF WP Compass



- Central focusing system; waterproof (up to 1m/3.3 ft. for 5 minutes) and fog-free with O-ring seals and nitrogen gas
- Built-in compass with illuminator and scale (7x50CF WP Compass)
- High-eyepoint design for a clear field of view even for wearers of eyeglasses
- Multilayer-coated lenses for a bright image
- Rubber armouring for shock resistance and a firm, comfortable grip
- Floating strap provided
- Can be fixed to a tripod using optional tripod adaptor (see pp 42-43)



Compass and distance scale (for 7x50CF WP Compass)

You can measure dimensions or distances if you know one of the values.



Floating strap for 7x50CF WP/7x50CF WP Compass



7x50CF WP Compass

7x50IF WP/7x50IF WP Compass



- Waterproof (up to 2m/6.6 ft. for 5 minutes) and fog-free with nitrogen gas
- All lenses and prisms are multilayer-coated for the brightest images
- Rubber armouring for shock resistance and a firm, comfortable grip
- High-eyepoint design for a clear field of view even for wearers of eyeglasses
- Built-in compass and scale to ascertain subject direction, and distance or size (7x50IF WP Compass)
- Can be fixed to a tripod using optional tripod adaptor (see pp 42-43)

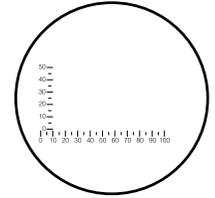


7x50IF WP Compass

7x50IF HP WP Tropical (Model with built-in scale available)



- Waterproof (up to 5m/16.4 ft. for 5 minutes) and fog-free with nitrogen gas
- Horizontal and vertical scales for measuring dimensions or distances (scale type)
- High-eyepoint design for a clear field of view
- Large objective diameter for bright image
- Can be fixed to a tripod using optional tripod adaptor (see p 42)
- Polarising filter and horn-shaped rubber eyecup are available (options)



Distance scale

You can measure dimensions or distances if you know one of the values.



7x50IF HP WP Tropical



10x70IF HP WP

10x70IF HP WP



- Waterproof (up to 2m/6.6 ft. for 5 minutes) and fog-free with nitrogen gas
- Large 70mm objective diameter meets demand for exceptionally bright, high magnification
- High-eyepoint design for a clear field of view
- Can be fixed to a tripod using optional tripod adaptor (see p 42)
- Polarising filter and horn-shaped rubber eyecup are available (options)



Polarising filter (option)

This filters out light reflections from water or glass.



Horn-shaped rubber eyecup (option)

Keeps light out of the eyepiece for easy viewing. Comfortable rubber cups are soft on your face, particularly good for use on bright days at sea and in other extreme conditions.

Usable models

- 7x50IF HP WP Tropical
- 7x50IF SP WP
- 10x70IF HP WP
- 18x70IF WP WF
- 10x70IF SP WP

* For specifications, see pp 42-43.

NATURE WATCHING

Celebrate nature

Whatever your pleasure — be it birdwatching, hiking, mountaineering, or marine pursuits — nothing compares with the raw, unspoiled beauty of nature. And nothing enables you to appreciate nature like Nikon high-performance binoculars. Available in the most extensive range of models and features, all deliver extraordinary resolving power while providing superb ergonomics; and all boast the technological expertise of the world leader in precision design.



8x30E II



8x30E II/10x35E II



- Optics employ Eco-glass containing no arsenic or lead
- Wide apparent field of view (63.2° for 8x30E II, 62.9° for 10x35E II)
- Close focusing distance: 3m (8x), 5m (10x)
- Lightweight, die-cast magnesium-alloy body
- All lenses and prisms are multilayer-coated
- Can be fixed to a tripod using optional tripod adaptor (see p 42)



7x50IF SP WP/10x70IF SP WP



- Superior optical design for aberration-free observation, built especially for astronomical use
- Multilayer-coated lenses for a bright image
- Waterproof up to 5m/16.4 ft. (2m/6.6 ft. for 10x70IF SP WP) for 5 minutes and fog-free with O-ring seals and nitrogen gas
- High-eyepoint design
- Can be fixed to a tripod using optional tripod adaptor (see p 42)
- Polarising filter and horn-shaped rubber eyecup are available (options, see p 19)



7x50IF SP WP

8x32SE CF/10x42SE CF/12x50SE CF



- All lenses and prisms are multilayer-coated for the brightest images
- Sharp, clear images to the lens periphery, thanks to Nikon's original field flattener lens and eyepiece design
- High-eyepoint design for a clear field of view
- Close focusing distance: 3m (8x32SE CF)
- Lightweight thanks to die-cast magnesium-alloy body
- Protein-compound rubber armouring for shock resistance and a firm, comfortable grip
- Can be fixed to a tripod using optional tripod adaptor (see p 42)



10x42SE CF

18x70IF WP WF



- Wide 64.3° apparent angular field of view
- All lenses are multilayer-coated for a bright image
- Waterproof (up to 2m/6.6 ft. for 5 minutes) and fog-free with O-ring seals and nitrogen gas
- High-eyepoint design
- Can be fixed to a tripod using optional tripod adaptor (see p 42)
- Polarising filter and horn-shaped rubber eyecup are available (options, see p 19)



18x70IF WP WF

* For specifications, see pp 42-43.





Scopes

A whole new world of discovery

Nikon offers a broad selection of the finest Fieldscopes, Spotting Scopes and interchangeable eyepieces, all delivering brilliant optical performance and rugged waterproof construction. What's more, Nikon leads the way in the fast-proliferating field of digiscoping with a stellar array of attachments and adaptors that marry our Fieldscopes and Spotting Scopes to the

globally acclaimed Nikon COOLPIX and Nikon D-series SLR digital cameras. Never before has it been so easy to capture such magnificent, electrifying close-ups of distant birds and wildlife — without having to carry along heavy telephoto lenses.



Scopes

Fieldsopes



Fieldscope ED82/Fieldscope ED82 A



- Large 82mm objective lens for the brightest image
- Extra-low dispersion (ED) glass for chromatic aberration compensation and brighter, clearer viewing
- All lenses and prisms are multilayer-coated for the brightest images
- Waterproof (up to 2m/6.6 ft. for 5 minutes) and fog-free with O-ring seals and nitrogen gas
- Built-in type slide hood
- Easy-to-use sight on the hood
- Angled body type for easy viewing and comfortable sketching (ED82 A)
- Eleven different eyepieces compatible (options, see p 26)



Fieldscope III/Fieldscope III A Fieldscope EDIII/Fieldscope EDIII A



- Waterproof (up to 2m/6.6 ft. for 5 minutes) and fog-free with O-ring seals and nitrogen gas
- All lenses and prisms are multilayer-coated for the brightest images
- Built-in type slide hood
- Angled body type for easy viewing and comfortable sketching (III A, EDIII A)
- Extra-low dispersion (ED) glass for chromatic aberration compensation and brighter, clearer viewing (EDIII, EDIII A)
- Eleven different eyepieces compatible (options, see p 26)



Fieldscope EDIII

* For specifications, see pp 44-45.

Scopes

Fieldsopes

Fieldscope ED50/Fieldscope ED50 A



- Compact and lightweight with 50mm-diameter ED (Extra-low Dispersion) objective lens to minimise chromatic aberration
- Available in straight or angled design
- Multilayer-coated lenses
- Waterproof (up to 1m/3.3 ft. for 5 minutes) and fog-free with nitrogen gas
- Choose from three colours — charcoal grey, pearlescent green and rose pink
- Compatible with six MC eyepieces and three Wide DS eyepieces (options)
- 55mm filter can be attached to objective lens



Fieldscope ED50 A (charcoal grey)



Fieldscope ED50 A (pearlescent green)



Fieldscope ED50 (charcoal grey)



Fieldscope ED50 (pearlescent green)



Hand-holding case for Fieldscope ED50 series

Eyepieces for Fieldsopes



20x/25x
MC eyepiece*



27x/40x/50x
MC eyepiece



24x/30x
wide MC eyepiece*



20x/30x/38x
wide MC eyepiece



27x/40x/50x
wide MC eyepiece



40x/60x/75x
wide MC eyepiece



13-30x/20-45x/25-56x
MC zoom eyepiece



13-40x/20-60x/25-75x
MC II zoom eyepiece



16x/24x/30x
Wide DS eyepiece



27x/40x/50x
Wide DS eyepiece



40x/60x/75x
Wide DS eyepiece

* Not recommended for Fieldscope ED50/ED50A.

Note: For compatibility with Fieldscope models, see pp 44-45.

* For specifications, see pp 44-45.

Scopes

Spotting Scopes



Spotting Scope RA III 82 WP/Spotting Scope RA III 82 A WP Spotting Scope RA III 65 WP/Spotting Scope RA III 65 A WP

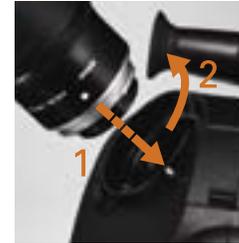


- Trim body with a large-diameter lens
- Large objective lens for a brighter field of view
- All lenses, prisms and eyepieces are multilayer-coated
- Waterproof (up to 2m/6.6 ft. for 5 minutes) and fog-free with O-ring seals and nitrogen gas
- Bayonet-type eyepiece mount with locking system enables quicker, more secure eyepiece connections
- Six high-eyepoint eyepieces available, with turn-and-slide eyecups
- Comes with detachable Target Sight TGS-1 for quick-and-easy targeting
- Built-in sliding hood
- Available in two colours, charcoal grey and olive green
- Rubber armouring for shock resistance
- Objective lens cap with tie to prevent loss can be attached to the cap-retaining hook on the hood



Spotting Scope RA III 82 A WP
(charcoal grey)

Bayonet-type eyepiece
mount with locking system



Spotting Scope RA III 65 WP
(olive green)

Nikon Target Sight TGS-1

Features

- Enables easy targeting
- Attaches to Spotting Scope RA III WP Series
- Long eye relief
- Fixed focus
- Small and lightweight
- Water resistant with O-ring seals
- Lead- and arsenic-free Eco-glass
- Compatible with Eyepieces* for Spotting Scope RA III WP Series

* Except at high magnification with Zoom Eyepiece

Detachable Target Sight TGS-1

Each scope is equipped with a special detachable sight for quick-and-easy targeting without adjustment.



Eyepieces for Spotting Scopes



16-48x/20-60x
Zoom eyepiece



20x/25x
eyepiece



20x/25x LER
eyepiece



30x/38x Wide
eyepiece



16-48x/20-60x
Zoom DS eyepiece



20x/25x
DS eyepiece

Spotter XL II



- Waterproof (up to 2m/6.6 ft. for 5 minutes) and fog-free with nitrogen gas
- Phase-correction-coated roof prism for high resolution
- All lenses and prisms are multilayer-coated for the brightest images
- High-eyepoint design (19mm)
- Built-in type slide hood with sight
- Compact and lightweight
- Rubber armouring



Spotter XL II

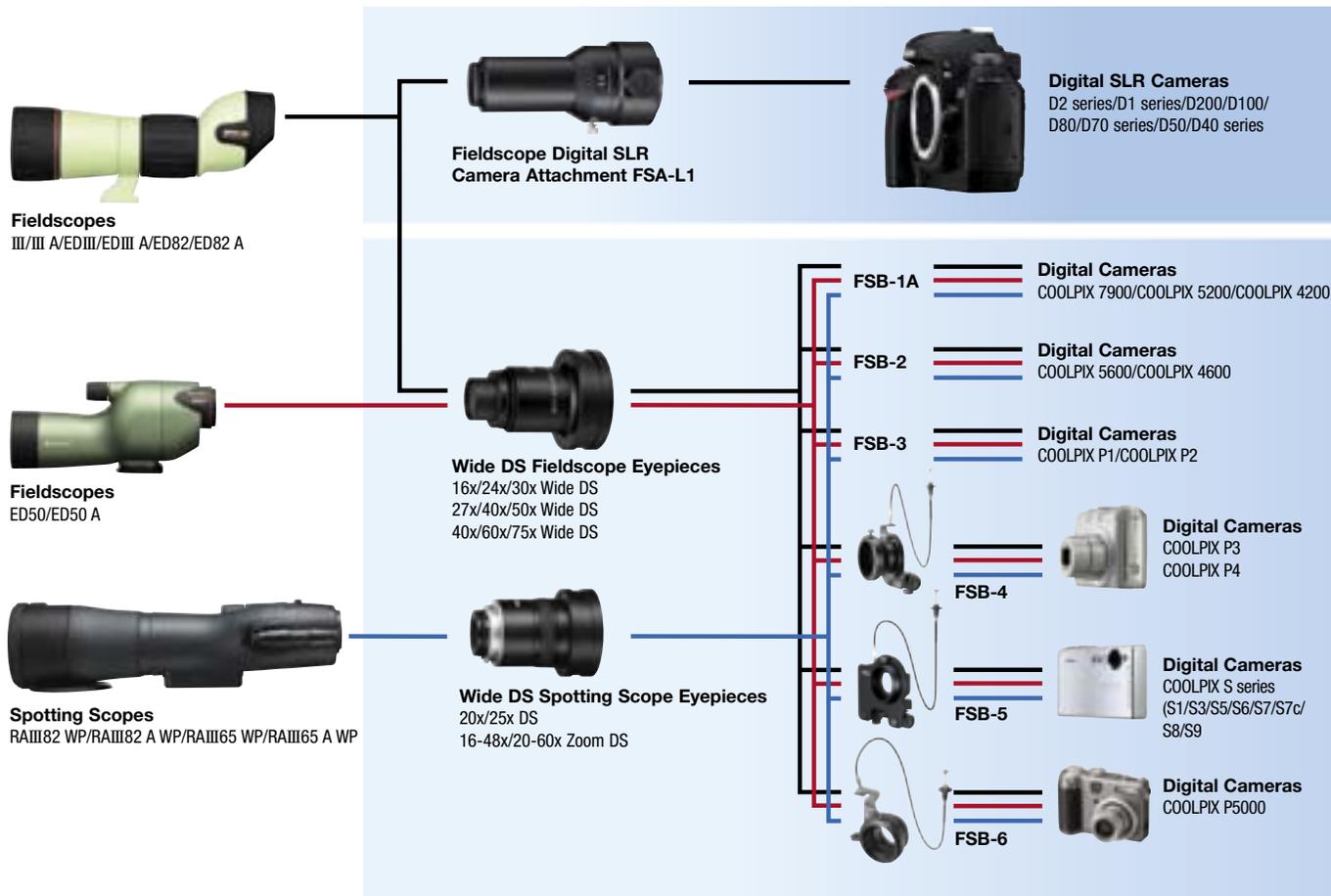
* For specifications, see pp 44-45.

Scopes

Digiscoping System

This convenient system makes it possible to record images viewed through a Fieldscope or Spotting Scope. Connecting a Fieldscope with an attachment for a Nikon digital SLR camera, or a Fieldscope/Spotting Scope with a bracket for a Nikon COOLPIX series camera makes it easy for the user to capture super-telephoto images.

For product details, see "Nikon Digiscoping System" catalogue.



Universal Bracket
 Enables you to connect a Fieldscope or Spotting Scope to a 35mm [135] format camera, digital camera or video camera, and record images without having to use an exclusive attachment and attachment ring.

Laser Rangefinders

The measure of excellence

Nikon Laser Rangefinders are enjoying rapidly increasing popularity for applications ranging from golf to hunting and marine work, enabling quick, effortless measurements in metres or yards. For golf, in particular, recent revisions allowing their use in competitive play (where local

rules permit) have ushered in a new era, and a renewed passion for accuracy. Choose from five models, all combining Nikon's unsurpassed optical expertise with sophisticated design and impressive portability.





Laser Rangefinders

Common features

- Accurate measurement resolution of $\pm 1\text{m/yd}$. (Laser 500G/600), $\pm 0.5\text{m/yd}$. (Laser 1200S*1/800S*2/400)
- High-quality 6x monocular with multilayer coating for bright, clear images (7x for Laser 1200S, 8x for Laser 400)
- High-eyepoint design affords eyeglass wearers easy viewing (except Laser 400)
- Simple one-touch measurement
- Compact, lightweight design enables easy, single-hand operation
- Dioptre adjustment function
- Capable of distancing different targets in succession by keeping the button pressed
- Wide temperature tolerance: -10°C to $+50^{\circ}\text{C}$

*1 At distances shorter than 20m/22 yd. or greater than 500m/550 yd., accuracy may not achieve $\pm 0.5\text{m/yd}$.

*2 At distances greater than 370m/400 yd., accuracy may not achieve $\pm 0.5\text{m/yd}$.



Hunting



Sailing



Golfing or caddying



Exploring ruins

Laser 1200S

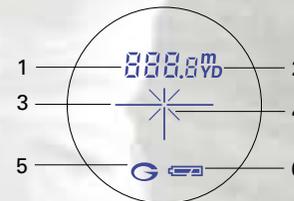
- Select from two measurement modes (Target Priority Switch System):
First Target Priority mode displays the range to the nearest target among multiple results obtained with a single measurement — useful when measuring the distance to a pin on a green with woods in the background.
Distant Target Priority mode displays the range to the farthest target among multiple results obtained with a single measurement — useful when hunting in heavily wooded areas.
- Measurement range: 10 - 1,100m (11 - 1,200 yd.)
- Waterproof — filled with nitrogen gas, sealed with O-rings
- LCD with backlight



Laser 1200S

Internal display

1. Distance
2. Unit of measure (m/yd.)
3. Reticle (—|—)
4. Laser irradiation (X)
5. First Target Priority mode
6. Battery condition



Laser 800S

- Select from two measurement modes (Target Priority Switch System):
First Target Priority mode displays the range to the nearest target among multiple results obtained with a single measurement — useful when measuring the distance to a pin on a green with woods in the background.
Distant Target Priority mode displays the range to the farthest target among multiple results obtained with a single measurement — useful when hunting in heavily wooded areas.
- Measurement range: 10 - 730m (11 - 800 yd.)
- Waterproof (up to 2m/6.6 ft. for 5 minutes) — filled with nitrogen gas, sealed with O-rings
- LCD with backlight



Laser 800S

Laser Rangefinders

Laser 500G

- Easy measurement of the distance to the pin makes it a great golf partner
- First Target Priority function incorporated:
This function displays the range to the nearest target among multiple results obtained by a single measurement — such as when measuring the distance to a pin on a green with woods behind it.
- Measurement range: 10 - 500m (11 - 550 yd.)
- Distance display:
10 - 99.5m (11 - 99.5 yd.): every 0.5m/yd.
100 - 500m (100 - 550 yd.): every 1m/yd.
- O-ring seals for water resistance



Laser 500G

Laser 400/Laser 600

- O-ring seals for water resistance
- Available in two body colours (silver/metallic black) (Laser 400 only)

Note: These models are recommended for applications other than golf.



Laser 600



Laser 400

Model	Laser 400	Laser 500G	Laser 600	Laser 800S	Laser 1200S
Magnification	8x		6x		7x
Effective diameter		20mm		21mm	25mm
Field of view		6.3°		6.0°	5.0°
Exit pupil	2.5mm		3.3mm	3.5mm	3.6mm
Eye relief	10.1mm		17mm	18mm	18.6mm
Distance display	10-100m/10.5-100 yd.: every 0.5m/yd. 100-400m/100-437 yd.: every 1m/yd.	10-99.5m/11-99.5 yd.: every 0.5m/yd. 100-500m/100-550 yd.: every 1m/yd.	Digitally displayed in LCD viewfinder 10-99.5m/11-99.5 yd.: every 0.5m/yd. 100-546m/100-600 yd.: every 1m/yd.	Every 0.5m/yd.	10-999.5m/11-999.5 yd.: every 0.5m/yd. 1,000-1,100m/1,000-1,200 yd.: every 1m/yd.
Measurement accuracy	±0.5m/yd.		±1m/yd.	±0.5m/yd.*2	±0.5m/yd.*1
Measurement range	10-400m/10.5-437 yd.	10-500m/11-550 yd.	10-546m/11-600 yd.	10 - 730m/11 - 800 yd.	10 - 1,100m/11 - 1,200 yd.
Power source	CR2 lithium battery x 1 (DC3V)				
	Auto power shutoff function equipped (after 8 sec.)				
Dimensions (L x W x H)	96 x 36 x 72mm		96 x 42 x 72mm	126 x 37 x 72mm	145 x 47 x 82mm
Weight (excluding battery)	195g		210g		280g
Safety and EMC	Class 1M laser product (IEC 60825-1:2001) Class 1 laser product (21CFR 1040.10 and 1040.11) CE; EMC directive, Fcc Part 15 subpart B class B				

*1 At distances shorter than 20m/22 yd. or greater than 500m/550 yd., accuracy may not achieve ±0.5m/yd.

*2 At distances greater than 370m/400 yd., accuracy may not achieve ±0.5m/yd.

Exceptional Optics for Specialised Needs

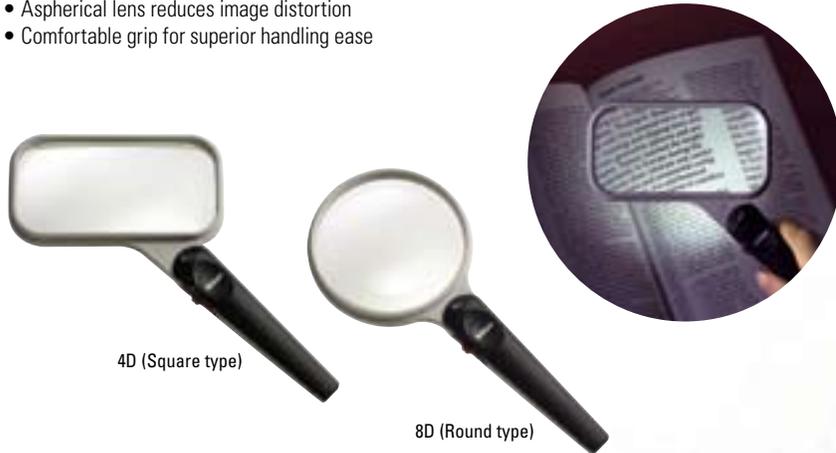
Dedicated applications demand the expert attention that only Nikon can deliver



Loupes

LED Lighting Loupes

- Small, high-quality white LED provides natural illumination across wide area
- Slim, compact, lightweight design
- Aspherical lens reduces image distortion
- Comfortable grip for superior handling ease



4D (Square type)

8D (Round type)

New Racket-Type Loupes

- Aspherical lens used to reduce image distortion
- Comfortable grip offers superior holding ease
- Highly sophisticated design
- Plastic, equiconvex aspherical lens features anti-scratch coating



4D (Square type)

8D (Round type)

Precision Loupe (for connoisseurs)

- Superior resolution of 63 lines/mm
- Airtight retractable lens is ideal for professional tasks
- Lens comprises three optical glass elements



Precision 10x

Effective diameter	13mm
Focusing distance	25mm
Magnification	10x (±1%)
Dimensions (L x W x H)*1	42 x 24 x 16mm
Weight	Approx. 15g

*1 When the lens is retracted to its original position.

Model	LED Lighting Loupes		New Racket-Type Loupes			
	4D	8D	4D	6D	8D	10D
Effective diameter	107x53.5mm	80mm	107x53.5mm	80x50mm	80mm	60mm
Refractive power	4 dioptre	8 dioptre	4 dioptre	6 dioptre	8 dioptre	10 dioptre
Reference magnification	1.5x	2x	1.5x	1.8x	2x	2.5x
Dimensions (L x D x H)	155 x 170 x 22mm	200 x 90 x 22mm	145 x 170 x 17mm	140 x 152 x 17mm	199 x 89 x 18mm	179 x 69 x 15mm
Weight	110g	95g	115g	95g	100g	65g

Pocket-Type Loupes

- Superior resolution
- Smaller size, greater portability
- Rotating lens for smooth retraction
- Choose the design and colour of your choice
- Optical glass, biconvex spherical lens

Pocket-Type T

Soft, elegant teardrop design

T12D
T16D
T20D*2



(Colour: Lilac/Burgundy)

Pocket-Type S

Stylish streamlined design

S12D
S16D
S20D*2



(Colour: Gold/Ebony)

*2 Available in three magnifications, using double-lens combinations

Model		12D	16D	20D (8D/12D)
Colour	T-type	Lilac/Burgundy		
	S-type	Gold/Ebony		
Effective diameter		32.5mm		
Refractive power		12 dioptre	16 dioptre	20 (8/12) dioptre
Reference magnification		3x	4x	5x (2x/3x)
Dimensions (L x W x H)	T-type	62 x 44 x 15mm		
	S-type	62 x 44 x 17mm		
Weight		25g	30g	35g

Binocular Telescopes / Sightseeing Binoculars



20x120 III Binocular Telescope

- Large 120mm objective diameter and Nikon's original coating for a bright image even in the dark
- Sharp image realised by aberration compensation
- Waterproof (up to 2m/6.6 ft. for 10 minutes), filled with nitrogen gas, fog-free and dust resistance
- Shock and corrosion-resistant structure
- High-eyepoint design for a clear field of view
- Easy handling with 360° azimuth and -30° ~ +70° tilting
- Height (with stand, binocular tubes in horizontal position): 440mm
- Rigid fixed-pillar stand (option) is available



20x120 III with pillar stand

Model	20x120III
Magnification	20x
Objective diameter	120mm
Angular field of view (Real)	3.0°
Angular field of view (Apparent)	55.3°
Field of view at 1,000m	52m
Exit pupil	6.0mm
Relative brightness	36.0
Eye relief	20.8mm
Close focusing distance	133.0m
Interpupillary distance adjustment	58-74mm
Weight	15.5kg*
Length	680mm*
Width	452mm*
Type	Porro

* Binocular body only

30x80 II Sightseeing Binoculars

- Periscope design for easy location of scenic highlights without manual focusing
- Flexible single-coin viewing time from one to five minutes
- Airtight construction
- Compact design with short eyepiece tube saves space
- Easy handling with 360° azimuth and -30° ~ +25° tilting

For requirements of local currency coin box and product modifications, contact your nearest authorised Nikon distributor. Language of user directions plate can be modified to suit local needs.



30x80 II Sightseeing Binoculars

Model	30x80II
Magnification	30x
Objective diameter	80mm
Angular field of view (Real)	1.7°
Angular field of view (Apparent)	48°
Field of view at 1,000m	29m
Exit pupil	2.7mm
Relative brightness	7.3
Eye relief	10.7mm
Close focusing distance	150m
Interpupillary distance adjustment	62mm(fixed)
Weight	42.0kg
Length	1,600mm
Width	450mm*
Type	Periscope

* Stand base size (W x D): 450 x 360mm



Fieldmicroscopes



EZ-Micro

- Enables photography with a Nikon COOLPIX digital camera
- Stereoscopic observation at 20x magnification
- Made with environmentally friendly materials
- Built-in illumination system
- Exclusive compact design for easy operation



EZ-Micro



EZ-Micro + FSB Bracket + COOLPIX Digital Camera

Model	EZ-Micro
Magnification	20x (fixed)
Optical system	Upright, unreversed image; eyepiece dioptre adjustable for both eyes; 51 to 72mm interpupillary distance adjustment
Field of vision	11mm diameter
Angle of view	12.6°
Vertical adjustment	38mm from the base of stage
Photographic optical system	Collimated light beam
Photographic magnification	Digital camera at widest angle: approx. 20x Digital camera at telephoto end: approx. 70x*
Eye relief	12.8mm
Plate	Removal and reversible (top: flat; underside: built-in cup)
Light source	Two white LEDs
Light settings	Three settings: off, one lamp, two lamps
Power source	One AA-size battery; approx. 10-hour battery life (alkaline battery at 20°C)
Dimensions	(In use) 162-202 (H) x 145 (D) x 106 (W) mm (Folded close) 138 (H) mm with lighting fitted
Weight	Approx. 635g (without battery)
Filters	M37 x 0.75mm thread filters can be attached
Accessories	Large carrying case; jointed strap

* Only when using COOLPIX P3 or P4, with output at A4 size. COOLPIX models S1/S3/S5/S6/S7c/S8/S9 at A4 output size offer 60x magnification.

Fieldmicroscope Fieldmicroscope Mini

- Compact, portable body
- 20x magnification
- Stereoscopic microscope
- Built-in illumination system (Fieldmicroscope)
- Water resistant (Fieldmicroscope Mini)



Fieldmicroscope



Fieldmicroscope Mini

Model	Fieldmicroscope	Fieldmicroscope Mini
Magnification	20x (fixed)	
Optical system	Upright, unreversed image, eyepiece dioptre adjustable for right eye	
Interpupillary distance adjustment	56-72mm	51-72mm
Field of vision	11mm diameter	
Vertical adjustment	50mm from the base of stage	42mm from the base of stage
Plate	Removal and reversible (top: flat; underside: built-in cup)	
Weight	Approx. 610g	Approx. 395g

StabilEyes

All StabilEyes models offer

- Reduced vibration for superior performance and steady view
- Fully multilayer-coated lenses for optimal brightness
- Phase-correction-coated prisms for high resolution
- Waterproof and fog-free with O-ring seals and nitrogen gas
- Ergonomic styling for comfortable grip, easy access to controls



14x40



- Two vibration reduction modes:
LAND mode for when footing is secure, to compensate for vibration from hand-shake and binocular movement when user follows a moving subject while studying nature or watching sports
ON BOARD mode for when footing is unstable due to strong vibration — for example, from an engine or strong wind
- Floating strap provided



StabilEyes 14x40

12x32/16x32



- Nikon's exclusive VR PAUSE button maintains a comfortable view while panning, tilting or following fast-moving objects
- Long eye relief design allows use with eyeglasses
- Turn-and-slide rubber eyecups
- Soft-to-the-touch neck strap included



StabilEyes 12x32

StabilEyes 16x32



Without vibration reduction

With vibration reduction



Without vibration reduction

With vibration reduction

Model	14x40	12x32	16x32
Magnification	14x	12x	16x
Vibration reduction system	Optical compensation by erecting prisms with gimballed frame		
Vibration compensation range	±5°	±3°	
Objective diameter	40mm	32mm	
Eye relief	13mm	15mm	
Dioptre adjustment	±2 dpt.	±3 dpt.	
Field of view (real)	4°	5°	3.8°
Field of view (apparent)	52.1°	55.3°	55.9°
Field of view at 1,000m	70m	87m	66m
Exit pupil	2.9mm	2.7mm	2.0mm
Relative brightness	8.4	7.3	4.0
Interpupillary distance adjustment	60-70mm	56-72mm	
Close focusing distance	5m	3.5m	
Dimensions (L x W x D)	186 x 148 x 88mm	178 x 142 x 81mm	181 x 142 x 81mm
Weight (without batteries)	1,340g	1,130g	1,120g
Operating temperature range	-10°C to +50°C		
Battery	DC 6V (four AA-type alkaline batteries)	DC 3V (two AA-type alkaline batteries)	
Battery life	Approx. 6 hours*		

*Continuous operation with AA-type alkaline batteries at normal temperature (20°C)

Note: Nikon has adopted a calculation method based on ISO 14132-1:2002, and therefore, values for the apparent field of view have changed from those previously stated. For details, see page

Technical Data

Binoculars and Scopes



Binoculars

HIGH GRADE



Model name	8x42HG L DCF	10x42HG L DCF	8x32HG L DCF	10x32HG L DCF	8x20HG L DCF
Magnification (x)	8	10	8	10	8
Objective diameter (mm)	42	42	32	32	20
Angular field of view (Real/degree)	7.0	6.0	7.8	6.5	6.8
Angular field of view (Apparent/degree)	52.1	55.3	57.2	59.2	50.8
Field of view at 1,000m (m)	122	105	136	114	119
Exit pupil (mm)	5.3	4.2	4.0	3.2	2.5
Relative brightness	28.1	17.6	16.0	10.2	6.3
Eye relief (mm)	20.0	18.5	17.0	16.0	15.0
Close focusing distance (m)	3.0	3.0	2.5	2.5	2.4
Interpupillary distance adjustment (mm)	56-72	56-72	56-72	56-72	56-72
Weight (g)	795	790	695	695	270
Length (mm)	157	157	129	129	96
Width (mm)	139	139	138	138	109 (65*)
Type	Roof	Roof	Roof	Roof	Roof

*Folded



Model name	Action 7-15x35CF Zoom (set at 7x)	Action 10-22x50CF Zoom (set at 10x)	Action EX 7x35CF	Action EX 8x40CF	Action EX 7x50CF
Magnification (x)	7-15	10-22	7	8	7
Objective diameter (mm)	35	50	35	40	50
Angular field of view (Real/degree)	5.5	3.8	9.3	8.2	6.4
Angular field of view (Apparent/degree)	37.2	36.7	59.3	59.7	42.7
Field of view at 1,000m (m)	96	66	163	143	112
Exit pupil (mm)	5.0	5.0	5.0	5.0	7.1
Relative brightness	25.0	25.0	25.0	25.0	50.4
Eye relief (mm)	8.7	8.6	17.3	17.2	17.1
Close focusing distance (m)	11.0	15.0	5.0	5.0	7.0
Interpupillary distance adjustment (mm)	56-72	56-72	56-72	56-72	56-72
Weight (g)	805	1,025	800	855	1,000
Length (mm)	138	197	120	138	179
Width (mm)	182	193	184	187	196
Type	Porro	Porro	Porro	Porro	Porro

*Folded

Note: Nikon has adopted a calculation method based on ISO 14132-1:2002, and therefore, values for the apparent field of view have changed from those previously stated. For details, see page 43.

STANDARD

						
10x25HG L DCF	Action 7x35CF	Action 8x40CF	Action 7x50CF	Action 10x50CF	Action 12x50CF	Action 16x50CF
10	7	8	7	10	12	16
25	35	40	50	50	50	50
5.4	9.3	8.2	6.4	6.5	5.5	4.1
50.5	59.3	59.7	42.7	59.2	59.9	59.6
94	163	143	112	114	96	72
2.5	5.0	5.0	7.1	5.0	4.2	3.1
6.3	25.0	25.0	50.4	25.0	17.6	9.6
15.0	11.9	11.9	17.6	11.8	9.7	12.3
3.2	5.0	5.0	8.0	7.0	7.0	9.0
56-72	56-72	56-72	56-72	56-72	56-72	56-72
300	715	760	980	970	960	990
112	123	143	189	184	179	184
109 (67*)	182	182	193	193	193	193
Roof	Porro	Porro	Porro	Porro	Porro	Porro

COMPACT

						
Action EX 10x50CF	Action EX 12x50CF	Action EX 16x50CF	SPRINT IV 8x21CF <Silver/Metallic black>	SPRINT IV 10x21CF <Silver/Metallic black>	Sportstar EX 8x25DCF <Silver/Charcoal grey>	Sportstar EX 10x25DCF <Silver/Charcoal grey>
10	12	16	8	10	8	10
50	50	50	21	21	25	25
6.5	5.5	3.5	6.3	5.0	8.2	6.5
59.2	59.9	52.1	47.5	47.2	59.7	59.2
114	96	61	110	87	143	114
5.0	4.2	3.1	2.6	2.1	3.1	2.5
25.0	17.6	9.6	6.8	4.4	9.6	6.3
17.2	16.1	17.8	11.3	8.6	10.0	10.0
7.0	7.0	7.0	3.0	3.0	2.5	3.5
56-72	56-72	56-72	56-72	56-72	56-72	56-72
1,020	1,045	1,040	240	230	280	280
178	178	177	93	87	103	103
196	196	196	117	117	114 (67)*	114 (67)*
Porro	Porro	Porro	Porro	Porro	Roof	Roof

Binoculars

COMPACT



Model name	EAGLEVIEW ZOOM 8-24x25CF (set at 8x)-Silver/Black	8x25CF TRAVELITE V	9x25CF TRAVELITE V	10x25CF TRAVELITE V	12x25CF TRAVELITE V
Magnification (x)	8-24	8	9	10	12
Objective diameter (mm)	25	25	25	25	25
Angular field of view (Real/degree)	4.6	5.6	5.6	5.0	4.2
Angular field of view (Apparent/degree)	35.6	42.7	47.5	47.2	47.5
Field of view at 1,000m (m)	80	98	98	87	73
Exit pupil (mm)	3.1	3.1	2.8	2.5	2.1
Relative brightness	9.6	9.6	7.8	6.3	4.4
Eye relief (mm)	13.0	14.0	12.2	11.1	11.1
Close focusing distance (m)	4.0	3.0	3.0	3.0	4.0
Interpupillary distance adjustment (mm)	56-72	56-72	56-72	56-72	56-72
Weight (g)	350	255	255	250	260
Length (mm)	119	115	113	110	110
Width (mm)	110	118	118	118	118
Type	Porro	Porro	Porro	Porro	Porro

HUNTING AND OUTDOOR



Model name	5x15DCF Titanium	7x15DCF Titanium	5x15 HG Monocular	7x15 HG Monocular	MONARCH 8x36DCF
Magnification (x)	5	7	5	7	8
Objective diameter (mm)	15	15	15	15	36
Angular field of view (Real/degree)	9.0	6.6	9.0	6.6	7.0
Angular field of view (Apparent/degree)	43.0	44.0	43.0	44.0	52.1
Field of view at 1,000m (m)	157	115	157	115	122
Exit pupil (mm)	3.0	2.1	3.0	2.1	4.5
Relative brightness	9.0	4.4	9.0	4.4	20.3
Eye relief (mm)	15.8	12.0	15.8	12.0	17.0
Close focusing distance (m)	1.2	1.5	0.6	0.8	2.5
Interpupillary distance adjustment (mm)	56-72	56-72	—	—	56-72
Weight (g)	200	190	75	75	570
Length (mm)	83/71*	79/71*	71	71	124
Width (mm)	103	103	30	30	129
Type	Roof	Roof	Roof	Roof	Roof

*The first number indicates the value with the normal eyecup, the second number when using the eyecup designed for eyeglass wearers.

Note: Nikon has adopted a calculation method based on ISO 14132-1:2002, and therefore, values for the apparent field of view have changed from those previously stated. For details, see page 43.

HIGH-CLASS COMPACT

						
8-24x25CF TRAVELITE V (set at 8x)	TRAVELITE EX 8x25CF	TRAVELITE EX 9x25CF	TRAVELITE EX 10x25CF	TRAVELITE EX 12x25CF	6x15M CF	7x15M CF Black
8-24	8	9	10	12	6	7
25	25	25	25	25	15	15
4.6	6.3	5.6	5.0	4.2	8.0	7.0
35.6	47.5	47.5	47.2	47.5	45.5	46.4
80	110	98	87	73	140	122
3.1	3.1	2.8	2.5	2.1	2.5	2.1
9.6	9.6	7.8	6.3	4.4	6.3	4.4
13.0	15.5	15.8	15.9	15.9	10.1	10.0
5.0	2.8	2.8	2.8	2.8	2.0	2.0
56-72	56-72	56-72	56-72	56-72	56-72	56-72
310	355	360	365	365	130	135
127	100	101	102	103	48	47
118	116	116	116	116	108	108
Porro	Porro	Porro	Porro	Porro	Porro	Porro

						
MONARCH 10x36DCF	MONARCH 8x42DCF	MONARCH 10x42DCF	MONARCH 12x42DCF	MONARCH 8.5x56DCF	MONARCH 10x56DCF	MONARCH 12x56DCF
10	8	10	12	8.5	10	12
36	42	42	42	56	56	56
6.0	6.3	6.0	5.0	6.2	6.0	5.5
55.3	47.5	55.3	55.3	49.4	55.3	59.9
105	110	105	87	108	105	96
3.6	5.3	4.2	3.5	6.6	5.6	4.7
13.0	28.1	17.6	12.3	43.6	31.4	22.1
15.0	19.6	15.5	15.4	19.2	17.4	16.3
2.5	2.5	2.5	2.5	10	10	10
56-72	56-72	56-72	56-72	60-72	60-72	60-72
575	615	615	625	1,140	1,155	1,180
122	146	143	146	197	197	197
129	129	129	129	144	144	144
Roof	Roof	Roof	Roof	Roof	Roof	Roof

Binoculars

HUNTING AND OUTDOOR



MARINE



Model name	10x50CF WP	7x50CF WP	7x50CF WP Compass	7x50IF WP	7x50IF WP Compass
Magnification (x)	10	7	7	7	7
Objective diameter (mm)	50	50	50	50	50
Angular field of view (Real/degree)	6.2	7.2	7.2	7.5	7.0
Angular field of view (Apparent/degree)	56.9	47.5	47.5	49.3	46.4
Field of view at 1,000m (m)	108	126	126	131	122
Exit pupil (mm)	5.0	7.1	7.1	7.1	7.1
Relative brightness	25.0	50.4	50.4	50.4	50.4
Eye relief (mm)	17.4	22.7	22.7	18.0	18.0
Close focusing distance (m)	17.0	10.0	10.0	25.0	25.0
Interpupillary distance adjustment (mm)	56-72	56-72	56-72	56-72	56-72
Weight (g)	1,065	1,100	1,120	1,170	1,210
Length (mm)	195	193	193	181	181
Width (mm)	207	202	202	203	203
Type	Porro	Porro	Porro	Porro	Porro



Model name	7x50IF SP WP	10x70IF SP WP	18x70IF WP WF
Magnification (x)	7	10	18
Objective diameter (mm)	50	70	70
Angular field of view (Real/degree)	7.3	5.1	4.0
Angular field of view (Apparent/degree)	48.1	48.0	64.3
Field of view at 1,000m (m)	128	89	70
Exit pupil (mm)	7.1	7.0	3.9
Relative brightness	50.4	49.0	15.2
Eye relief (mm)	16.2	16.3	15.4
Close focusing distance (m)	12.3	25.0	81.0
Interpupillary distance adjustment (mm)	56-72	56-72	56-72
Weight (g)	1,485	2,100	2,050
Length (mm)	217	304	293
Width (mm)	210	234	234
Type	Porro	Porro	Porro

Binocular Accessories

Tripod/monopod adaptors

Usable models

- Action series
- Action zoom series
- Action EX series
- 7x50CF WP/7x50CF WP Compass
- 7x50IF WP/7x50IF WP Compass
- 10x50CF WP



Usable models

- 7x50IF HP WP Tropical
- 8x32SE CF/10x42SE CF/12x50SE CF
- 18x70IF WP WF
- 7x50IF SP WP/10x70IF SP WP
- 10x70IF HP WP
- 8x30E II/10x35E II



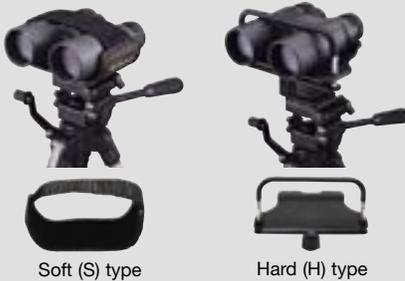
Note: Nikon has adopted a calculation method based on ISO 14132-1:2002, and therefore, values for the apparent field of view have changed from those previously stated. For details, see below.

NATURE WATCHING

						
7x50IF HP WP Tropical	10x70IF HP WP	8x30E II	10x35E II	8x32SE CF	10x42SE CF	12x50SE CF
7	10	8	10	8	10	12
50	70	30	35	32	42	50
7.3	5.1	8.8	7.0	7.5	6.0	5.0
48.1	48.0	63.2	62.9	55.3	55.3	55.3
128	89	154	122	131	105	87
7.1	7.0	3.8	3.5	4.0	4.2	4.2
50.4	49.0	14.4	12.3	16.0	17.6	17.6
15.0	15.0	13.8	13.8	17.4	17.4	17.4
24.5	50.0	3.0	5.0	3.0	5.0	7.0
56-72	56-72	56-72	56-72	53-73	53-73	53-73
1,360	1,985	575	625	630	710	900
217	304	101	126	116	149	182
210	234	181	183	183	192	202
Porro	Porro	Porro	Porro	Porro	Porro	Porro

Usable models

- 8x42HG L DCF
- 10x42HG L DCF
- 8x32HG L DCF
- 10x32HG L DCF
- MONARCH series



TRA-3

Usable models

- MONARCH series
- Action series
- Action zoom series
- Action EX series
- 7x50CF WP/7x50CF WP Compass
- 7x50IF WP/7x50IF WP Compass
- 10x50CF WP



Values for Apparent Field of View

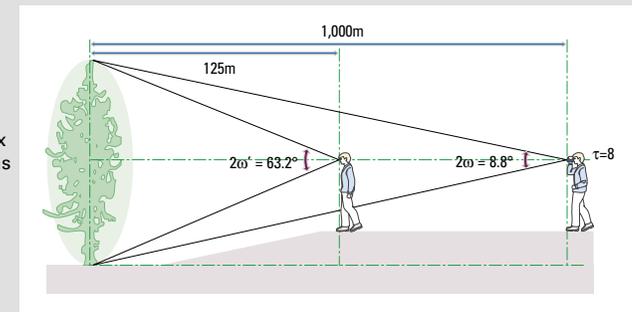
With the conventional method used previously, the apparent field of view was calculated by multiplying the real field of view by the binocular magnification. After revision, Nikon's figures are now based on the ISO 14132-1:2002 standard, and obtained by the following formula:

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

Apparent field of view: $2\omega'$
 Real field of view: 2ω
 Magnification: τ

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

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



Referring to the ISO 14132-2:2002 standard that was established at the same time as the abovementioned ISO 14132-1:2002, Nikon has determined that wide-viewfield binoculars must provide an apparent field of view over 60°.

Scopes



Model name	Objective diameter (mm)	Length (mm)*	Width (mm)*	Weight (g)*
Fieldscope ED82	82	327	108	1,575
Fieldscope ED82 A	82	339	108	1,670
Fieldscope III	60	279	80	1,080
Fieldscope III A	60	291	94	1,180
Fieldscope ED III	60	279	80	1,090
Fieldscope ED III A	60	291	94	1,190
Fieldscope ED50	50	209	71	455
Fieldscope ED50 A	50	207	71	470
Spotting Scope RA III 65 WP	65	293	105	900
Spotting Scope RA III 65 A WP	65	304	105	920
Spotting Scope RA III 82 WP	82	380	114	1,200
Spotting Scope RA III 82 A WP	82	391	114	1,220
Spotter XL II	60	313	74	885

*Body only (except Spotter XL II)

Eyepieces for Fieldsopes

Model name	Magnification (x)	Angular field of view (Real/degree)	Angular field of view (Apparent/degree)	Field of view at 1,000m (m) (approx.)
20x/25x MC				
With III/III A/ED III/ED III A	20	3.0	55.3	52
With ED82/ED82 A	25	2.4	55.3	42
27x/40x/50x MC				
With ED50/ED50 A	27	1.7	42.0	30
With III/III A/ED III/ED III A	40	1.1	42.0	19
With ED82/ED82 A	50	0.9	42.0	16
24x/30x wide MC*2				
With III/III A/ED III/ED III A	24	3.0	64.3	52
With ED82/ED82 A	30	2.4	64.3	42
20x/30x/38x wide MC*1*2				
With ED50/ED50 A	20	3.6	64.3	63
With III/III A/ED III/ED III A	30	2.4	64.3	42
With ED82/ED82 A	38	1.9	64.3	33
27x/40x/50x wide MC*1*2				
With ED50/ED50 A	27	2.7	64.3	47
With III/III A/ED III/ED III A	40	1.8	64.3	31
With ED82/ED82 A	50	1.4	64.3	24
40x/60x/75x wide MC*1*2				
With ED50/ED50 A	40	1.8	64.3	31
With III/III A/ED III/ED III A	60	1.2	64.3	21
With ED82/ED82 A	75	1.0	64.3	17
13-30x/20-45x/25-56x MC zoom*1				
With ED50/ED50 A	13-30	3.0 (at 13x)	38.5 (at 13x)	52 (at 13x)
With III/III A/ED III/ED III A	20-45	2.0 (at 20x)	38.5 (at 20x)	35 (at 20x)
With ED82/ED82 A	25-56	1.6 (at 25x)	38.5 (at 25x)	28 (at 25x)
13-40x/20-60x/25-75x MC II zoom*1*2				
With ED50/ED50 A	13-40	3.0 (at 13x)	38.5 (at 13x)	52 (at 13x)
With III/III A/ED III/ED III A	20-60	2.0 (at 20x)	38.5 (at 20x)	35 (at 20x)
With ED82/ED82 A	25-75	1.6 (at 25x)	38.5 (at 25x)	28 (at 25x)
16x/24x/30x Wide DS*1*2				
With ED50/ED50 A	16	4.5	64.3	79
With III/III A/ED III/ED III A	24	3.0	64.3	52
With ED82/ED82 A	30	2.4	64.3	42
27x/40x/50x Wide DS*1*2				
With ED50/ED50 A	27	2.7	64.3	47
With III/III A/ED III/ED III A	40	1.8	64.3	31
With ED82/ED82 A	50	1.4	64.3	24
40x/60x/75x Wide DS*1*2				
With ED50/ED50 A	40	1.8	64.3	31
With III/III A/ED III/ED III A	60	1.2	64.3	21
With ED82/ED82 A	75	1.0	64.3	17

*1These eyepieces are not to be used for Fieldscope I series. *2Turn-and-slide rubber eyecup.
Note: All eyepieces can be used for Fieldscope II series and ED78 series.

Note: Nikon has adopted a calculation method based on ISO 14132-1:2002, and therefore, values for the apparent field of view have changed from those previously stated. For details, see page 43.

Eyepieces for Spotting Scope RA III WP Series

Exit pupil (mm)	Relative brightness	Eye relief (mm)	Weight (g)
3.0	9.0	15.2	75
3.3	10.9	15.2	75
1.9	3.6	9.4	35
1.5	2.3	9.4	35
1.6	2.6	9.4	35
2.5	6.3	15.1	145
2.7	7.3	15.1	145
2.5	6.3	17.9	160
2.0	4.0	17.9	160
2.2	4.8	17.9	160
1.9	3.6	17.8	165
1.5	2.3	17.8	165
1.6	2.6	17.8	165
1.3	1.7	17.0	175
1.0	1.0	17.0	175
1.1	1.2	17.0	175
3.8 (at 13x)	14.4 (at 13x)	12.9 (at 13x)	100
3.0 (at 20x)	9.0 (at 20x)	12.9 (at 20x)	100
3.3 (at 25x)	10.9 (at 25x)	12.9 (at 25x)	100
3.8 (at 13x)	14.4 (at 13x)	14.1 (at 13x)	150
3.0 (at 20x)	9.0 (at 20x)	14.1 (at 20x)	150
3.3 (at 25x)	10.9 (at 25x)	14.1 (at 25x)	150
3.1	9.6	18.7	170
2.5	6.3	18.7	170
7.5	7.3	18.7	170
1.9	3.6	17.8	180
1.5	2.3	17.8	180
1.6	2.6	17.8	180
1.3	1.7	17.0	190
1.0	1.0	17.0	190
1.1	1.2	17.0	190

Model name	Magnification (x)	Angular field of view (Real/degree)	Angular field of view (Apparent/degree)	Field of view at 1,000m (m) (approx.)	Exit pupil (mm)	Relative brightness	Eye relief (mm)	Weight (g)
16-48x/20-60x Zoom								
With RA III 65/65 A WP	16-48	2.4 (at 16x)	37.1 (at 16x)	42 (at 16x)	4.1 (at 16x)	16.8 (at 16x)	15.2 (at 16x)	185
With RA III 82/82 A WP	20-60	1.9 (at 20x)	37.1 (at 20x)	33 (at 20x)	4.1 (at 20x)	16.8 (at 20x)	15.2 (at 20x)	185
20x/25x LER								
With RA III 65/65 A WP	20	2.0	38.5	35	3.3	10.9	31.8	170
With RA III 82/82 A WP	25	1.6	38.5	28	3.3	10.9	31.8	170
20x/25x								
With RA III 65/65 A WP	20	2.5	47.2	44	3.3	10.9	18.0	130
With RA III 82/82 A WP	25	2.0	47.2	35	3.3	10.9	18.0	130
30x/38x Wide								
With RA III 65/65 A WP	30	2.2	59.9	38	2.2	4.8	19.3	180
With RA III 82/82 A WP	38	1.8	59.9	31	2.2	4.8	19.3	180
16-48x/20-60x Zoom DS								
With RA III 65/65 A WP	16-48	2.4 (at 16x)	37.1 (at 16x)	42 (at 16x)	4.1 (at 16x)	16.8 (at 16x)	15.2 (at 16x)	205
With RA III 82/82 A WP	20-60	1.9 (at 20x)	37.1 (at 20x)	33 (at 20x)	4.1 (at 20x)	16.8 (at 20x)	15.2 (at 20x)	205
20x/25x DS								
With RA III 65/65 A WP	20	2.5	47.2	44	3.3	10.9	18.0	140
With RA III 82/82 A WP	25	2.0	47.2	35	3.3	10.9	18.0	140

Eyepiece for Spotter XL II

Model name	Magnification (x)	Angular field of view (Real/degree)	Angular field of view (Apparent/degree)	Field of view at 1,000m (m) (approx.)	Exit pupil (mm)	Relative brightness	Eye relief (mm)	Weight (g)
Spotter XL II	16-48	2.3 (at 16x)	35.6 (at 16x)	40 (at 16x)	3.8 (at 16x)	14.4 (at 16x)	19.0 (at 16x)	—

Nikon Target Sight TGS-1

Magnification (x)	1	Exit pupil (mm)	3
Effective objective diameter (mm)	8	Relative brightness	9.0
Angular field of view (Real/degree)	9.5	Eye relief (mm)	43.1
Angular field of view (Apparent/degree)	9.5	Length x width (mm)	57 x 26
Field of view at 1,000m (m)	166	Weight (g)	21

Understanding Binoculars

Binocular performance

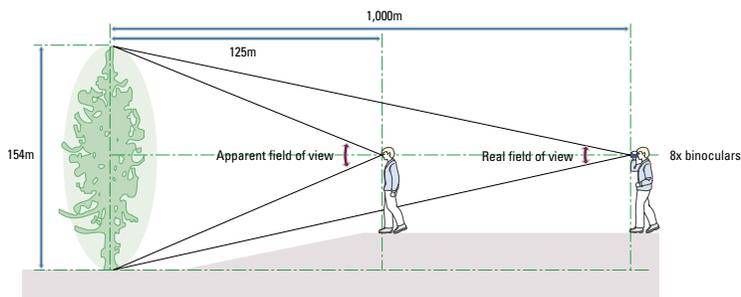
Three major elements play a vital role in binocular performance — magnification, field of view and brightness. Magnification is often regarded as the most important, but field of view and brightness are also crucial.

Magnification

Magnification, represented by a numerical value, is the relationship between a subject's real proportions and its magnified size. A subject 700 metres away seen with 7x magnification appears as it would from 100 metres with the naked eye. Magnifications less than 5x are generally not powerful enough for outdoor use. When magnification exceeds 12x, hand movement makes the image unstable and viewing uncomfortable. For general use, magnifications of 6x to 10x are recommended.

Field of view

The real field of view is the angle of the viewing field measured from the central point of the objective lens. All binoculars use numbers that indicate various specifications. In "8 x 40 8.8°", for example, 8.8° represents the real field of view. The apparent field of view* conveys how wide that field of view appears to the naked eye. The real field of view at 1,000 metres is the width of the visible area at a distance of 1,000 metres.



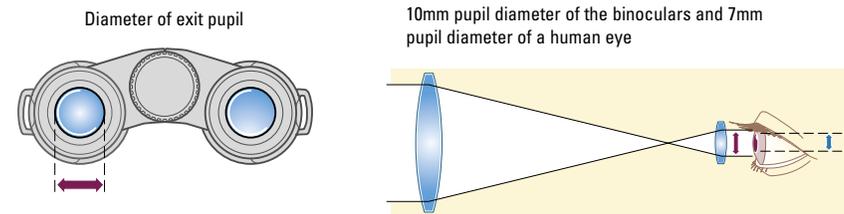
* Nikon has adopted a calculation method based on ISO 14132-1:2002, and therefore, values for the apparent field of view have changed from those previously stated. For details, see page 43.

Objective diameter

The effective aperture is the inside diameter (in mm) of the objective (front) lens frame. The larger the objective diameter, the greater the resolving power and the brighter the image. But large-diameter objective lenses make binoculars heavier, so 50mm is the general limit for manual operation.

Exit pupil

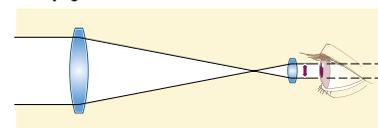
The exit pupil is the image formed by the eyepiece lenses. The diameter of the exit pupil (in mm) is the effective aperture divided by magnification. The diameter of the human eye pupil varies from 2-3mm in daylight to 7mm in the dark. An exit pupil of 7mm gives maximum light to the dilated eye and is ideal for use in the dark.



Brightness

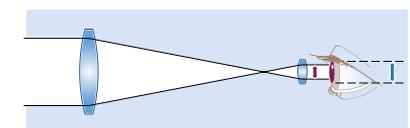
Relative brightness value is obtained by squaring the diameter of the exit pupil. The greater the relative brightness, the brighter the image. However, this value does not correspond exactly to increases in brightness over the naked eye, because light coming through the binoculars is 100% effective only if the exit pupil is the same diameter as the pupil of the eye.

In daylight

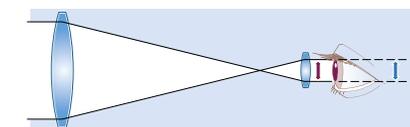


Exit pupil diameter: 2.9mm
Pupil diameter of human eye: 2 to 3mm

In darkness



Exit pupil diameter: 2.9mm
Pupil diameter of human eye: 7mm



Exit pupil diameter: 7.1mm
Pupil diameter of human eye: 7mm

The Nikon Advantage

Superior optics and design innovations ensure better views.

Nikon HG L series binoculars use the best optical technologies

For bright, high-contrast images

• Nikon's original multilayer coating

Minimises flare and ghosts, for very high transmission across a wide range of wavelengths. The result: excellent contrast and colour reproduction.

• Phase correction coating

Corrects phase shifts caused when light reflects off the roof (Dach) prism. Provides a high-contrast image by eliminating the reduction of resolution.

• High-reflection silver coating

Much greater reflectivity and much less light loss from the prism, compared with ordinary aluminium coating, for brighter images.

For sharp, undistorted images

• Field flattener lens

Employed for eyepiece lens. Provides images that are sharp and clear all the way to the lens periphery.

• Distortion correction

Nikon's superb optical design provides high-level distortion correction enabling sharp, undistorted images even at the viewing area periphery.

Easy to use

• High-eyepoint design

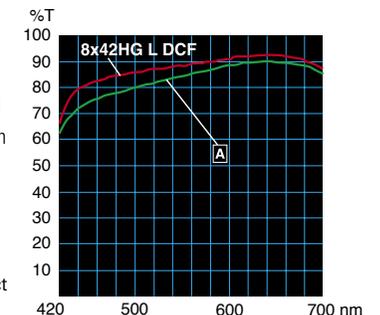
Sophisticated design technology achieves a combination of high eyepoint and small size.



Light transmission rates

Generally speaking, the higher the light transmission rate of a lens, the brighter and clearer your image will be, with less blur and ghosts. Each of Nikon's high-grade binocular models features a high light transmission rate thanks to our multilayer-coated lenses and prisms.

▣ Nikon conventional product
Source: Nikon (actual value)



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