



LIVE LIFE LARGER 2009-2010

Nikon Sport Optics



A vision you can *feel*

You've been out for the better part of the afternoon, and before long the sun will be setting. You cherish these opportunities to connect with the elements. Indeed, there's nothing that compares.

And then you see it... You raise your binoculars in an effortless sweep and a chill runs down your spine. How many times has it been, yet you're continually amazed at the utter magnificence of these moments. And your always-extraordinary Nikon optics seem to only get better.

A magical synergy of the very finest materials and coatings, with brilliant, sharply defined images across the entire surface of the lens. Fused with precision ergonomics that unfailingly guide you to the action. And the knowledge that you have what it takes, in any situation, to experience the ultimate vision.





Why Nikon?



Exacting precision across a full spectrum of optical technologies

Widely acknowledged as the global leader in precision optics, Nikon's roots go back to the development of our first binoculars in 1917. Since then, Nikon has continued to build on the knowhow of generations of optical and precision technology experts with an enduring passion for quality and innovation. Day in and day out, our products are tested in the world's most demanding environments and beyond, to outer space. Using Nikon cameras and NIKKOR lenses, photographers around the globe capture moments that no one could otherwise envision. While Nikon engineers of semiconductor-manufacturing equipment employ our optics to create the world's most precise instrumentation. For Nikon, delivering a peerless vision is second nature, strengthened over the decades through constant application. At Nikon Sport Optics, our mission is not just to meet your demands, but to exceed your expectations.

Our commitment to deliver proven, superior products

Nikon has come up with a simple rule for designing and developing our sport optics products: apply the best materials, the strictest quality controls, the most environment-sustaining engineering and superior lens coating technologies to achieve the very finest

optics. The benefits of this pledge have never been clearer. Maximum light transmission, superior resolution and better-defined contrast are balanced to perfection, free of aberration, in every stunning view. Because at the heart of each optical system is an invincible integrity that makes it what it is — a Nikon.

Large, diverse lineup to meet your every viewing need

Viewing distant subjects up-close with sport optics can be an exhilarating experience. The optimum experience remains a subjective one, however, with countless variables. That's why Nikon offers the most extensive line of binoculars and scopes on the market. Whether your aim is serious birdwatching, stargazing, professional sea navigation, hunting, nature watching, travel, the theatre, or just weekend fun, there's a Nikon Sport Optics model designed to meet your needs. And our ongoing collaboration with other Nikon technologies adds even further to your viewing excitement, letting you capture those precious moments with the Nikon Digiscoping System, for example, or measure distances with speed and ease using one of our laser rangefinders. Read on and discover the tools that can help you live life larger.



Binocular basics

Performance factors

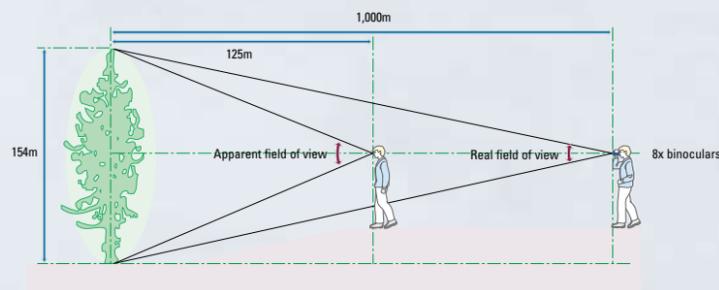
Nikon offers an extensive lineup of binoculars — including several of the world's most popular series — for a diverse range of applications. Each model features various technical specifications that can help you in making the right selection. Magnification is usually considered most important, but field of view, brightness, ease of handling (weight, feel, ergonomics), suitability for eyeglass wearers and overall construction should also be taken into account.

Magnification

Magnification, represented by a numerical value, is the relationship between a subject's actual proportions and its magnified size. With 7x magnification, for example, a subject 700 metres distant appears as it would when viewed from 100 metres with the naked eye. As a rule, magnifications of 6x to 10x are recommended for handheld outdoor use. With magnifications of 12x or greater, any shaking by hand movement is more likely to create an unstable image and uncomfortable viewing.

Field of view

All binoculars use number codes to designate various specifications. In "8x40 8.8°", for example, "8.8°" represents the *real* field of view, which is the angle of the viewing field measured from the central point of the objective lens. The *apparent* field of view, on the other hand, conveys how wide that field of view appears to the naked eye. The real field of view at 1,000 metres listed in the specifications is the width of the visible area at a distance of 1,000 metres.



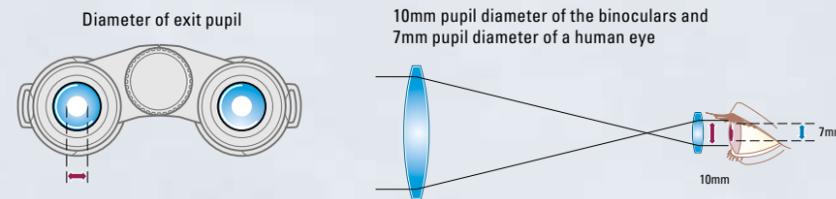
* Nikon has adopted a calculation method based on ISO 14132-1:2002, and therefore, values for the apparent field of view have changed from those previously stated. For details, see page 44.

Objective lens diameter

The objective lens diameter, combined with the quality of lens and prism coatings, determines the amount of light gathered to form an image. If you are regularly observing in poor light conditions, such as early dawn or dusk, or in forested areas, you may need a larger objective lens. But large-diameter objective lenses make binoculars heavier, so 50mm is the general limit for handheld use.

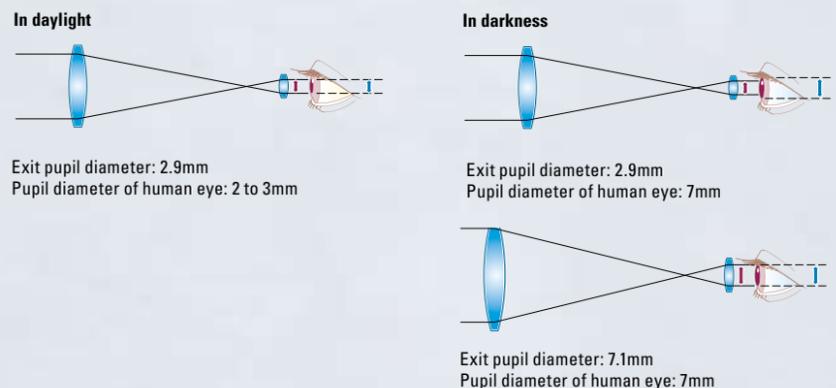
Exit pupil

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 the 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 twilight and at night.



Brightness

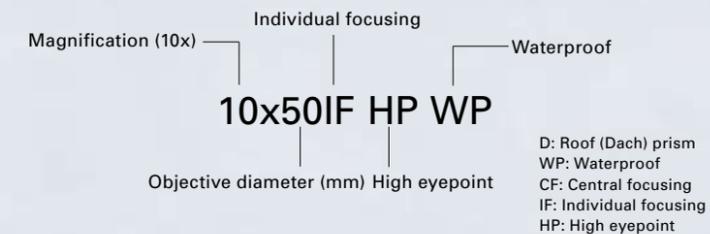
The relative brightness value is obtained by squaring the diameter of the exit pupil. The greater the relative brightness, the brighter the image will be. However, this value does not correspond exactly to increases in brightness viewed with the naked eye because light coming through the binoculars is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



How to read the 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. (Nikon's superior lens coatings also play a vital role in improving lens brightness.) 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 real 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.

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



The following icons indicate the purpose for which 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 when you're up against the elements.



Birdwatching, nature watching

Binoculars with a wide field of view and 7x to 10x magnification are suited for general nature viewing. Observing whales or birds at a greater distance is more comfortable with 8x to 12x magnification models. For even closer views, Fieldscopes and Spotting Scopes are recommended.



Marine sports, fishing

Waterproofing and durability are essential for these activities. Enhanced brightness and a wide field of view are desirable, too. Models that feature vibration reduction are favoured for on-board use.



Spectator sports

Binoculars that feature a wide field of view and 7x to 10x magnification are handy for fast-moving sports. Zoom-type binoculars are convenient, too, enabling quick and easy changes in magnification to suit the viewing situation.



Hunting and outdoors

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



Travelling

Compact, lightweight models with midrange magnification and field of view are ideal for travelling.



Theatre

Compact models with magnification of 4x to 8x are recommended for theatre and concert use. To focus on a particular performer, 7x to 10x models are more appropriate.



Stargazing

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



Museum

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



For eyeglass wearers

Choose a high-eyepoint design so that eyeglass wearers can also enjoy a full, clear field of view.

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Binoculars

Up-close and real

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 select brilliant, impeccable optics that are ideal for your own particular needs.



High Grade

When only the best will do

Topping off Nikon's broad lineup of widely acclaimed binoculars, the six HG L series models are designed for unparalleled performance and comfort. Exacting lens and prism construction ensures sharper, brighter images to intensify your viewing experience. Other aspects, such as the finely tuned mechanics and optical design, work together to reveal subtle details you'd have otherwise missed.

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.



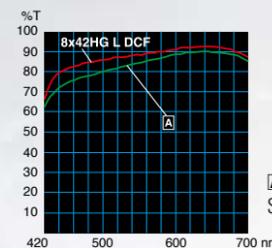
- Soft-touch silicon rubber eyecup
- Turn-and-slide rubber eyecups with multi-click* facilitate easy positioning of eyes at the correct eyepoint
- Large focusing ring makes for easier operation
- Every model is waterproof up to 2m/6.6 ft. (3m/9.8 ft. for 8x20HG L DCF/10x25HG L DCF) for 5 minutes and fog-free, with O-ring seals and nitrogen gas

- Made with environment-friendly materials
Non-PVC (polyvinyl chloride) materials are used for the body, eyepiece lens cap, objective lens caps, case and wide strap; Eco-glass optics free of lead and arsenic are used for all lenses and prisms
- Can be fixed to a tripod using optional tripod adaptor* (see p 44)

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

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)



© Maurizio Bachis



8x32HG L DCF

8x42HG L DCF/10x42HG L DCF



Supreme optical performance

- 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 design for greater ease of holding
- Eyepiece lens caps are connected for easy use



8x42HG L DCF

8x32HG L DCF/10x32HG L DCF



Advanced optical performance in a smaller size

- 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 design for greater ease of holding
- Eyepiece lens caps are connected for easy use



8x32HG L DCF

8x20HG L DCF/10x25HG L DCF



The ultimate in compact performance

- 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

* For specifications, see pp 38-39.

Action

A broader view of the action

Nikon's popular Action series comes with large objective lens diameters for a brighter field of view. Aspherical eyepiece lenses* provide sharp, undistorted images across the entire surface of the lens. The fast-handling rubber bodies are easy to grip, even with gloved hands. And the Action Zoom series lets you move in closer for amazing detail with fingertip zoom controls.

*Except Action Zoom series
*Available with 7x50CF/12x50CF only among Action EX series



© Vincent Munier



Action EX 8x40CF

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



A broad, clear view

- Aspherical eyepiece lens eliminates image distortion
- Multilayer-coated lenses and large objective diameter for optimal clarity of image
- Rubber armoring 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 p 44)



Action 8x40CF

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



The power to zoom in close

- Multilayer-coated lenses for a bright image
- Superior optical design ensures sharp images at any magnification
- Rubber armoring 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 p 44)



Action 7-15x35CF Zoom

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



A broader field of view in the most challenging conditions

- 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 armoring 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 p 44)



Action EX 8x40CF

* For specifications, see pp 39-40.

Hunting and Outdoor

Close in with confidence

Acclaimed throughout the world for their distinguished performance, these waterproof, fog-free Nikon binoculars are just the ticket for outdoor use. Superb multilayer-coated lenses deliver bright, beautifully defined images. Filled with nitrogen gas and sealed with O-rings, they withstand changes in weather conditions, while the durable design with rubber armoring ensures reliable performance and a comfortable grip, even after prolonged use. Experience a more vivid view of the great outdoors.

MONARCH X 8.5x45DCF/10.5x45DCF



Latest offering in the legendary MONARCH series delivers a new intensity of viewing experience

- Dielectric high-reflective multilayer prism coating assures uniform and high transmittance in full visible range for bright and natural color images
- All lenses and prisms are multilayer-coated for brighter images
- Phase-correction-coated roof prisms for higher resolution
- High-eyepoint design for a clear field of view, even for eyeglass wearers
- Waterproof (up to 1m/3.3 ft. for 10 minutes) and fog-free with O-ring seals and nitrogen gas
- Turn-and-slide rubber eyecups with multi-click facilitate easy positioning of eyes at the correct eyepoint
- Flip-down objective lens cap
- Lightweight, durable body uses polycarbonate resin reinforced with fibreglass and carbon fibre
- Can be fixed to a tripod using an optional tripod adaptor (see p 44)



MONARCH X 8.5x45DCF



MONARCH X 10.5x45DCF



© Vincent Munier

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



Renowned throughout the world for outstanding optical performance regardless of weather or light conditions

- 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 a 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 for 36mm/42mm models, soft-to-the-touch neck strap for 56mm models
- Flip-down objective lens cap (except 36mm models)
- Can be fixed to a tripod using optional tripod adaptor (see p 44)



MONARCH 8.5x56DCF



MONARCH 8x42DCF



MONARCH 8x36DCF

* For specifications, see pp 40-41.

Hunting and Outdoor



© Magnus Nyman

SPORTER EX 8x42/10x50



Waterproof, multi-use roof-type binoculars for beginners

- Waterproof (up to 1m/3.3 ft. for 10 minutes) and fog-free with nitrogen gas
- High-eyepoint design ensures a 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
- Eco-glass optics that are free of lead and arsenic are used for all lenses and prisms



SPORTER EX 10x50

10x50CF WP



Waterproof durability, even in harsh conditions

- 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 armoring for shock resistance and a firm, comfortable grip
- Wide strap
- Can be fixed to a tripod using optional tripod adaptor (see p 44)



10x50CF WP

* For specifications, see pp 40-41.

Elegant Compact

Up-close at concerts, the theatre and museums

Their compact size and stylish, sophisticated design mean that these models will perfectly complement those formal occasions when you need to look your best, whether at the theatre or concert performances.

The short close-focusing distance makes these binoculars a natural for use in museums, too.

6x15M CF/7x15M CF Black



Timeless performance and design

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



6x15M CF

5x15 HG Monocular/7x15 HG Monocular



Perfect for viewing masterpieces in sharp detail

- 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



6x15M CF

* For specifications, see p 41.

Compact

Strong performance in sleek designs

When you're on the go, convenience is everything. That's what makes Nikon's compact lineup so appealing — small enough to take anywhere, they're ideal for your next holiday, or at a concert or sporting event.



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



SPRINT IV Series 8x21CF/10x21CF



Lightweight portability, attractive styling and sharp, clear optics

- 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

EAGLEVIEW ZOOM 8-24x25CF



Compact binoculars with 3x zoom capability

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



Lightweight compact for more versatile use

- 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

Sportstar EX Series 8x25DCF/10x25DCF



Power to pull in the details, small enough for your pocket

- 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: Silver

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



Ideal basic compact for all-round use

- 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)



8-24x25CF TRAVELITE V

*Except for 8-24x25CF TRAVELITE V

Marine

Nikon professional for smoother sailing

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



7x50IF HP WP Tropical

7x50CF WP/7x50CF WP Compass

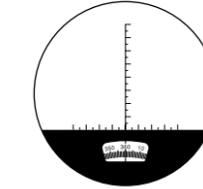


Easy focus on water or land

- 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 p 44)



7x50CF WP Compass



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

7x50IF WP/7x50IF WP Compass



Specially designed for maritime professionals

- 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 p 44)



7x50IF WP Compass

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

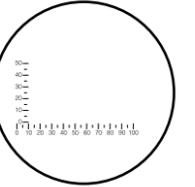


Trusted standard for fisheries and professional marine navigation

- 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 44)
- Polarising filter and horn-shaped rubber eyecup are available (options)



7x50IF HP WP Tropical



Distance scale

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



10x70IF HP WP

10x70IF HP WP



Extra magnification for maritime professionals

- 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 44)
- 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

The Standard for Advanced Nature Observation

Studying nature at its finest

High-performance binoculars widely acknowledged as the standard for specialised activities such as birdwatching and stargazing. Among the wide selection, the 8x32SE CF/10x42SE CF/12x50SE CF were designed to be the most optically advanced Porro prism binoculars in the world. The specially constructed eyepiece redefines optical clarity and sharpness. And in models designed for stargazing, you'll enjoy sharp, edge-to-edge resolution that exceeds your expectations.



8x30E II

8x30E II/10x35E II



The birdwatching standard, offering pristine panoramic views and easy locating of subjects

- 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 44)



8x30E II

7x50IF SP WP/10x70IF SP WP



Edge-to-edge sharpness for seafarers, stargazing

- 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 44)
- Polarising filter and horn-shaped rubber eyecup are available (options, see p 21)



7x50IF SP WP

8x32SE CF/10x42SE CF/12x50SE CF



Remarkable optical performance with comfortable handling and robust design

- 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 44)



10x42SE CF

18x70IF WP WF



Extra magnification for seafarers, stargazing

- 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 44)
- Polarising filter and horn-shaped rubber eyecup are available (options, see p 21)



18x70IF WP WF

Scopes

A whole new world of discovery

Nikon offers a broad selection of the finest Fieldsopes, Spotting Scopes and interchangeable eyepieces, all delivering peerless magnification through brilliant optics while featuring rugged, waterproof construction. The newest arrivals to this lineup, our EDG Fieldsopes and exclusively designed EDG Fieldscope Eyepieces, provide an out-of-the-ordinary advantage.



EDG Fieldsopes



© Vincent Munier

EDG Fieldscope 65/65-A EDG Fieldscope 85/85-A



The leading edge in high-end scopes

- Extra-low dispersion (ED) glass for chromatic aberration compensation and brighter, clearer viewing
- Phase-correction-coated roof prism for high resolution
- Dielectric high-reflective multilayer prism coating on roof prism for the brightest view (straight models only)
- All lenses and prisms are multilayer-coated for the brightest images
- Waterproof (up to 2m/6.6 ft. for 10 minutes) and fog free with nitrogen gas and O-ring seals (body-and-eyepiece joint is water-resistant)
- Stylish new design
- Three tripod mount screw holes provided for flexible mounting; optimum balance achieved through CAE (Computer Aided Engineering)
- Seven eyepieces exclusively for EDG Fieldsopes are optionally available
- Built-in sliding hood protects objective lens



EDG Fieldscope 65



EDG Fieldscope 65-A



EDG Fieldscope 85-A



Eyepieces for EDG Fieldsopes

- Seven kinds of new eyepieces for optimum optical performance
- Bayonet mount with lock for easy attachment and release
- Fully multilayer-coated
- Waterproof up to 2m for 10 min., and fog-free — thanks to O-rings and nitrogen gas (body-and-eyepiece joint is water-resistant)
- Turn-and-slide eyecup with three click stops: one for observing with the naked eye, one for observing with eyeglasses, and the other for digiscoping (except FEP-30W, FEP-25 LER and FEP-20-60)
- FEP-30W offers a choice of eyecup: soft rubber eyecup for observation and digiscoping eyecup for connection with Digital Camera Bracket FSB series
- FEP-25 LER has ultra-long 32.3mm eye relief
- FEP-20-60 featuring long eye relief of 18.4-16.5mm employs an aspherical lens to minimise image distortion
- Compact digital camera COOLPIX series* can be attached to eyepiece of FEP series (except FEP-20-60) with Digital Camera Bracket FSB series

*Compatible models of COOLPIX series are limited. See p 28.



* For specifications, see p 45.

Fieldsopes

Fieldscope ED82/Fieldscope ED82 A



Large-diameter Fieldscope features Nikon's ED glass for outstanding colour reproduction

- Large 82mm objective lens for the brightest images
- 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 and nitrogen gas
- Built-in slide hood
- Easy-to-use sight on the hood
- Angled body type for easy viewing and comfortable sketching (ED82 A)
- Compatible with eleven different eyepieces (options)



Fieldscope ED82 A

Fieldscope ED50/Fieldscope ED50 A



Nikon's smallest high-end scope features brilliant optics

- Compact and lightweight with 50mm-diameter ED (Extra-low Dispersion) objective lens to eliminate 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 two colours — charcoal grey and pearlescent green
- Compatible with six MC eyepieces and three Wide DS eyepieces (options)
- 55mm filter (P=0.75) can be attached to objective lens



Fieldscope ED50 A (charcoal grey)



Fieldscope ED50 (pearlescent green)



Hand-holding case for Fieldscope ED50 series (option)

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



Optimum viewing in a packable body

- 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 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)
- Compatible with eleven different eyepieces (options)



Fieldscope EDIII

Spotting Scopes

Spotting Scope RAIII 82 WP/Spotting Scope RAIII 82 A WP Spotting Scope RAIII 65 WP/Spotting Scope RAIII 65 A WP



Sharp, clear viewing and slim, durable, waterproof construction

- 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: four with turn-and-slide eyecup and two DS eyepieces for digiscoping
- 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 RAIII 82 A WP (charcoal grey)



Spotting Scope RAIII 65 WP (olive green)



© Vincent Munier

Detachable Target Sight TGS-1

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



Nikon Target Sight TGS-1

- Enables easy targeting
- Attaches to Spotting Scope RAIII 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 RAIII WP Series

* Except at high magnification with Zoom Eyepiece

Eyepieces for Fieldsopes



* Not recommended for Fieldscope ED50/ED50A.

These eyepieces can be used with EDG Fieldsopes via FS Eyepiece Mount Adaptor EMA-1.

* For specifications, see pp 46-47.

Eyepieces for Spotting Scopes



Spotter XL II



Precision spotting and lightweight construction

- 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 slide hood with sight
- Compact and lightweight
- Rubber armouring



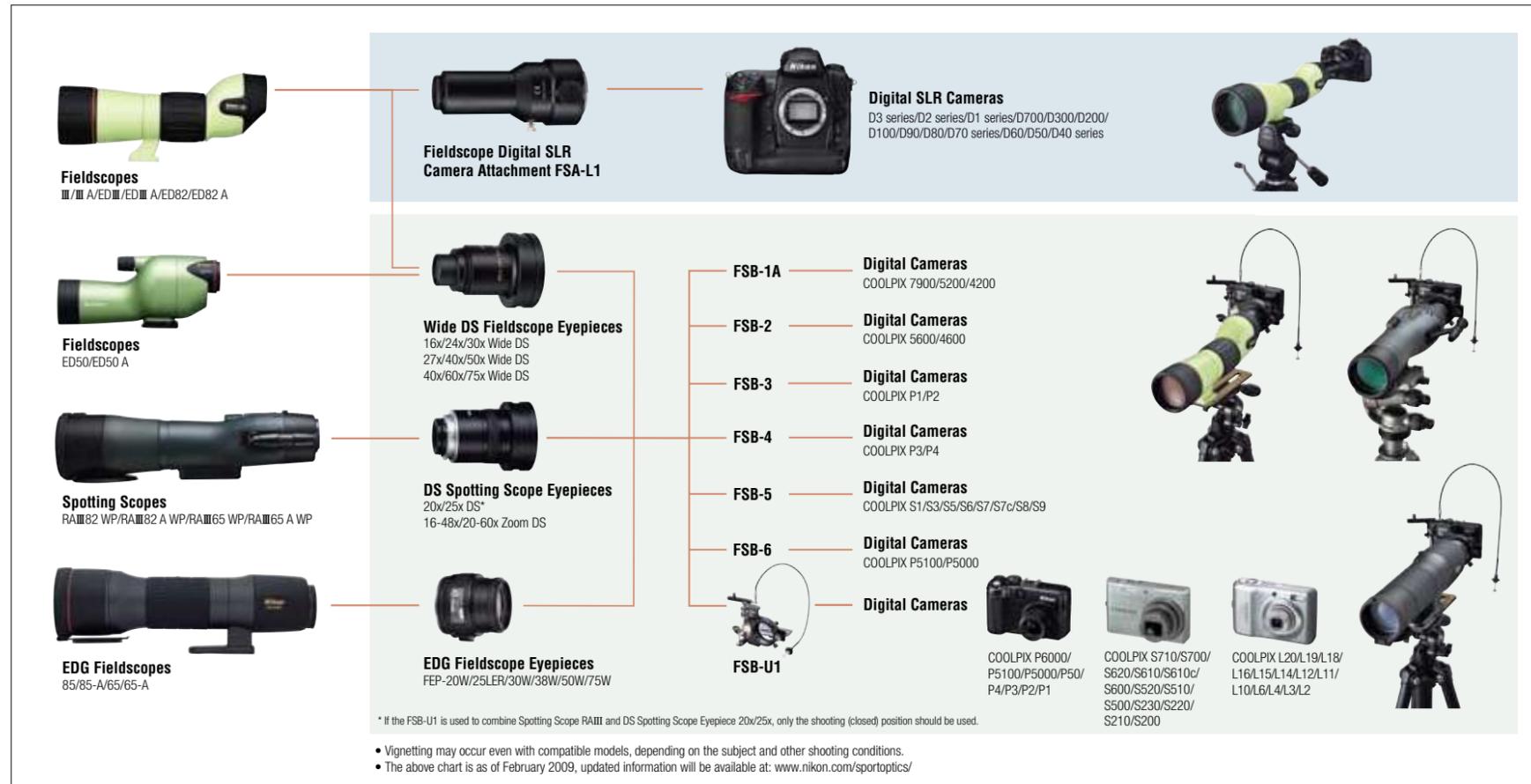
Spotter XL II

* For specifications, see pp 46-47.

Nikon Digiscoping System

A special synergy

Nikon leads the digiscoping field 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 has it been easier to capture such spectacular close-ups of distant birds and wildlife — without having to carry along heavy telephoto lenses. Now, thanks to the unrivalled communication between Nikon cameras and Nikon scopes, you'll achieve striking images in a way that no other system can offer.



Laser Rangefinders

The measure of excellence

Whether you're golfing, hunting or conducting forestry surveys, knowing the right distance is essential. Acclaimed throughout the world for superior optical technologies and leading-edge design, Nikon takes pride in delivering innovative products of the very highest quality. Our Laser Rangefinder lineup extends from a high-spec instrument with angle measurement functions to models designed for specific applications.



Laser Rangefinders

Features common to Nikon Laser Rangefinders

- Distance* measurement display step is 0.5m/yd.**
- High-quality 6x monocular with multilayer coating for bright, clear images (7x for Laser 1200S)
- High-eyepoint design affords eyeglass wearers easy viewing
- Compact, lightweight design enables easy, single-hand operation
- Dioptre adjustment function
- Capable of distancing different targets in succession by keeping the button pressed (single press of the button with Laser 350G)
- Waterproof (up to 1 metre for 10 minutes: Laser 550A S/ Forestry 550/550/350G, up to 2 metres for 5 minutes: Laser 1200S/800S), but not for underwater usage; the battery chamber is water resistant.
- Wide temperature tolerance: -10°C to +50°C

* Actual distance with Laser 550A S and Forestry 550.

** Increment of 0.5m/yd. applies according to each model and its distance range. See "Distance display (Increment)" in specifications.

Applications



Hunting*1



Sailing



Forestry surveys



Golfing or caddying*2



Exploring ruins

*1 Except Laser 350G
*2 Except Laser 550

Laser 550A S

Multifunction design with angle measurement

- Easy operation enables measurement of horizontal distances, height, angle and vertical separation (difference in height between two targets), in addition to the actual distance measurement function.
- The results are displayed on both an internal and an external LCD panel. The external panel shows all results simultaneously.
- 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 golfing for 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: 10-500m/11-550 yd.



Laser 550A S

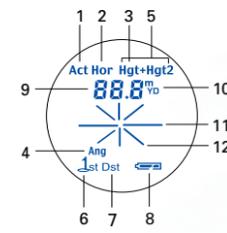
Model name	Laser 550A S
Measurement range	Distance:10-500m/11-550 yd. Angle: ±89°
Distance display (Increment)	[Internal Display] Act (Actual Distance): every 0.5m/yd. (shorter than 100m/yd.) every 1.0m/yd. (greater than 100m/yd.) Hor (Horizontal Distance) and Hgt (Height): every 0.2m/yd. (shorter than 100m/yd.) every 1.0m/yd. (greater than 100m/yd.) Ang (Angle): every 0.1° (less than 10°) every 1.0° (more than 10°) *Downward angle from the horizontal line: with display "--" [External Display] Act (Actual Distance): every 0.5m/yd. Hor (Horizontal Distance) and Hgt (Height): every 0.2m/yd. Ang (Angle): every 0.1°
Finder	Magnification: 6x Effective objective diameter: 21mm Actual field of view: 6.0° Exit pupil: 3.5mm Eye relief: 18.2mm
Dimensions (LxHxW)	130x69x45mm
Weight	210g (excluding battery)
Power source	CR2 lithium battery x 1 (DC 3V) Auto power shutoff function equipped (after about 30 sec.)
Safety and EMC	Class 1M laser product (IEC60825-1:2001), Fcc: Part15 class B, CE:EMC directive, C-tick, VCCI class B, WEEE

The specifications of the product may not be achieved depending on the target object's shape, surface texture and nature, and/or weather conditions.

Note: The origin of the technique of this Laser Rangefinder with inclinometer is the Surveying Instruments incorporated measuring capability of both distance and angle which were developed by Nikon Corporation. Among such products, especially, the first highly advanced electronic model, the Total Station DTM-1, is the root (Sold in 1985).

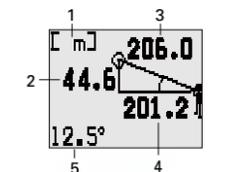
Internal display

- Actual (linear) Distance
- Horizontal Distance
- Height
- Angle
- Height between two points
- First Target Priority mode
- Distant Target Priority mode
- Battery condition
- Distance
- Unit of measure (m/yd.)
- Target mark (—|—)
- Laser irradiation (X)

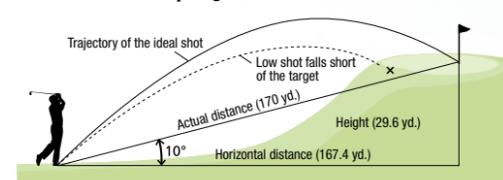


External display

- Measurement unit (m/yd.)
- Height
- Actual (linear) Distance
- Horizontal Distance
- Angle (°)



Measurement example (golf)



Ex. conditions | Horizontal distance + Height = Shot distance (Approx.)
* With medium iron | (167.4 yd.) + (29.6 yd.) = (197 yd.) * Upward incline

*The above calculation is an example of equation. The displayed measurement results can be utilised based on the user's consideration and include other usage than distance estimation.

Laser Rangefinders

Laser 1200S/Laser 800S

Nikon's top-of-the-line models

- 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 golfing for 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.) (Laser 1200S)
10-730m (11-800 yd.) (Laser 800S)
- LCD with backlight

Internal display (Laser 1200S/800S)

- Distance
- Unit of measure (m/yd.)
- Target mark (—|—)
- Laser irradiation (X)
- First Target Priority mode
- Battery condition



Laser 1200S



Laser 800S



Laser 550



Laser 350G

Model name	Laser 1200S	Laser 800S	Laser 550	Laser 350G
Measurement range	10-1,100m/11-1,200 yd.	10-730m/11-800 yd.	10-500m/11-550 yd.	
Distance display (Increment)	Every 0.5m/yd. (shorter than 1,000m/yd.) Every 1.0m/yd. (greater than 1,000m/yd.)	Every 0.5m/yd.	Every 0.5m/yd. (shorter than 100m/yd.) Every 1.0m/yd. (greater than 100m/yd.)	
Finder	Magnification: 7x Effective objective diameter: 25mm Actual field of view: 5.0° Exit pupil: 3.6mm Eye relief: 18.6mm	Magnification: 7x Effective objective diameter: 25mm Actual field of view: 5.0° Exit pupil: 3.6mm Eye relief: 18mm	Magnification: 6x Effective objective diameter: 21mm Actual field of view: 6.0° Exit pupil: 3.5mm Eye relief: 18.2mm	Magnification: 6x Effective objective diameter: 21mm Actual field of view: 6.0° Exit pupil: 3.5mm Eye relief: 18.2mm
Dimensions (LxHxW)	145x82x47mm	126x72x37mm	130x69x37mm	
Weight (excluding battery)	280g	210g	180g	
Power source	CR2 lithium battery x 1 (DC 3V), Auto power shutoff function equipped (after 8 sec.)			
Safety and EMC	Class 1M laser product (IEC60825-1:2001), Class 1 laser product (21CFR 1040.10 and 1040.11), Fcc: Part15 class B, CE:EMC directive, C-tick, VCCI class B, WEEE			

The specifications of these products may not be achieved depending on the target object's shape, surface texture and nature, and/or weather conditions.

Laser Rangefinders

Forestry 550

Ideal for basic forestry and land surveys — display in metres, yards or feet

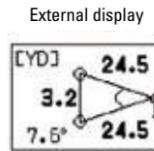
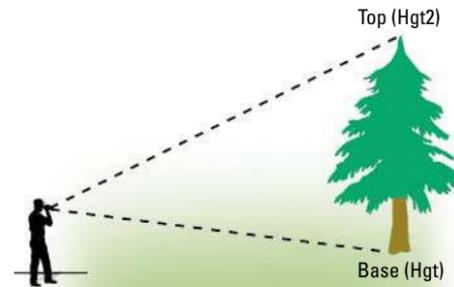
- In addition to actual distance measurement, height, vertical separation (difference in height between two targets), horizontal distance and angle can be easily measured.
- The results are displayed on both internal and external LCD panels. The external panel displays all results simultaneously.
- Two measurement modes (Target Priority Switch System) are available:
First Target Priority Mode displays the range to the nearest target taken from multiple results obtained with a single measurement.
Distant Target Priority Mode displays the range to the farthest target taken from multiple results obtained with a single measurement — especially useful for forestry and hunting.
- Display in feet as well as metres and yards is available with this model.
- Measurement range: 10-500 m/11-550 yd./33-999 ft.
(See page 30 for features common to Nikon Laser Rangefinders)



Forestry 550

Model name	Forestry 550
Measurement range	Distance:10-500m/11-550 yd./33-999 ft. (*999 ft.: 304.5m/333 yd.) Angle: ±89°
Distance display (Increment)	[Internal Display] Act (Actual Distance): every 0.5m/yd., 1.0 ft. (shorter than 100m/yd./ft.) every 1.0m/yd., 1.0 ft. (greater than 100m/yd./ft.) Hor (Horizontal Distance) and Hgt (Height): every 0.2m/yd., 0.5 ft. (shorter than 100m/yd./ft.) every 1.0m/yd., 1.0 ft. (greater than 100m/yd./ft.) Ang (Angle): every 0.1° (less than 10°) every 1.0° (more than 10°) *Downward angle from the horizontal line: with display “-” [External Display] Act (Actual Distance): every 0.5m/yd., 1.0 ft. Hor (Horizontal Distance) and Hgt (Height): every 0.2m/yd., 0.5 ft. Ang (Angle): every 0.1°
Finder	Magnification: 6x Effective objective diameter: 21mm Actual field of view: 6.0° Exit pupil: 3.5mm Eye relief: 18.2mm
Dimensions (LxHxW)	130x69x45mm
Weight	210g (excluding battery)
Power source	CR2 lithium battery x 1 (DC 3V) Auto power shutoff function equipped (after about 30 sec.)
Safety and EMC	Class 1M laser product (IEC60825-1:2001), Fcc: Part15 class B, CE:EMC directive, C-tick, VCCI class B, WEEE

Measurement example (2-point height measurement)



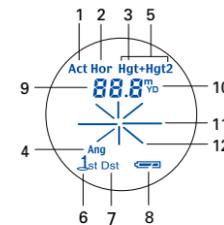
Hgt and Hgt2 are solid.

When the measurement is successful, you see the height from the base to the top displayed on the internal LCD with Hgt + Hgt2 (solid).
For more information, refer to the external LCD.
*Base and top can be switched.



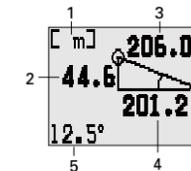
Internal display

1. Actual (linear) Distance
2. Horizontal Distance
3. Height
4. Angle
5. Height between two points
6. First Target Priority mode
7. Distant Target Priority mode
8. Battery condition
9. Distance
10. Unit of measure (m/yd.)
(No unit displayed for ft.)
11. Target mark (—|—)
12. Laser irradiation (X)



External display

1. Measurement unit (m/yd./ft.)
2. Height
3. Actual (linear) Distance
4. Horizontal Distance
5. Angle (°)



Exceptional Optics for Specialised Needs

Dedicated applications demand the expert attention that only Nikon delivers



The specifications of the product may not be achieved depending on the target object's shape, surface texture and nature, and/or weather conditions.

Note: The origin of the technique of this Laser Rangefinder with inclinometer is the Surveying Instruments Incorporated measuring capability of both distance and angle which were developed by Nikon Corporation. Among such products, especially, the first highly advanced electronic model, the Total Station DTM-1, is the root (Sold in 1985).

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

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

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

Model name	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 44.

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 name	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 name	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

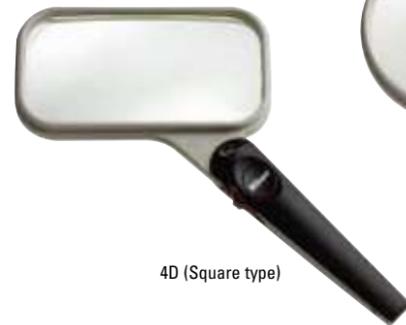
* Stand base size (W x D): 450 x 360mm

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 44.

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



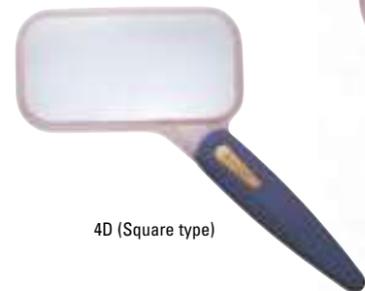
4D (Square type)



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)

Model name	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



Precision Loupe (for connoisseurs)

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

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

* When the lens is retracted to its original position.



Precision Loupe

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-U1 + COOLPIX Digital Camera



Fieldmicroscope Fieldmicroscope Mini

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



Fieldmicroscope



Fieldmicroscope Mini

Model name	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.

Model name	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

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

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 44.

High Grade



Action



Model name	10x25HG L DCF	Action 7x35CF	Action 8x40CF	Action 7x50CF	Action 10x50CF
Magnification (x)	10	7	8	7	10
Objective diameter (mm)	25	35	40	50	50
Angular field of view (Real/degree)	5.4	9.3	8.2	6.4	6.5
Angular field of view (Apparent/degree)	50.5	59.3	59.7	42.7	59.2
Field of view at 1,000m (m)	94	163	143	112	114
Exit pupil (mm)	2.5	5.0	5.0	7.1	5.0
Relative brightness	6.3	25.0	25.0	50.4	25.0
Eye relief (mm)	15.0	11.9	11.9	17.6	11.8
Close focusing distance (m)	3.2	5.0	5.0	8.0	7.0
Interpupillary distance adjustment (mm)	56-72	56-72	56-72	56-72	56-72
Weight (g)	300	715	760	980	970
Length (mm)	112	123	143	189	184
Width (mm)	109 (67*)	182	182	193	193
Type	Roof	Porro	Porro	Porro	Porro

*Folded



Model name	Action 12x50CF	Action 16x50CF	Action 7-15x35CF Zoom (set at 7x)	Action 10-22x50CF Zoom (set at 10x)	Action EX 7x35CF
Magnification (x)	12	16	7-15	10-22	7
Objective diameter (mm)	50	50	35	50	35
Angular field of view (Real/degree)	5.5	4.1	5.5	3.8	9.3
Angular field of view (Apparent/degree)	59.9	59.6	37.2	36.7	59.3
Field of view at 1,000m (m)	96	72	96	66	163
Exit pupil (mm)	4.2	3.1	5.0	5.0	5.0
Relative brightness	17.6	9.6	25.0	25.0	25.0
Eye relief (mm)	9.7	12.3	8.7	8.6	17.3
Close focusing distance (m)	7.0	9.0	11.0	15.0	5.0
Interpupillary distance adjustment (mm)	56-72	56-72	56-72	56-72	56-72
Weight (g)	960	990	805	1,025	800
Length (mm)	179	184	138	197	120
Width (mm)	193	193	182	193	184
Type	Porro	Porro	Porro	Porro	Porro

Binoculars

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 44.

Action



Hunting and Outdoor



Model name	Action EX 8x40CF	Action EX 7x50CF	Action EX 10x50CF	Action EX 12x50CF	Action EX 16x50CF	MONARCH X 8.5x45DCF	MONARCH X 10.5x45DCF	MONARCH 8x36DCF	MONARCH 10x36DCF	MONARCH 8x42DCF	MONARCH 10x42DCF	MONARCH 12x42DCF
Magnification (x)	8	7	10	12	16	8.5	10.5	8	10	8	10	12
Objective diameter (mm)	40	50	50	50	50	45	45	36	36	42	42	42
Angular field of view (Real/degree)	8.2	6.4	6.5	5.5	3.5	6.3	6.3	7.0	6.0	6.3	6.0	5.0
Angular field of view (Apparent/degree)	59.7	42.7	59.2	59.9	52.1	50.1	60.0	52.1	55.3	47.5	55.3	55.3
Field of view at 1,000m (m)	143	112	114	96	61	110	110	122	105	110	105	87
Exit pupil (mm)	5.0	7.1	5.0	4.2	3.1	5.3	4.3	4.5	3.6	5.3	4.2	3.5
Relative brightness	25.0	50.4	25.0	17.6	9.6	28.1	18.5	20.3	13.0	28.1	17.6	12.3
Eye relief (mm)	17.2	17.1	17.2	16.1	17.8	20.6	16.0	17.0	15.0	19.6	15.5	15.4
Close focusing distance (m)	5.0	7.0	7.0	7.0	7.0	3.0	3.0	2.5	2.5	2.5	2.5	2.5
Interpupillary distance adjustment (mm)	56-72	56-72	56-72	56-72	56-72	56-72	56-72	56-72	56-72	56-72	56-72	56-72
Weight (g)	855	1,000	1,020	1,045	1,040	720	730	570	575	615	615	625
Length (mm)	138	179	178	178	177	156	156	124	122	146	143	146
Width (mm)	187	196	196	196	196	139	139	129	129	129	129	129
Type	Porro	Porro	Porro	Porro	Porro	Roof	Roof	Roof	Roof	Roof	Roof	Roof

Elegant Compact



Compact

Model name	MONARCH 8.5x56DCF	MONARCH 10x56DCF	MONARCH 12x56DCF	SPORTER EX 8x42	SPORTER EX 10x50	10x50CF WP	6x15M CF	7x15M CF Black	5x15 HG Monocular	7x15 HG Monocular	SPRINT IV 8x21CF <Silver/Metallic black>	SPRINT IV 10x21CF <Silver/Metallic black>
Magnification (x)	8.5	10	12	8	10	10	6	7	5	7	8	10
Objective diameter (mm)	56	56	56	42	50	50	15	15	15	15	21	21
Angular field of view (Real/degree)	6.2	6.0	5.5	7.0	5.6	6.2	8.0	7.0	9.0	6.6	6.3	5.0
Angular field of view (Apparent/degree)	49.4	55.3	59.9	52.1	52.1	56.9	45.5	46.4	43.0	44.0	47.5	47.2
Field of view at 1,000m (m)	108	105	96	122	98	108	140	122	157	115	110	87
Exit pupil (mm)	6.6	5.6	4.7	5.3	5.0	5.0	2.5	2.1	3.0	2.1	2.6	2.1
Relative brightness	43.6	31.4	22.1	28.1	25.0	25.0	6.3	4.4	9.0	4.4	6.8	4.4
Eye relief (mm)	19.2	17.4	16.3	19.7	19.6	17.4	10.1	10.0	15.8	12.0	11.3	8.6
Close focusing distance (m)	10	10	10	5.0	5.0	17.0	2.0	2.0	0.6	0.8	3.0	3.0
Interpupillary distance adjustment (mm)	60-72	60-72	60-72	56-72	56-72	56-72	56-72	56-72	—	—	56-72	56-72
Weight (g)	1,140	1,155	1,180	670	825	1,065	130	135	75	75	240	230
Length (mm)	197	197	197	154	187	195	48	47	71	71	93	87
Width (mm)	144	144	144	131	139	207	108	108	30	30	117	117
Type	Roof	Roof	Roof	Roof	Roof	Porro	Porro	Porro	Roof	Roof	Porro	Porro

Binoculars

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 44.

Compact



Model name	Sportstar EX 8x25DCF <Silver/Charcoal grey>	Sportstar EX 10x25DCF <Silver/Charcoal grey>	EAGLEVIEW ZOOM 8-24x25CF (set at 8x) <Silver/Black>	8x25CF TRAVELITE V	9x25CF TRAVELITE V	10x25CF TRAVELITE V	12x25CF TRAVELITE V	8-24x25CF TRAVELITE V (set at 8x)	TRAVELITE EX 8x25CF	TRAVELITE EX 9x25CF	TRAVELITE EX 10x25CF	TRAVELITE EX 12x25CF
Magnification (x)	8	10	8-24	8	9	10	12	8-24	8	9	10	12
Objective diameter (mm)	25	25	25	25	25	25	25	25	25	25	25	25
Angular field of view (Real/degree)	8.2	6.5	4.6	5.6	5.6	5.0	4.2	4.6	6.3	5.6	5.0	4.2
Angular field of view (Apparent/degree)	59.7	59.2	35.6	42.7	47.5	47.2	47.5	35.6	47.5	47.5	47.2	47.5
Field of view at 1,000m (m)	143	114	80	98	98	87	73	80	110	98	87	73
Exit pupil (mm)	3.1	2.5	3.1	3.1	2.8	2.5	2.1	3.1	3.1	2.8	2.5	2.1
Relative brightness	9.6	6.3	9.6	9.6	7.8	6.3	4.4	9.6	9.6	7.8	6.3	4.4
Eye relief (mm)	10.0	10.0	13.0	14.0	12.2	11.1	11.1	13.0	15.5	15.8	15.9	15.9
Close focusing distance (m)	2.5	3.5	4.0	3.0	3.0	3.0	4.0	5.0	2.8	2.8	2.8	2.8
Interpupillary distance adjustment (mm)	56-72	56-72	56-72	56-72	56-72	56-72	56-72	56-72	56-72	56-72	56-72	56-72
Weight (g)	280	280	350	255	255	250	260	310	355	360	365	365
Length (mm)	103	103	119	115	113	110	110	127	100	101	102	103
Width (mm)	114 (67)*	114 (67)*	110	118	118	118	118	118	116	116	116	116
Type	Roof	Roof	Porro	Porro	Porro	Porro	Porro	Porro	Porro	Porro	Porro	Porro

*Folded

Marine



Model name	7x50CF WP	7x50CF WP Compass	7x50IF WP	7x50IF WP Compass	7x50IF HP WP Tropical	10x70IF HP WP	8x30E II	10x35E II	8x32SE CF	10x42SE CF	12x50SE CF	7x50IF SP WP
Magnification (x)	7	7	7	7	7	10	8	10	8	10	12	7
Objective diameter (mm)	50	50	50	50	50	70	30	35	32	42	50	50
Angular field of view (Real/degree)	7.2	7.2	7.5	7.0	7.3	5.1	8.8	7.0	7.5	6.0	5.0	7.3
Angular field of view (Apparent/degree)	47.5	47.5	49.3	46.4	48.1	48.0	63.2	62.9	55.3	55.3	55.3	48.1
Field of view at 1,000m (m)	126	126	131	122	128	89	154	122	131	105	87	128
Exit pupil (mm)	7.1	7.1	7.1	7.1	7.1	7.0	3.8	3.5	4.0	4.2	4.2	7.1
Relative brightness	50.4	50.4	50.4	50.4	50.4	49.0	14.4	12.3	16.0	17.6	17.6	50.4
Eye relief (mm)	22.7	22.7	18.0	18.0	15.0	15.0	13.8	13.8	17.4	17.4	17.4	16.2
Close focusing distance (m)	10.0	10.0	25.0	25.0	24.5	50.0	3.0	5.0	3.0	5.0	7.0	12.3
Interpupillary distance adjustment (mm)	56-72	56-72	56-72	56-72	56-72	56-72	56-72	56-72	53-73	53-73	53-73	56-72
Weight (g)	1,100	1,120	1,170	1,210	1,360	1,985	575	625	630	710	900	1,485
Length (mm)	193	193	181	181	217	304	101	126	116	149	182	217
Width (mm)	202	202	203	203	210	234	181	183	183	192	202	210
Type	Porro	Porro	Porro	Porro	Porro	Porro	Porro	Porro	Porro	Porro	Porro	Porro

The Standard for Advanced Nature Observation

Binoculars

The Standard for Advanced Nature Observation



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

- 8x42HG L DCF
- 10x42HG L DCF
- 8x32HG L DCF
- 10x32HG L DCF
- MONARCH series
- MONARCH X series (soft type only)
- SPORTER EX series (soft type only)



Soft (S) type

Hard (H) type

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



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:

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

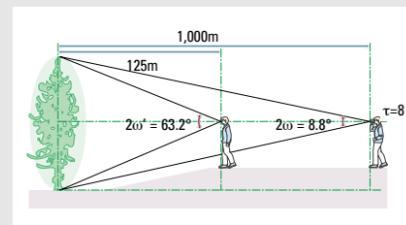
Apparent field of view: $2\omega'$
Real field of view: 2ω
Magnification: τ

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

$$2\omega' = 2 \times \tan^{-1} (\tau \times \tan \omega)$$

$$= 2 \times \tan^{-1} (8 \times \tan 4.4^\circ)$$

$$= 63.2^\circ$$



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



EDG Fieldscope 65



EDG Fieldscope 65-A



EDG Fieldscope 85



EDG Fieldscope 85-A

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 44.

Model name	Objective diameter (mm)	Length (mm)*	Width (mm)*	Weight (g)*
EDG Fieldscope 65	65	313	88	1,560
EDG Fieldscope 65 A	65	332	88	1,620
EDG Fieldscope 85	85	379	102	2,030
EDG Fieldscope 85 A	85	398	102	2,030

*Body only

Eyepieces for EDG Fieldscopes

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)
FEP-20W								
With EDG 65/65-A	16	4.1	60.0	72	4.1	16.8	20.1	240
With EDG 85/85-A	20	3.3	60.0	58	4.3	18.5	20.1	240
FEP-30W								
With EDG 65/65-A	24	3.0	64.3	52	2.7	7.3	25.4	390*
With EDG 85/85-A	30	2.4	64.3	42	2.8	7.8	25.4	390*
FEP-38W								
With EDG 65/65-A	30	2.4	64.3	42	2.2	4.8	17.9	230
With EDG 85/85-A	38	1.9	64.3	33	2.2	4.8	17.9	230
FEP-50W								
With EDG 65/65-A	40	1.8	64.3	31	1.6	2.6	17.8	230
With EDG 85/85-A	50	1.4	64.3	24	1.7	2.9	17.8	230
FEP-75W								
With EDG 65/65-A	60	1.2	64.3	21	1.1	1.2	17	230
With EDG 85/85-A	75	1.0	64.3	17	1.1	1.2	17	230
FEP-25 LER								
With EDG 65/65-A	20	3.0	55.3	52	3.3	10.9	32.3	320
With EDG 85/85-A	25	2.4	55.3	42	3.4	11.6	32.3	320
FEP-20-60								
With EDG 65/65-A	16-48	2.8 (at 16x)	42 (at 16x)	47 (at 16x)	4.1 (at 16x)	16.8 (at 16x)	18.4 (at 16x)	330
With EDG 85/85-A	20-60	2.2 (at 20x)	42 (at 20x)	38 (at 20x)	4.3 (at 20x)	18.5 (at 20x)	18.4 (at 20x)	330

* With detachable turn-and-slide eyepiece

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 EDIII	60	279	80	1,090
Fieldscope EDIII A	60	291	94	1,190
Fieldscope ED50	50	209	71	455
Fieldscope ED50 A	50	207	71	470
Spotting Scope RAIII 65 WP	65	293	105	900
Spotting Scope RAIII 65 A WP	65	304	105	920
Spotting Scope RAIII 82 WP	82	380	114	1,200
Spotting Scope RAIII 82 A WP	82	391	114	1,220
Spotter XL II	60	313	74	885

*Body only (except Spotter XL II)

Eyepieces for Fieldscopes

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)
20x/25x MC								
With III/III A/EDIII/EDIII A	20	3.0	55.3	52	3.0	9.0	15.2	75
With ED82/ED82 A	25	2.4	55.3	42	3.3	10.9	15.2	75
27x/40x/50x MC								
With ED50/ED50 A	27	1.7	42.0	30	1.9	3.6	9.4	35
With III/III A/EDIII/EDIII A	40	1.1	42.0	19	1.5	2.3	9.4	35
With ED82/ED82 A	50	0.9	42.0	16	1.6	2.6	9.4	35
24x/30x wide MC*2								
With III/III A/EDIII/EDIII A	24	3.0	64.3	52	2.5	6.3	15.1	145
With ED82/ED82 A	30	2.4	64.3	42	2.7	7.3	15.1	145
20x/30x/38x wide MC*1*2								
With ED50/ED50 A	20	3.6	64.3	63	2.5	6.3	17.9	160
With III/III A/EDIII/EDIII A	30	2.4	64.3	42	2.0	4.0	17.9	160
With ED82/ED82 A	38	1.9	64.3	33	2.2	4.8	17.9	160
27x/40x/50x wide MC*1*2								
With ED50/ED50 A	27	2.7	64.3	47	1.9	3.6	17.8	165
With III/III A/EDIII/EDIII A	40	1.8	64.3	31	1.5	2.3	17.8	165
With ED82/ED82 A	50	1.4	64.3	24	1.6	2.6	17.8	165
40x/60x/75x wide MC*1*2								
With ED50/ED50 A	40	1.8	64.3	31	1.3	1.7	17.0	175
With III/III A/EDIII/EDIII A	60	1.2	64.3	21	1.0	1.0	17.0	175
With ED82/ED82 A	75	1.0	64.3	17	1.1	1.2	17.0	175
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)	3.8 (at 13x)	14.4 (at 13x)	12.9 (at 13x)	100
With III/III A/EDIII/EDIII A	20-45	2.0 (at 20x)	38.5 (at 20x)	35 (at 20x)	3.0 (at 20x)	9.0 (at 20x)	12.9 (at 20x)	100
With ED82/ED82 A	25-56	1.6 (at 25x)	38.5 (at 25x)	28 (at 25x)	3.3 (at 25x)	10.9 (at 25x)	12.9 (at 25x)	100
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)	3.8 (at 13x)	14.4 (at 13x)	14.1 (at 13x)	150
With III/III A/EDIII/EDIII A	20-60	2.0 (at 20x)	38.5 (at 20x)	35 (at 20x)	3.0 (at 20x)	9.0 (at 20x)	14.1 (at 20x)	150
With ED82/ED82 A	25-75	1.6 (at 25x)	38.5 (at 25x)	28 (at 25x)	3.3 (at 25x)	10.9 (at 25x)	14.1 (at 25x)	150
16x/24x/30x Wide DS*1*2								
With ED50/ED50 A	16	4.5	64.3	79	3.1	9.6	18.7	170
With III/III A/EDIII/EDIII A	24	3.0	64.3	52	2.5	6.3	18.7	170
With ED82/ED82 A	30	2.4	64.3	42	2.5	7.3	18.7	170
27x/40x/50x Wide DS*1*2								
With ED50/ED50 A	27	2.7	64.3	47	1.9	3.6	17.8	180
With III/III A/EDIII/EDIII A	40	1.8	64.3	31	1.5	2.3	17.8	180
With ED82/ED82 A	50	1.4	64.3	24	1.6	2.6	17.8	180
40x/60x/75x Wide DS*1*2								
With ED50/ED50 A	40	1.8	64.3	31	1.3	1.7	17.0	190
With III/III A/EDIII/EDIII A	60	1.2	64.3	21	1.0	1.0	17.0	190
With ED82/ED82 A	75	1.0	64.3	17	1.1	1.2	17.0	190

*1 These eyepieces are not to be used for Fieldscope I series. *2 Turn-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 44.

Eyepieces for Spotting Scope RAIII WP Series

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 RAIII 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 RAIII 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 RAIII 65/65 A WP	20	2.0	38.5	35	3.3	10.9	31.8	170
With RAIII 82/82 A WP	25	1.6	38.5	28	3.3	10.9	31.8	170
20x/25x								
With RAIII 65/65 A WP	20	2.5	47.2	44	3.3	10.9	18.0	130
With RAIII 82/82 A WP	25	2.0	47.2	35	3.3	10.9	18.0	130
30x/38x Wide								
With RAIII 65/65 A WP	30	2.2	59.9	38	2.2	4.8	19.3	180
With RAIII 82/82 A WP	38	1.8	59.9	31	2.2	4.8	19.3	180
16-48x/20-60x Zoom DS								
With RAIII 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 RAIII 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 RAIII 65/65 A WP	20	2.5	47.2	44	3.3	10.9	18.0	140
With RAIII 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



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NIKON VISION CO., LTD.

Nikon Futaba Bldg., 3-25, Futaba 1-chome, Shinagawa-ku,
Tokyo 142-0043, Japan
Tel: +81-3-3788-7697 Fax: +81-3-3788-7698

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