

DISCOVER MORE

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\*Products: Hardware and its technical information (including software)

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**WARNING**

To ensure correct usage, read manuals carefully before using your equipment. Never look at the sun directly through optical equipment. It may cause damage to or loss of eyesight.



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En

# SPORT OPTICS

BINOCULARS, FIELDSCOPES, LASER RANGEFINDERS & SPECIALTY OPTICS

2023 - 2024





# WHY NIKON?



## **Exactng 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. 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, mountaineering, nature watching, travel, the theatre, or just weekend fun, there's a Nikon Sport Optics model designed to meet your needs. Our ongoing collaboration with other Nikon technologies adds even further to your viewing excitement and 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.





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EXPERIENCE MORE WITH  
NIKON SPORT OPTICS



Feature icons

- 

**Roof (Dach) Prism Type**  
Binoculars that employ a roof (Dach) prism to rectify the image. "Dach" means roof in German. The optical path at the objective side and eyepiece side is virtually straight, making it possible for the binoculars to be compact and slim.
- 

**Porro Prism Type**  
Binoculars that employ a Porro prism, which was invented by Ignazio Porro in Italy. All of its reflective surfaces are completely reflective, so it loses no light and realises a bright field of view.
- 

**IF (Individual Focusing)**  
Binoculars that have an IF (Individual Focusing) mechanism. Focus the right and left eyes separately by rotating the dioptre adjustment ring located on the eyepiece. Structurally, the design easily maintains airtightness, making it suitable for waterproof models.
- 

**CF (Central Focusing)**  
Binoculars that have a CF (Central Focusing) mechanism. Focus both left and right eyes at the same time by rotating a central focusing ring. Superior operability.
- 

**ED Lens**  
ED (Extra-low Dispersion) glass is employed to correct chromatic aberration, which causes colour fringing.
- 

**Aspherical Lens**  
Provides sharp images up to the periphery while reducing image distortion.
- 

**Full Multilayer Coating**  
Multilayer coating is applied to transmission surfaces of all lenses and prisms to enhance light transmittance. Provides a brighter and sharper field of view.
- 

**Multilayer Coating**  
Multilayer coating is applied for increased light transmittance.
- 


**Wide Field of View**  
Wide field-of-view binoculars provide an apparent field of view over 60°. \*Apparent field of view is calculated based on the ISO 14132-1:2002 standard.
- 


**Long Eye Relief**  
High-eyepoint binoculars with eye relief of 15mm or longer. Eyeglass wearers can also obtain the field of view without vignetting.
- 


**Rubber Coating**  
Body is coated with rubber. It fits securely in your hands for comfortable holding.
- 


**Waterproof**  
Waterproof structure is employed. Nitrogen gas-filled models are resistant to fog and mould.


Application icons


- 


**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 are recommended.
- 


**Outdoors, 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. For early morning and evening use, binoculars with a large objective diameter and Nikon's multicoated lenses are recommended.
- 


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

**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 also convenient, as they enable quick and easy changes in magnification to suit the viewing situation.
- 

**Travelling**  
Compact, lightweight models with mid-range 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.
- 

**Museum**  
For museums, choose compact, lightweight models with low magnification and a close focusing distance of less than 2m.
- 

**Marine sports, fishing**  
Waterproofing and durability are essential for these activities. Enhanced brightness and a wide field of view are desirable too.
- 

**Maritime operations**  
For professional workplace usage such as sailing or marine observation. Waterproof, large-diameter binoculars are recommended.



LIFE IN SHARP FOCUS



# BINOCULARS

Up-close and real

Nikon binoculars have established a benchmark for extraordinary value in Sport Optics. Building on Nikon's eminence as the global leader in precision optics, we provide binoculars for diverse applications, making it easy to select fine, brilliant optics that are ideal for your own particular needs.



# BINOCULAR BASICS

## Performance factors

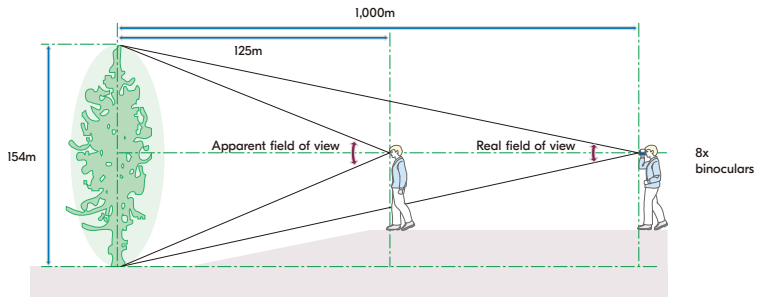
Nikon offers an extensive lineup of binoculars — including several of the world’s most popular series — for a diverse range of applications. Each model features various technical specifications that can help you in making the right selection. Magnification is usually considered most important, but field 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.



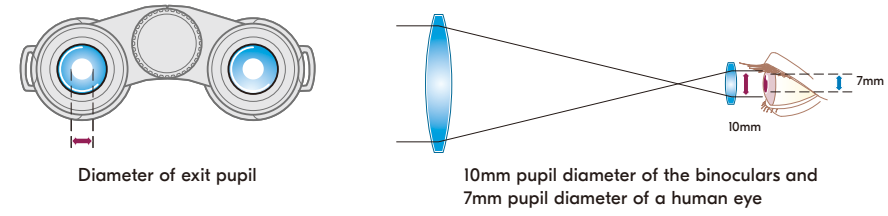
\* Apparent field of view is calculated based on the ISO 14132-1:2002 standard. For details, see p 55.

### 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.

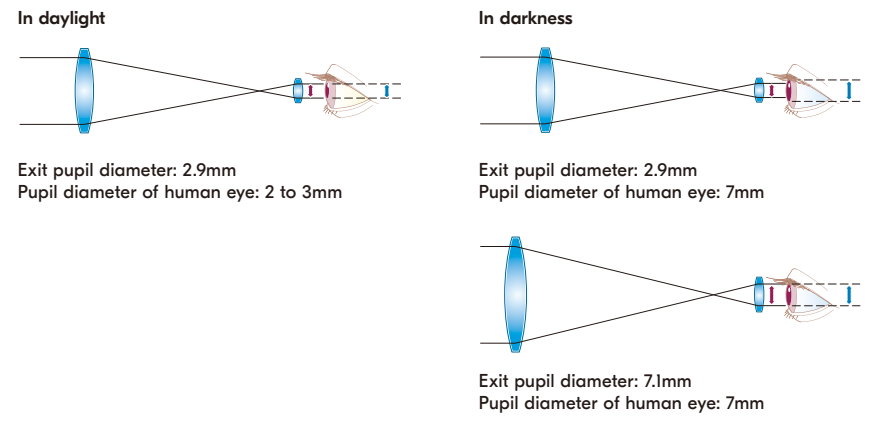
### Exit pupil

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

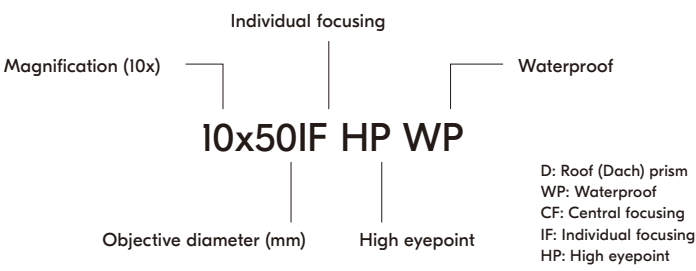
All Nikon binoculars are designated with a numerical formula, such as “10x25 5.4°”. The value “10x” indicates the magnification of the binoculars. If a person uses 10x binoculars to observe a wild bird from a distance of 100 metres, for example, it will appear to the observer as if he or she were viewing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





## Experience the extraordinary

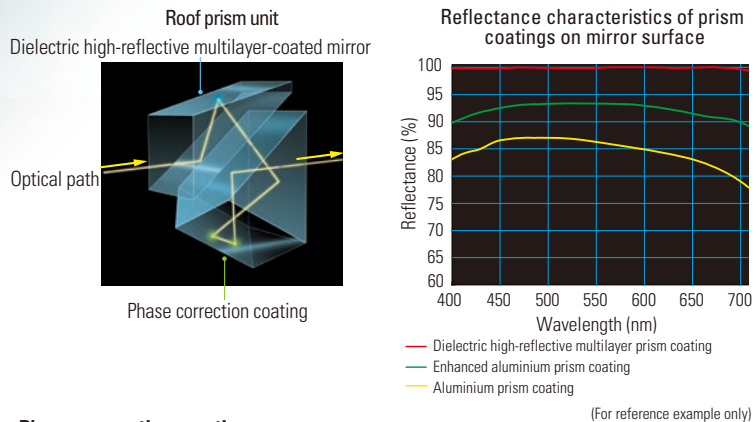
The EDG brand was born of Nikon's commitment to provide a premium lineup of the finest instruments in the field of sport optics. In combination with Nikon's many leading-edge technologies, including both optical and mechanical, these exceptional products are able to deliver a spectacular field of view, and performance that goes beyond the nature and outdoor enthusiast's wildest dreams.

**EDG** 7x42/8x42/10x42



EDG 10x42

- Nikon's legendary ED (Extra-low Dispersion) glass lenses**  
 Nikon's legendary ED (Extra-low Dispersion) glass lenses effectively compensate for chromatic aberrations to provide images of superior contrast and outstanding resolution.
- Field-flattener lens system**  
 Nikon's field-flattener lens system technology minimises curvature of field — aberrations that occur when focusing on the centre of the field of view causing the periphery to go out of focus and vice versa — and delivers sharper, clearer images all the way to the lens periphery.
- Dielectric high-reflective multilayer prism coating**  
 Dielectric high-reflective multilayer coating is applied to a roof prism unit that does not feature total internal reflection. This boosts light reflectivity of more than 99% (designed value) for the full visible range, giving you clearer whites and a sharper, brighter, more natural vision across the entire field of view.



- Phase correction coating**  
 Phase shift of light is caused by phase differences arising from total light reflection on a roof (Dach) surface. Phase-correction coating is applied to the surface to minimise loss of resolution, ensuring high-contrast images.
- Brighter images, even at twilight**  
 Advanced multilayer coating is applied to all lenses and prisms to increase light transmission and to reduce flare and ghosting for super-bright, razor-sharp images, even at dawn and dusk.
- Eco-glass optics, environmentally safe materials**  
 All lenses and prisms are free of lead and arsenic.

- Dual focus knob with dioptre adjustment**  
 Larger focus knob for easy operation. Pull out to adjust dioptre (left), push in to focus (right).



- Turn-and-slide rubber eyecups facilitate easy positioning of eyes at the correct eyepoint**  
 For non-eyeglass wearers, use the eyecups in the extended position. For eyeglass wearers, use them fully retracted. Eyecups can be adjusted to any of four click stops, offering fine adjustment that meets your needs.

- Long eye relief design for a clear field of view, even for eyeglass wearers**

- Horn-shaped detachable eyecups**  
 Ergonomically designed horn-shaped eyecups block peripheral light to give you a clearer field of view.



- Comfortable, ergonomically designed strap**  
 Designed for comfort, even during long days of use. The strap length is easily adjusted without having to remove it from your neck.



- Short bridge style for easy grip**

- Durable design**  
 Sturdy, lightweight die-cast magnesium alloy body.

- Waterproof (up to 5m/16.4 ft. for 10 minutes)**  
 Waterproof/fogproof construction features a nitrogen-filled body with O-ring seals.



EDG 8x42



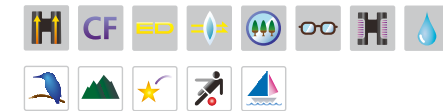
# MONARCH

## A royal invitation to the magnificence of nature

Decades of design experience and expertise have made Nikon a leading force in nature watching and enjoyment. Advanced technology, evidenced by an amazingly bright and sharp field of view, gives lovers of the outdoors the chance to observe nature in all its spectacular glory and treasure each vivid and captivating moment. This unique heritage has led to the widely acclaimed reliable performance of MONARCH binoculars.

## MONARCH HG

MONARCH HG 8x30/10x30/8x42/10x42



- Outstanding clarity with edge-to-edge sharpness and a wide field of view**
- Wide apparent field of view (60.3° for 8×30, 8×42 and 62.2° for 10×30, 10×42). While realising a wide field of view, the Field Flattener Lens System assures a sharp and clear view all the way to the lens periphery.
  - Extra-low dispersion (ED) glass corrects chromatic aberration that causes colour fringing and realises a contrast-rich and high-resolution image
  - High-quality multilayer coating is applied to all lenses and prisms while dielectric high-reflective multilayer coating is applied to the roof prisms, achieving up to 92% or higher light transmittance, which enables a bright view and natural colour fidelity
  - Phase-correction-coated roof prisms for high resolution and contrast
  - Scratch-resistant coating is applied on the objective lens and eyepiece surfaces
  - Long eye relief design ensures a clear field of view, even for eyeglass wearers
  - Lead- and arsenic-free glass is used for all lenses and prisms
  - Turn-and-slide rubber eyecups with multi-click facilitate easy positioning of eyes at the correct eyepoint
  - Dioptre adjustment ring locking system prevents unintentional rotation
  - Sturdy, lightweight magnesium alloy body
  - Superior waterproof/fogproof performance with a nitrogen-filled body that resists water pressure to a depth of up to 5m/16.4 ft. for 10 minutes and prevents fogging inside the optical system even in low-pressure environments up to altitudes of 5,000m/16,404 ft. equivalent
  - Soft-to-the-touch neck strap
  - Objective lens caps are integrated to prevent loss
  - Optional tripod adapter enables attachment to a tripod [TRA-3/Adaptor H (hard type)]

MONARCH HG 8x42

BINOCULARS

Nikon

\* For specifications, see pp 49-50.





# MONARCH M7

MONARCH M7 8x30/10x30/8x42/10x42



- Exquisite optical performance delivering a wide field of view and spectacular viewing**
- Sophisticated exterior design for comfortable holding
  - Extra-low dispersion (ED) glass for chromatic aberration compensation and brighter, clearer viewing
  - Wide apparent field of view (60.3° for 8x42, 62.2° for 10x42, 60.3° for 8x30, 60.7° for 10x30)
  - Dielectric high-reflective multilayer prism coating ensures superior transmittance uniformity across the visible range, resulting in brighter images and more natural colours
  - All lenses and prisms are multilayer-coated for brighter images
  - Oil- and water-repellent coating applied to the objective lens and eyepieces allows smudges like fingerprints to be easily wiped off
  - Phase-correction-coated roof prisms for high resolution
  - Long eye relief design ensures a clear field of view, even for eyeglass wearers
  - Dioptre adjustment ring locking system prevents unintentional rotation
  - 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
  - Rubber armouring for shock resistance and a firm, comfortable grip
  - Lightweight body uses fibreglass-reinforced polycarbonate resin
  - Soft-to-the-touch neck strap
  - Flip-down objective lens cap
  - Optional tripod adapter enables attachment to a tripod [TRA-3/Adaptor H (hard type)]



MONARCH M7 10x30



MONARCH M7 10x42

# MONARCH M5

MONARCH M5 8x42/10x42/12x42



- ED glass and dielectric high-reflective multilayer prism coating realise an image quality, ideal for outdoor activities**
- Sophisticated exterior design for comfortable holding
  - Extra-low dispersion (ED) glass for chromatic aberration compensation and brighter, clearer viewing
  - Dielectric high-reflective multilayer prism coating ensures superior transmittance uniformity across the visible range, resulting in brighter images and more natural colours
  - All lenses and prisms are multilayer-coated for brighter images
  - Phase-correction-coated roof prisms for high resolution
  - Long eye relief design ensures 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
  - Rubber armouring for shock resistance and a firm, comfortable grip
  - Lightweight body uses fibreglass-reinforced polycarbonate resin
  - Soft-to-the-touch neck strap
  - Flip-down objective lens cap
  - Optional tripod adapter enables attachment to a tripod [TRA-3/Adaptor H (hard type)]



MONARCH M5 12x42

# MONARCH 5

MONARCH 5 8x56/16x56/20x56



- Exceptional image quality realised with ED glass and dielectric high-reflective multilayer prism coating**
- Extra-low dispersion (ED) glass for chromatic aberration compensation and clearer viewing
  - Dielectric high-reflective multilayer prism coating ensures superior transmittance uniformity across the visible range resulting in brighter images and more natural colours
  - All lenses and prisms are multilayer-coated for bright images
  - Phase-correction-coated roof prisms for high resolution
  - Long eye relief design ensures a clear field of view, even for eyeglass wearers
  - 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 10 minutes) and fog-free with nitrogen gas
  - Turn-and-slide rubber eyecups with multi-click facilitate easy positioning of eyes at the correct eyepoint
  - Rubber armouring for shock resistance and a firm, comfortable grip
  - Lightweight body uses fibreglass-reinforced polycarbonate resin
  - Soft-to-the-touch neck strap
  - Flip-down objective lens cap
  - Tripod adaptor is a supplied accessory for 16x56 and 20x56 models



MONARCH 5 16x56

\* For specifications, see pp 50-51.



# PROSTAFF

## The world on your terms

Discovery is a way of life for you. You prefer to enter and explore new worlds with optical equipment sporting the latest breakthroughs in both value and performance. This approach enables you to better appreciate what you discover. Welcome to the wonderful world of PROSTAFF. Expect solid, honest-to-goodness performance you can rely on.

## PROSTAFF P7

**PROSTAFF P7** 8x30/10x30/8x42/10x42



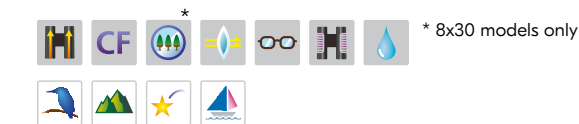
### High-quality performance, with a dioptre adjustment ring locking system

- Wide apparent field of view (62.6° for 8x30, 62.9° for 10x42)
- Dielectric high-reflective multilayer prism coating ensures superior transmittance uniformity across the visible range, resulting in brighter images and more natural colour fidelity
- Phase-correction-coated roof prisms for high resolution
- All lenses and prisms are multilayer-coated for brighter images
- Oil- and water-repellent coating applied to the objective lens and eyepieces allows smudges like fingerprints to be easily wiped off
- Long eye relief design ensures a clear field of view, even for eyeglass wearers
- Dioptre adjustment ring locking system prevents unintentional rotation
- Lead- and arsenic-free glass is used for all lenses and prisms
- Turn-and-slide rubber eyecups with multi-click facilitate easy positioning of eyes at the correct eyepoint
- Waterproof (up to 1m/3.3 ft. for 10 minutes) and fog-free with O-ring seals and nitrogen gas
- Rubber armouring for shock resistance and a firm, comfortable grip
- Lightweight body uses fibreglass-reinforced polycarbonate resin



## PROSTAFF P3

**PROSTAFF P3** 8x30/10x30/8x42/10x42



### Excellent practicality, perfect for entry users

- Wide apparent field of view (62.6° for 8x30, 62.9° for 10x42)
- High-reflectivity silver-alloy mirror coating applied on the mirror surfaces of the prisms for a bright and clear view
- Multilayer-coated lenses for bright images
- Long eye relief design ensures a clear field of view, even for eyeglass wearers
- Lead- and arsenic-free glass is used for all lenses and prisms
- Turn-and-slide rubber eyecups with multi-click facilitate easy positioning of eyes at the correct eyepoint
- Waterproof (up to 1m/3.3 ft. for 10 minutes) and fog-free with O-ring seals and nitrogen gas
- Rubber armouring for shock resistance and a firm, comfortable grip
- Lightweight body uses fibreglass-reinforced polycarbonate resin



\* For specifications, see pp 50-51.



# ACULON

ACULON T02 8x21/10x21



Colourful, lightweight and compact binoculars that bring “joy of watching”

- Compact and lightweight for portability — weighing a mere 195g
- Multilayer-coated lenses for a bright image
- Larger focusing ring for smooth operation
- Turn-and-slide rubber eyecups facilitate easy positioning of eyes at the correct eyepoint
- Single-hinged, Single-hinged, slim and stylish design
- Available in four body colours: 8x21 in red, blue and white/10x21 in black



ACULON T02 8x21 <Red>



ACULON T02 8x21 <White>



ACULON T02 8x21 <Blue>



ACULON T02 10x21 <Black>

## Taking it all in, in your own unique style

For you, just as important as observing the world is looking at it in your own way. That means through binoculars designed for the way you live. You know there is a wonderful world out there full of colours and you want to witness it in the style you are accustomed to. ACULON binoculars are for you — with a sporty design in a variety of styles and colours that suit your mood and the occasion. If you prefer sport optics that complement your personality, ACULON is the way to go.

\* For specifications, see p 51.





ACULON A21I 7x35/8x42/10x42/7x50/10x50/12x50/16x50/8-18x42/10-22x50



- Durability and a large objective lens for the great outdoors**
- Aspherical eyepiece lens eliminates image distortion even at the lens periphery (except zoom models)
  - Multilayer-coated lenses for bright images
  - Turn-and-slide rubber eyecups facilitate easy positioning of eyes at the correct eyepoint (except zoom models)
  - Rubber armour for shock-resistance and a firm, comfortable grip
  - Smooth zooming with finger-tip zoom control (zoom models only)
  - Can be fixed to a tripod using optional tripod adaptor (see p 51) (Tripod adaptor TRA-2 is a supplied accessory for the ACULON A21I 16x50 and 10-22x50)

ACULON A21I 8x42

ACULON A30 8x25/10x25



- Strong performance in a compact body for added user confidence**
- Compact and lightweight
  - Multilayer-coated lenses for bright images
  - Long eye relief design ensures a clear field of view, even for eyeglass wearers (8x25)
  - Firm, comfortable, rubber-coated grip
  - Fold-up design; easy to carry around
  - Eco-glass optics that are free of lead and arsenic are used for all lenses and prisms
  - Available in two body colours: black and silver

ACULON A30 8x25 <Black>

ACULON A30 10x25 <Silver>

ACULON A21I 10-22x50

# 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.



4x10DCF <White>

4x10DCF <Champagne>

4x10DCF



- Effortless performance in a sleek design**
- Ultra-compact and lightweight (65g only)
  - Close focusing distance: 1.2m
  - All lenses and prisms are multilayer-coated for bright images
  - Easy operation (Dioptre adjustment not required)
  - Stylish design
  - Available in four colours: black, silver, red and white



4x10DCF <Black>



4x10DCF <Red>

6x15M CF/7x15M CF Black



- Timeless performance and design**
- Stylish metal body
  - Ultra-compact and lightweight
  - Close focusing distance: 2m
  - Multilayer-coated lenses 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 for bright images
  - Long eye relief design ensures a clear field of view, even for eyeglass wearers (5x)
  - Close focusing distance: 0.6m (5x), 0.8m (7x)



7x15 HG Monocular

\* For specifications, see pp 51-53.



# Compact / High Grade

## 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 <Black>

### Sportstar EX 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>

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



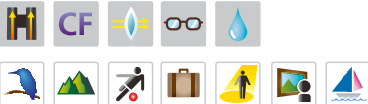
#### Lightweight compact for more versatile use

- Waterproof (up to 2m/6.6 ft. for 5 minutes) and fog-free with nitrogen gas
- Aspherical eyepiece lens eliminates image distortion
- Long eye relief design ensures a clear field of view, even for eyeglass wearers
- Close focusing distance: 2.8m
- Multilayer-coated lenses for bright 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

### 8x20HG L DCF/10x25HG L DCF



#### Exceptional, compact performance

- Sturdy, lightweight die-cast magnesium alloy body
- Foldable design is convenient for carrying
- Close focusing distance: 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



10x25HG L DCF

### Sportstar Zoom 8-24x25



#### Sleek and compact binoculars with 3x zoom capability in three colours

- Compact and lightweight
- Unique zoom lever designed for extra-smooth 8-24x zooming
- Turn-and-slide rubber eyecups facilitate easy positioning of eyes at the correct eyepoint
- All lenses and prisms are multilayer-coated for brighter images
- Designed for comfortable fit and easy handling
- Available in three body colours (white/dark blue/black)



Sportstar Zoom 8-24x25 <White>



Sportstar Zoom 8-24x25 <Dark Blue>



Sportstar Zoom 8-24x25 <Black>

\* For specifications, see pp 52-53.



# 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 GLOBAL COMPASS



#### Easy focus on water or land

- Quick, easy-to-use 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 global compass with illuminator and scale (7x50CF WP GLOBAL COMPASS)
- Long eye relief design ensures a clear field of view, even for eyeglass wearers
- Multilayer-coated lenses for bright images
- 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 51)



Floating strap for 7x50CF WP/7x50CF WP GLOBAL COMPASS

### 7x50IF WP



#### 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 bright images
- Rubber armouring for shock resistance and a firm, comfortable grip
- Long eye relief design ensures a clear field of view, even for eyeglass wearers
- Can be fixed to a tripod using optional tripod adaptor (see p 51)

#### Optional accessories



##### Polarising filter (option)

This filters out light reflections from water or glass.

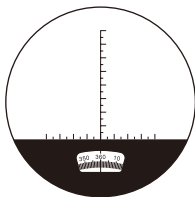


##### Horn-shaped rubber eyecup (option)

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



#### Compass and distance scale (for 7x50CF WP GLOBAL COMPASS)

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



7x50CF WP GLOBAL COMPASS



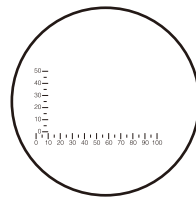
7x50IF WP

### 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)
- Long eye relief design ensures a clear field of view, even for eyeglass wearers
- Large objective diameter for bright image
- Can be fixed to a tripod using optional tripod adaptor (see p 51)
- 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



#### 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
- Long eye relief design ensures a clear field of view, even for eyeglass wearers
- Can be fixed to a tripod using optional tripod adaptor (see p 51)
- Polarising filter and horn-shaped rubber eyecup are available (options)



10x70IF HP WP

### 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 bright images
- Long eye relief design ensures a clear field of view, even for eyeglass wearers
- Rubber armouring for shock resistance and a firm, comfortable grip
- Wide strap
- Can be fixed to a tripod using optional tripod adaptor (see p 51)



10x50CF WP

# Standard

## BINOCULARS

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



\*7x50CF, 12x50CF models only

#### A comfortable viewing in the most challenging conditions

- Waterproof (up to 1m/3.3 ft. for 5 minutes) and fog-free with nitrogen gas
- Long eye relief design ensures 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 p 51)



Action EX 8x40CF

\* For specifications, see pp 52-54.



# 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 nature observation, providing optical clarity and sharpness. And in models designed for stargazing, you'll enjoy sharp, edge-to-edge resolution that exceeds your expectations.

### 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 for bright images
- Can be fixed to a tripod using optional tripod adaptor (see p 51)



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 bright images
- 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
- Long eye relief design ensures a clear field of view, even for eyeglass wearers
- Can be fixed to a tripod using optional tripod adaptor (see p 51)
- Polarising filter and horn-shaped rubber eyecup are available (options, see p 22)

7x50IF SP WP



### 18x70IF WP WF



#### Extra magnification for seafarers, stargazing

- Wide 64.3° apparent angular field of view
- All lenses are multilayer-coated for bright images
- Waterproof (up to 2m/6.6 ft. for 5 minutes) and fog-free with O-ring seals and nitrogen gas
- Long eye relief design ensures a clear field of view, even for eyeglass wearers
- Can be fixed to a tripod using optional tripod adaptor (see p 51)
- Polarising filter and horn-shaped rubber eyecup are available (options, see p 22)

18x70IF WP WF



# WX

## Journey deep into the starry sky

Discover the jewel in the crown of a hundred years of optical excellence — Nikon WX state-of-the art astronomy binoculars, boasting a super-wide field of view. Designed for discerning stargazers, the WX series' phenomenal performance takes you far into the night sky, revealing fresh details and colour nuances. See the stars come to life through exceptional optical design and craftsmanship.

### WX 7x50 IF/10x50 IF



- Unprecedented optical performance with stunning sharpness across a super-wide field of view, with no sense of frame to limit your vision
- The Field Flatteners Lens System compensates for curvature of field, ensuring crystal clarity of vision from centre to periphery
- Three ED (Extra-low Dispersion) glass elements per tube give a high-resolution and contrast-rich image
- ED glass also compensates for chromatic aberration, allowing a view of delicate colour nuances all the way to the edge of your field of view
- High-quality multilayer coating on all lenses and prisms for uniformly high light transmittance across the entire visible range
- Abbe-Koenig prisms ensure the exceptional level of brightness needed to complement the outstanding optical achievement of a super-wide field of view
- Phase correction coating on the Dach sections of the prisms compensates for phase shifts of light when reflecting inside prisms
- Super-wide field of view plus long eye relief, ensuring a superb viewing experience for everyone
- Apparent field of view 66.6° and eye relief 17.7 mm for WX 7x 50 IF
- Apparent field of view 76.4° and eye relief 15.3 mm for WX 10x50 IF
- Designed for comfortable viewing over long periods of observation, with a sturdy yet lightweight magnesium alloy body
- Turn-and-slide rubber eyecups, with six clicks for easy positioning
- Can be fixed to a tripod using TRA-5 tripod adaptor (supplied accessory, see p 51)



WX 10x50 IF



WX 750 IF

\* For specifications, see p 54.





SPOTTING EVERY DETAIL

# FIELDSCOPES

A whole wide world of discovery

Nikon offers a broad selection of the finest Fieldscopes and interchangeable eyepieces, all delivering peerless magnification through brilliant optics while featuring rugged construction.



# MONARCH



## MONARCH Fieldscope 82ED-S/82ED-A

- Advanced Apochromat Optical System with ED (extra-low dispersion) glass minimises chromatic aberration to the furthest limit of the visible light range, realising a contrast-rich, clearer field of view
- Field Flatteners Lens System provides consistent sharpness across the entire field of view, all the way to the periphery
- Multilayer coating is applied to all lens and prism surfaces for natural and bright images
- Bright and clear view is achieved with a total reflection prism.
- Straight models use a Porro prism, while angled-type models employ Nikon's original prism.
- Optimised Focusing System provides different focus speeds that allow you to operate at an optimised speed; fine action for focusing on distant subjects and coarser action for nearby subjects
- Three eyepieces exclusively designed for MONARCH Fieldscopes. All eyepieces feature a Type 1 Bayonet Mount with lock for easy attachment and detachment.
- Aluminium alloy body employed for high durability
- Waterproof and fog-free with nitrogen gas\*
- Built-in sliding hood blocks harmful light to the optical system and protects the objective lens
- Objective lens with thread for filter attachment [82mm-diameter models: 86mm (P=1.0), 60mm-diameter models: 67mm (P=0.75)]
- Knurling pattern on the focusing ring for excellent operability

\* The product will suffer no damage to the optical system if submerged or dropped in water to a maximum depth of 1 metre for up to 10 minutes (NOT designed for underwater usage)



MONARCH Fieldscope 82ED-S



MONARCH Fieldscope 82ED-A

## FIELDSCOPES

### Eyepieces MEP series for MONARCH Fieldscopes

#### MEP-38W

**Optimum image quality with an outstandingly wide field of view**

- Effectively corrects curvature of field and astigmatism for uniformly high resolution all the way to the periphery
- Apparent field of view is exceptionally wide at 66.4°
- Long eye relief gives a clear field of view even when wearing glasses
- Magnification is 38x when attached to MONARCH Fieldscope 82 series



MEP-38W  
(30x/38x)

#### MEP-20-60

**Bright optics with crisp clarity and a versatile 3x zoom**

- Flexible 3x zoom
- Effectively-corrected chromatic aberration ensures high resolution and sharpness all the way to the periphery, throughout the entire zoom range
- Turn-and-slide rubber eyecups offer easy positioning
- Long eye relief gives clear and comfortable viewing even with glasses
- Magnification is 20-60x when attached to MONARCH Fieldscope 82 series



MEP-20-60  
(16-48x/20-60x)

#### MEP-30-60W

**Wide field of view with superior optical performance and 2x zoom**

- Wide field of view
- Versatile 2x zoom
- Designed expressly for MONARCH Fieldscopes
- Advanced optical design optimally corrects image distortion across full zoom range
- Ultra-high optical resolving power ensures a sharp and clear view
- Long eye relief guarantees clear viewing even for eyeglass wearers
- Magnification is 30-60x when attached to MONARCH Fieldscope 82 series



MEP-30-60W  
(24-48x/30-60x)

\* For specifications, see p 56.



# PROSTAFF

**PROSTAFF  Fieldscope 82/82-A/60/60-A**

## Brighter viewing in a sleek design

- Compact, lightweight and smooth ergonomic design
- Large objective lens for a brighter field of view
- All lenses and prisms are multilayer-coated for bright images
- Chromatic aberration at the peripheries of the viewfield is minimised
- Waterproof (up to 1m/3.3 ft. for 10 minutes) and fog-free with nitrogen gas (Eyepieces are water-resistant when attached to the Fieldscope body)
- Bayonet-type eyepiece mount with locking system enables quicker, more secure eyepiece connections
- Three eyepieces exclusively for PROSTAFF 5 Fieldscopes are optionally available
- Built-in sliding hood



## Eyepieces for PROSTAFF 5 Fieldscopes

- Fully multilayer-coated
- Long eye relief design for viewing comfort with eyeglasses
- Usable for both observation and digiscoping
- Bayonet mount with lock for easy attachment and release
- Water-resistant when attached to Fieldscope body



PROSTAFF 5 Fieldscope 82



PROSTAFF 5 Fieldscope 82-A



PROSTAFF 5 Fieldscope 60

PROSTAFF 5 Fieldscope 60-A

# PROSTAFF

**PROSTAFF  Fieldscope**

## Compact design and reliable performance

- Compact, lightweight and sleek design
- All lenses and prisms are multilayer-coated for bright images
- 16-48x zoom eyepiece integrated
- Long eye relief (19mm at 16x)
- Rubber armouring
- Waterproof (up to 1m/3.3 ft. for 10 minutes) and fog-free with nitrogen gas
- Comes with a compact tripod and a carrying case



PROSTAFF 3 Fieldscope



PROSTAFF 3 Fieldscope with supplied tripod and carrying case

## FIELDSCOPES

# ED50/ED50 A

**Fieldscope ED50/ED50 A**

## Nikon's smallest high-end scope features brilliant optics

- 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 for bright images
- 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 MC eyepieces and 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)

## Eyepieces for Fieldscopes



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





# LASER RANGEFINDERS

The measure of excellence

Acclaimed throughout the world for superior optical technologies and leading-edge design, Nikon takes pride in delivering innovative products of the very highest quality. Nikon's Laser Rangefinder lineup features a variety of models to choose from, each instrument perfectly suited to its particular purpose.



GOING THE DISTANCE





# COOLSHOT PRO II STABILIZED

Dual LOCKED ON ECHO Technology provides clear visual and aural confirmation of measurement

- Measurement range: 7.5-1,090m/8-1,200 yd.
- STABILIZED function is employed for facilitating measurement to a distant flagstick while reducing the vibration caused by hand movement.
- The effect of Vibration Reduction: Vibrations of the image in the viewfinder caused by hand movement (sinusoidal waves) are reduced to 1/5 or less\*1.
- Red internal OLED display enables easier viewing in any situation. Automatic brightness adjustment function finetunes the display brightness according to the surrounding ambient light level.
- Dual LOCKED ON ECHO Technology\*2: LOCKED ON sign is lit in green with electronic sound to inform you that the distance to the flagstick has been measured.
- When measuring overlapping subjects, the distance to the closest subject is displayed with a green LOCKED ON sign in the viewfinder and simultaneous electronic sound. For example, on a golf course, clear visual and aural confirmation informs you that the distance to the flagstick has been measured even with trees in the background. The electronic sound notification can be set to off.
- Continuous measurement: When displayed figures shift to a closer subject, the LOCKED ON sign appears with electronic sound.
- Quick and stable measurement response regardless of distance — HYPER READ
- Displays the measurement result in approx. 0.3 seconds.
- Golf mode displays the slope adjusted distance (Horizontal distance ± Height) which is a guide to how far you should hit the ball and useful when golfing on an uphill/downhill course — ID (incline/decline) Technology
- Four measurement display modes are employed and the modes can be easily switched.
- Golf mode (Slope adjusted distance and actual distance mode)
- Actual distance mode
- Actual distance and height mode
- Horizontal distance and height mode
- Actual Distance Indicator is employed to indicate that the Incline/Decline measurement function (ID Technology) is not being utilised.
- When using actual distance mode, the indicator blinks in green while power is on. Non-use of the Incline/Decline measurement function (ID Technology) can be confirmed by observers easily.
- First Target Priority mode is employed. When measuring overlapping subjects, the distance of the closest subject is displayed — useful when golfing for measuring the distance to a flagstick on a green with woods in the background.
- Single or continuous measurement (up to 8 seconds)
- High-quality 6x monocular with multilayer coating for bright, clear images
- Large ocular for easy viewing (18mm)
- Wide field of view (7.5 degrees)
- Long eye relief design affords eyeglass wearers easy viewing
- Dioptre adjustment function
- Waterproof and fogproof
- Wide temperature tolerance: -10°C to +50°C/14°F to 122°F

\*1 Based on Nikon's measurement standards.

\*2 Single measurement: When measuring overlapping subjects and the distance to the closest subject is displayed, the LOCKED ON sign appears with electronic sound.




Conceptual image

**STABILIZED Technology** that reduces vibration caused by hand movement by approx. 80%. Vibrations of the image in the viewfinder caused by hand movement are reduced, and at that same time, the irradiated laser is also aligned. You can acquire a small subject such as a flagstick faster, and direct the laser onto the target more easily. This is achieved by Nikon's original technologies that are a fusion of vibration reduction and high-performance measurement function.

\*The effect of STABILIZED: Vibrations of the image in the viewfinder caused by hand movement (sinusoidal waves) are reduced to 1/5 or less (Based on Nikon's measurement standards).



**LOCKED ON TECHNOLOGY: Clear indication that the distance to the flagstick has been measured**

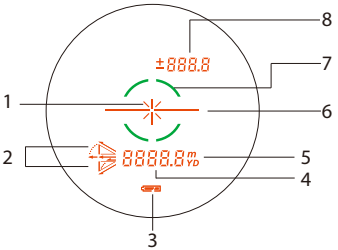
Picture the scene of an approach shot to a green with trees in the background, where you are not sure whether the measured distance is to the flagstick or to the trees behind it. The LOCKED ON Technology displays the distance to the closest subject, the flagstick. At the same time, the LOCKED ON sign (  ) in the viewfinder is lit to inform you. It is clearly visible that the distance to the flagstick has been measured even with trees in the background.



COOLSHOT PRO STABILIZED



**Internal display**

1. Laser irradiation mark (  )
2. Measurement display mode indicators
3. Battery condition
4. Distance
5. Unit of measure (m/yd.)
6. Target mark (  )
7. LOCKED ON sign — First Target Priority detection sign
8. Height (actual distance at golf mode setting)



**Dual LOCKED ON ECHO with a clear green sign and simultaneous electronic sound**



\*Single measurement: When measuring overlapping subjects and the distance to the closest subject is displayed, the LOCKED ON sign (  ) appears with an electronic sound. Continuous measurement: When displayed figures shift to a closer subject, the LOCKED ON sign (  ) appears with an electronic sound.



The LOCKED ON sign lights in green (  ) with a simultaneous electronic sound.

\* For specifications, see p 58.







# COOLSHOT LITE STABILIZED

## Simple and easy operability for everyone, with the STABILIZED function

- Measurement range: 7.5-1,090m/8-1,200 yd.
- STABILIZED function is employed for facilitating measurement to a distant flagstick while reducing the vibration caused by hand movement.
- The effect of Vibration Reduction: Vibrations of the image in the viewfinder caused by hand movement (sinusoidal waves) are reduced to 1/5 or less\*<sup>1</sup>.
- LOCKED ON Technology\*<sup>2</sup>: LOCKED ON sign informs you of the distance to the closest subject.
- When measuring overlapping subjects, the distance to the closest subject is displayed with a LOCKED ON sign in the viewfinder. For example, on a golf course, it is clearly visible that the distance to the flagstick has been measured even with trees in the background.
- Continuous measurement: When displayed figures shift to a closer subject, the LOCKED ON sign appears.
- Quick and stable measurement response regardless of distance — HYPER READ
- Displays the measurement result in approx. 0.3 seconds
- Golf mode displays the slope adjusted distance (Horizontal distance ± Height) which is a guide to how far you should hit the ball and useful when golfing on an uphill/downhill course — ID (incline/decline) Technology
- Two measurement display modes: Actual distance mode and Golf mode (slope adjusted distance and actual distance mode) are employed. Switching between the two modes can be achieved easily with a single press of the button. Actual distance mode can be used for official golf competitions, and Golf mode displays a guide distance of how far to hit the ball.
- Actual Distance Indicator is employed to indicate that the Incline/Decline measurement function (ID Technology) is not being utilised.
- When using actual distance mode, the indicator blinks in

- green while power is on. Non-use of the Incline/Decline measurement function (ID Technology) can be confirmed by observers easily.
- First Target Priority mode is employed. When measuring overlapping subjects, the distance of the closest subject is displayed — useful when golfing for measuring the distance to a flagstick on a green with woods in the background.
- Single or continuous measurement (up to 8 seconds)
- High-quality 6x monocular with multilayer coating for bright, clear images
- Large ocular for easy viewing (18mm)
- Wide field of view (7.5 degrees)
- Long eye relief design affords eyeglass wearers easy viewing
- Dioptre adjustment function
- Rainproof — JIS/IEC protection class 4 (IPX4) equivalent (under Nikon's testing conditions)
- Wide temperature tolerance: -10°C to +50°C/14°F to 122°F

\*1 Based on Nikon's measurement standards.

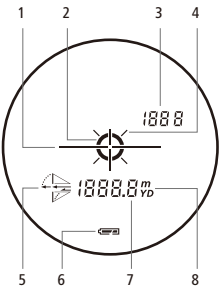
\*2 Single measurement: When measuring overlapping subjects and the distance to the closest subject is displayed, the LOCKED ON sign appears with electronic sound.



The circle sign (⊙) is lit.

### Internal display

- 1 Target mark (—+—)
- 2 LOCKED ON sign  
— First Target Priority detection sign (⊙)
- 3 Actual distance at Golf mode setting
- 4 Laser irradiation mark (∴)
- 5 Measurement display mode
- 6 Battery condition
- 7 Distance
- 8 Unit of measure (m/yd.)



Single or continuous measurement (up to 8 seconds)

- Quick and stable measurement response regardless of distance — HYPER READ
- Displays the measurement results in approx. 0.3 seconds



ID Technology displays the slope adjusted distance (Horizontal distance ± Height) which is a guide to how far you should hit the ball and useful when golfing on an uphill/downhill course

Actual Distance Indicator blinks to indicate that the Incline/Decline measurement function (ID Technology) is not in use

! Make sure to check the local rules in advance when using a COOLSHOT in an official competition.

Long eye relief design affords eyeglass wearers easy viewing

Rainproof

\* For specifications, see p 58.



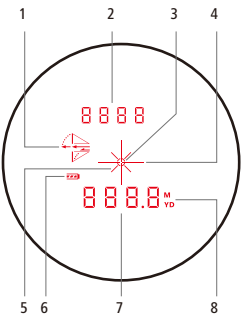
# COOLSHOT 50 i

Many useful functions required by golfers are incorporated in a sporty body

- Measurement range: 5-1,090m/6-1,200 yd.
- Red internal OLED display enables easier viewing in any situation.
- Dual LOCKED ON QUAKE Technology\*: LOCKED ON sign is lit in red with a brief vibration to inform you that the distance to the flagstick has been measured. When measuring overlapping subjects, the distance to the closest subject is displayed with a red LOCKED ON sign in the viewfinder and a simultaneous brief vibration. For example, on a golf course, clear visual and tactile confirmation informs you that the distance to the flagstick has been measured even with trees in the background.
- Magnet built into the body enables magnetic attachment to a golf cart, golf club, etc., for convenient portability
- Golf mode displays the slope adjusted distance (Horizontal distance ± Height) which is a guide to how far you should hit the ball and useful when golfing on an uphill/downhill course — ID (incline/decline) Technology
- Two measurement display modes: Actual distance mode and Golf mode (slope adjusted distance and actual distance mode) are employed. Switching between the two modes can be achieved easily with a single press of the button. Actual distance mode can be used for official golf competitions, and Golf mode displays a guide distance of how far to hit the ball.
- Actual Distance Indicator is employed to indicate that the Incline/Decline measurement function (ID Technology) is not being utilised. When using actual distance mode, the indicator blinks in green while power is on. Non-use of the Incline/Decline measurement function (ID Technology) can be confirmed by observers easily.
- First Target Priority mode is employed. When measuring overlapping subjects, the distance of the closest subject is displayed — useful when golfing for measuring the distance to a flagstick on a green with woods in the background.
- Single or continuous measurement (up to 8 seconds)
- High-quality 6x monocular with multilayer coating for bright, clear images
- Long eye relief design affords eyeglass wearers easy viewing
- Dioptre adjustment function
- Rainproof — JIS/IEC protection class 4 (IPX4) equivalent (under Nikon's testing conditions)
- Wide temperature tolerance: -10°C to +50°C/14°F to 122°F

\*Single measurement: When measuring overlapping subjects and the distance to the closest subject is displayed, the LOCKED ON sign appears and the body vibrates briefly. Continuous measurement: When displayed figures shift to a closer subject, the LOCKED ON sign appears and the body vibrates briefly.

- Internal display**
- 1 Measurement display mode
  - 2 Actual distance at Golf mode setting
  - 3 LOCKED ON sign  
— First Target Priority detection sign (  $\diamond$  )
  - 4 Target mark ( + )
  - 5 Laser irradiation mark (  $\times$  )
  - 6 Battery condition
  - 7 Distance
  - 8 Unit of measure (m/yd.)



COOLSHOT 50i

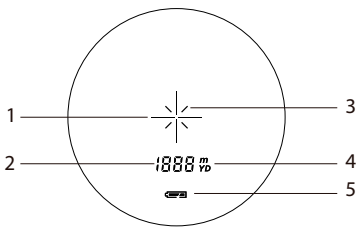
# COOLSHOT 20 GII

Small, lightweight, portable model with First Target Priority algorithm

- Compact, lightweight (approx. 130g) body
- Measurement range: 5-730m/6-800yd.\*
- First Target Priority algorithm for displaying the distance to the closest subject when measuring overlapping subjects
- Single or continuous measurement (up to 8 seconds). If single measurement fails, it automatically extends the measurement until succeeding for up to 4 seconds. Keeping the power button depressed enables continuous measurement for up to approx. 8 seconds.
- High-quality 6x monocular with multilayer coating for bright, clear images
- Long eye relief design affords eyeglass wearers easy viewing
- Dioptre adjustment function
- Rainproof — JIS/IEC protection class 4 (IPX4) equivalent
- Wide temperature tolerance: -10°C to +50°C/14°F to 122°F

\* Under Nikon's measurement conditions and reference values.

- Internal display**
1. Target mark ( —|— )
  2. Distance
  3. Laser irradiation mark (  $\times$  )
  4. Unit of measure (m/yd.)
  5. Battery condition



COOLSHOT 20 GII

\* For specifications, see pp 58-59.

# LASER 50 and LASER 30

**Laser 50:** Measurement range: 9.1-1,820m/10-2,000yd.

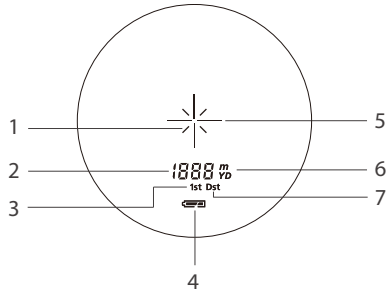
**Laser 30:** Measurement range: 7.3-1,460m/8-1,600yd.

**Laser 50 & 30 specifications:**

- Red internal display enables easier viewing in any situation. Automatic brightness adjustment function finetunes the display brightness according to the surrounding ambient light level.
- Quick and stable measurement response regardless of distance — HYPER READ displays the measurement result in approx. 0.3 second
- Single or continuous measurement (up to 8 seconds). If single measurement fails, it automatically extends the measurement until succeeding for up to 4 seconds. Keeping the button depressed enables continuous measurement for up to approx. 8 seconds.
- Four selectable measurement display modes
  - Horizontal distance and angle mode
  - Actual distance and angle mode
  - Horizontal distance and height mode
  - Actual distance and height mode
- Target Priority Switch System for measuring overlapping subjects:
  - First Target Priority mode displays the distance of the closest subject — useful when measuring the distance to a subject in front of an overlapping background.
  - Distant Target Priority mode displays that of the farthest subject — useful in wooded areas.
- Distance measurement display step: 0.1m/yd.
- High-quality 6x monocular with multilayer coating for bright, clear images
- Large ocular for easy viewing (18mm)
- Wide field of view (7.5 degrees)
- Long eye relief design affords eyeglass wearers easy viewing
- Dioptre adjustment function
- Compact body design for comfortable holding
- Waterproof (up to 1m/3.3 ft. for 10 minutes) and fogproof, but not designed for underwater usage; the battery chamber is rainproof
- Wide temperature tolerance: -10°C to +50°C/14°F to 122°F



Laser 50



- Internal display**
1. Laser irradiation mark (  $\times$  )
  2. Distance
  3. First Target Priority mode
  4. Battery condition
  5. Target mark ( —|— )
  6. Unit of measure (m/yd.)
  7. Distant Target Priority mode



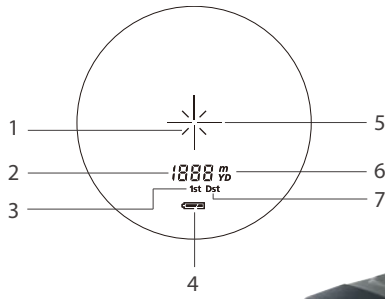
Laser 30

# PROSTAFF 1000

Compact laser rangefinder with Distant Target Priority mode

- Measurement range: 5-910m/6-1,000 yd.\*
- Target Priority Switch System for measuring overlapping subjects:
  - First Target Priority mode displays the distance of the closest subject — useful when measuring the distance to a subject in front of an overlapping background.
  - Distant Target Priority mode displays that of the farthest subject — useful in wooded areas.
- Distance measurement display step: 1m/yd.
- Single or continuous measurement (up to 8 seconds). If single measurement fails, it automatically extends the measurement until succeeding for up to 4 seconds. Keeping the power button depressed enables continuous measurement for up to approx. 8 seconds.
- High-quality 6x monocular with multilayer coating for bright, clear images
- Long eye relief design affords eyeglass wearers easy viewing
- Dioptre adjustment function
- Compact, lightweight and pocket-size design
- Rainproof — JIS/IEC protection class 4 (IPX4) equivalent
- Wide temperature tolerance: -10°C to +50°C/14°F to 122°F

\* Under Nikon's measurement conditions and reference values.



- Internal display**
1. Laser irradiation mark (  $\times$  )
  2. Distance
  3. First Target Priority mode
  4. Battery condition
  5. Target mark ( —|— )
  6. Unit of measure (m/yd.)
  7. Distant Target Priority mode



PROSTAFF 1000



# Forestry Pro II

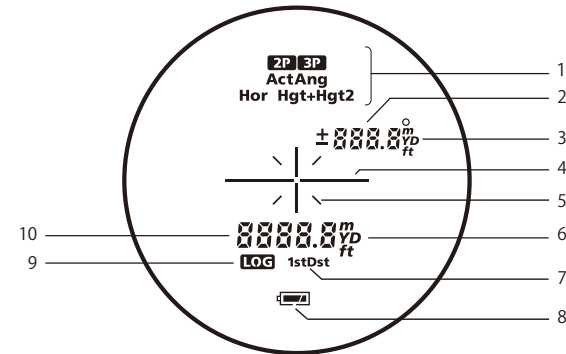
Ideal for basic forestry and land surveys — display in metres, yards or feet

- Measurement range: 7.5-1,600m/8-1,750 yd./25-5,250 ft.\*
- In addition to actual distance, horizontal distance, height, angle and vertical separation (difference in height between two targets) measurement functions, three-point measurement (height between two points) is available
- The results are displayed on both internal and external LCD panels. The external panel displays all results simultaneously.
- The external display employs backlighting for easy visibility even in dark situations, such as for forestry. Backlight brightness is adjustable to three levels.
- The log function enables up to 250 measurement results to be stored
- Quick and stable measurement response regardless of distance — HYPER READ
- The measurement result can be displayed in approx. 0.3 second on the internal display
- Target Priority Switch System for measuring overlapping subjects: First Target Priority mode displays the distance of the closest subject — useful when measuring the distance to a subject in front of an overlapping background. Distant Target Priority mode displays that of the farthest subject — useful in wooded areas.
- High-quality 6x monocular with multilayer coating produces bright, clear images
- Long eye relief design affords eyeglass wearers easy viewing
- Dioptre adjustment function
- Single or continuous measurement (up to 8 seconds)
- Waterproof (up to 1m/3.3 ft for 10 minutes) and fogproof, but not designed for underwater usage; the battery chamber is rainproof
- Wide temperature tolerance: -10°C to +50°C/14°F to 122°F

\* Under Nikon's measurement conditions and reference values.

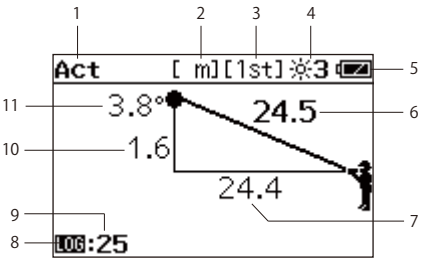
### Internal display

1. Measurement display mode
2. Distance or angle (sub-indicator)
3. Unit of measure (°: angle in degrees/m: meter/YD: yard/ft: feet)
4. Target mark (—|—)
5. Laser emission mark (X)
6. Unit of measure (m: meter/YD: yard/ft: feet)
7. Target Priority mode (1st: First Target Priority mode/Dst: Distant Target Priority mode)
8. Battery level indicator
9. Log indicator
10. Distance or height (main indicator)

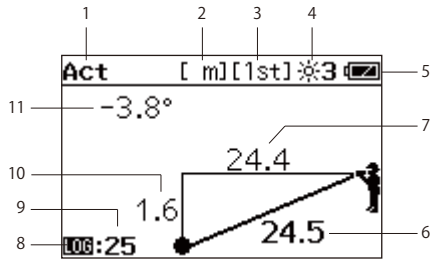


### External display

1. Measurement display mode
2. Unit of measure (m: meter/YD: yard/ft: feet)
3. Target Priority mode (1st: First Target Priority mode/Dst: Distant Target Priority mode)
4. External display backlight level
5. Battery level indicator
6. Actual distance
7. Horizontal distance
8. Log indicator
9. Log number
10. Height
11. Angle



When measuring upward

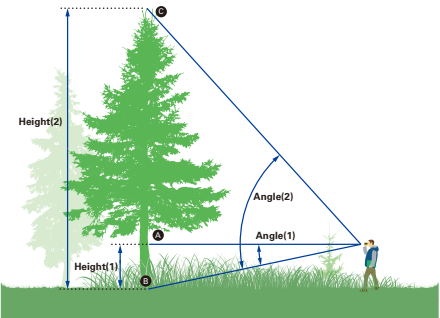


When measuring downward

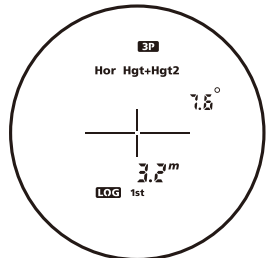


Forestry Pro II

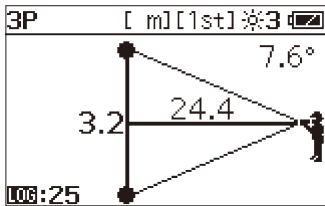
### Measurement example (three-point measurement: height between two points)



Used when the top and/or base of the targeted tree is not visible. This mode measures the horizontal distance to the tree, then measures the angles to the top and base to calculate the height between the two points.

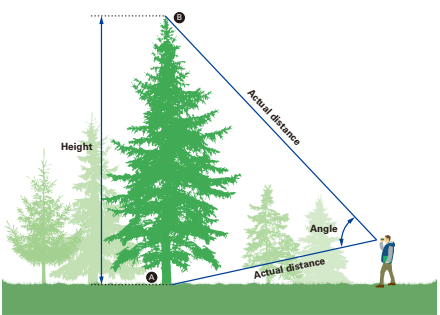


Internal display



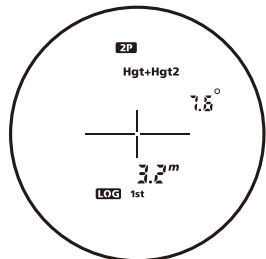
External display

### Measurement example (two-point measurement: height between two points)

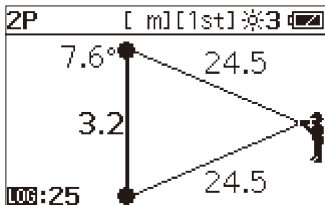


Used to measure the height of a tree when both the top and base are visible. Aim at the top of the tree and press the button to measure, then do the same at the base. The height between the two points will be displayed. For more information, refer to the external LCD.

"Base" and "Top" can be switched.



Internal display



External display

\* For specifications, see p 59.







# SPECIALTY OPTICS

Dedicated applications demand the expert attention that only Nikon delivers



# RELIABLE RESULTS





# Binocular Telescope

## 20x120 IV / 25x120 Binocular Telescope

- Large 120mm objective diameter realises a brighter, high-resolution image
- The Binocular Telescope 20x120 IV with a superior optical system achieves a sharp image with various aberrations effectively compensated
- The Binocular Telescope 25x120 enables high-power and dynamic observation with superior image flatness while realising a wide field of view (64.7° apparent field of view)
- Long eye relief design ensures a clear field of view. Horn-shaped rubber eyecups are employed for easier viewing.
- Airtight waterproof structure prevents rain and night dew entering. Fogproof construction filled with nitrogen gas keeps the binoculars fog-free inside. High corrosion-proofing and shake-resistance features maintain performance over an extended life.
- Equipped with a solid fork mount, easy handling is achieved with 360° horizontal rotation and -30° (downward) to +70° (upward) tilting
- Using a durable pillar stand w/adaptor (optional) enables stabler, easier observation

Model name	20x120 IV	25x120
Magnification (x)	20	25
Objective diameter (mm)	120	120
Angular field of view (real) (°)	3.0	2.9
Angular field of view (apparent) (°) *1	55.3	64.7
Field of view at 1,000 m/yd. (m/ft)	52/156	50/150
Exit pupil (mm)	6.0	4.8
Relative brightness	36.0	23.0
Eye relief (mm)	20.8	18.9
Close focusing distance (m/ft)	133/436.4	210/689.0
Length (mm/in.)	680/26.8	672/26.5
Width (mm/in.)	454/17.9	454/17.9
Height (mm/in.)	160/6.3	160/6.3
Weight (kg/oz.)	14/493.8	14/493.8
Interpupillary distance adjustment (mm/in.)	58-74/2.3-2.9	58-74/2.3-2.9
Dioptr adjustment (m <sup>-1</sup> )	-5 — +3	-5 — +3
Structure	Waterproof (up to 2m/6.6 ft for 10 minutes)*2 and nitrogen gas filled	

\*1 Apparent field of view is calculated based on the ISO14132-1:2002 standard.

\*2 The binocular telescope is waterproof, and will suffer no damage to the optical system if submerged or dropped in water to a maximum depth of 2m/6.6 ft for up to 10 minutes.



20x120 IV Binocular Telescope with Fork Mount.



25x120 Binocular Telescope with Fork Mount and Pillar Stand with Adapter.



## Fork Mount for 20x120 IV / 25x120

- Fork mount exclusively for Binocular Telescope 20x120 IV/25x120
- Easy handling with 360° horizontal rotation and -30° (downward) to +70° (upward) tilting

## Pillar Stand w/Adapter for 20x120 IV / 25x120

- Solid, durable pillar stand. A fork mount can be attached to a pillar stand with adapter, enabling observation with Binocular Telescope.



# Fieldmicroscopes

## EZ-Micro

- Stereoscopic observation at 20x magnification
- Made with environmentally friendly materials
- Built-in illumination system
- Exclusive compact design for easy operation



EZ-Micro

## Fieldmicroscope Fieldmicroscope Mini

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



Fieldmicroscope



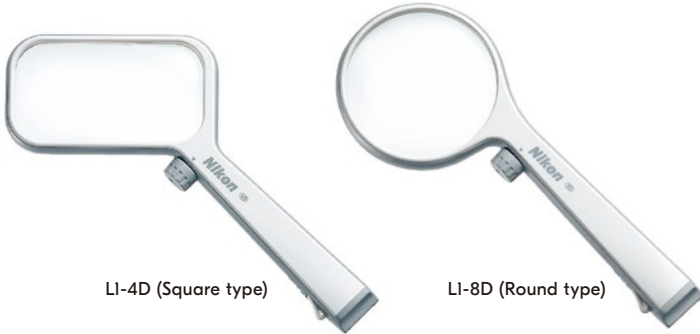
Fieldmicroscope Mini

Model name	EZ-Micro
Magnification (x)	20 (fixed)
Optical system	Upright, unreversed image; eyepiece dioptre adjustable for both eyes; 51 to 72mm interpupillary distance adjustment
Field of vision (mm)	11 (diameter)
Angle of view (°)	12.6
Vertical adjustment	38mm from the base of stage
Photographic optical system	Collimated light beam
Photographic magnification	Varies according to the attached digital camera model [Example: at A4-size printing] Approx. 20x (at 35mm-equivalent wide angle setting) to approx. 57x (at 100mm-equivalent telephoto setting)
Eye relief (mm)	12.8
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 (mm)	(In use) 162-202 (H) x 145 (D) x 106 (W) (Folded close) 138 (H) with lighting fitted
Weight (g)	Approx. 635 (without battery)
Filters	M37 x 0.75mm thread filters can be attached
Accessories (supplied)	Large carrying case; jointed strap

Model name	Fieldmicroscope	Fieldmicroscope Mini
Magnification (x)	20 (fixed)	
Optical system	Upright, unreversed image, eyepiece dioptre adjustable for right eye	
Interpupillary distance adjustment (mm)	56-72	51-72
Field of vision (mm)	11 (diameter)	
Angle of view (°)	12.6	
Vertical adjustment	50mm from the base of stage	42mm from the base of stage
Eye relief (mm)	11.1	12.8
Plate	Removal and reversible (top: flat; underside: built-in cup)	
Dimensions (mm)	(In use) 184-238(H) x94(D) x100(W) (Folded close) 144(H)	(In use) 156-202(H) x89(D) x90(W) (Folded close) 124(H)
Weight (g)	Approx. 610	Approx. 395
Accessories (supplied)	Soft case; head unit cover; strap	Soft case; strap



Loupes



Reading Magnifier LI Series

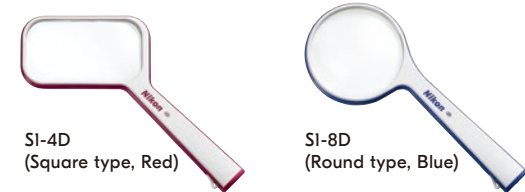
- Built-in LED illumination provides natural light across a broad area
- Lighting unit easily switched on/off. Lighting angle can also be adjusted.
- High-precision aspherical lens reduces image distortion all the way to the lens periphery
- Hard coating on the lens surfaces to prevent scratching
- Rubber material on the handle for a comfortable, secure grip
- Can be held in either the left or right hand
- Available in two types: 4D and 8D

Model name	Reading Magnifier LI Series	
	LI-4D (Square type)	LI-8D (Round type)
Effective size/diameter of lens (mm)	100 x 54	80
Refractive power (dioptries)	4	8
Reference magnification (x)	1.5	2
Lens material	Acrylic (PMMA) lens	
Lens form	Equiconvex aspherical lens	
Surface coating	Hard coating	
Dimensions (L x W x D) (mm)	160 x 198 x 17	230 x 91 x 17
Weight (g) (without battery)	115	114
Light source	White LED x1	
Power	LR03 (AAA size) alkaline battery x 1	
Battery life (at a temperature of 25°C)*	Approx. 8 hours	

\* Battery life varies depending on temperature, humidity and other conditions.  
Reference magnification is when an object is clearly visible at approx. 250mm.

Reading Magnifier SI Series

- High-precision aspherical lens reduces image distortion all the way to the lens periphery
- Hard coating on the lens surfaces to prevent scratching
- Rubber material on the handle for a comfortable, secure grip
- Can be held in either the left or right hand
- Available in two colours: red and blue, and three types: 4D, 8D and 10D



Reading Magnifier UI-4D

- Minimises the burden on the hand and arm while holding (Universal Design)
- Handle can rotate 360 degrees and its angle can be adjusted freely
- Folding the handle enables compact storage
- High-precision aspherical lens reduces image distortion all the way to the lens periphery
- Hard coating on the lens surfaces to prevent scratching
- Can be held in either the left or right hand



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	Reading Magnifier SI Series		
	SI-4D (Square type)	SI-8D (Round type)	SI-10D (Round type)
Colour	Red/Blue		
Effective size/diameter of lens (mm)	100 x 54	80	60
Refractive power (dioptries)	4	8	10
Reference magnification (x)	1.5	2	2.5
Lens material	Acrylic (PMMA) lens		
Lens form	Equiconvex aspherical lens		
Surface coating	Hard coating		
Size (L x W x D) (mm)	160 x 198 x 17	230 x 91 x 17	190 x 71 x 15
Weight (g)	109	108	65

Reference magnification is when an object is clearly visible at approx. 250mm.

Model name	Reading Magnifier UI-4D
Effective size of lens (mm)	100 x 54
Refractive power (dioptries)	4
Reference magnification (x)	1.5
Lens material	Acrylic (PMMA) lens
Lens form	Equiconvex aspherical lens
Surface coating	Hard coating
Size (L x W x D) (mm)	83 x 142 (up to 242 when the handle is open) x 18
Weight (g)	103

Reference magnification is when an object is clearly visible at approx. 250mm.

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

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

TECHNICAL DATA































	EDG		MONARCH	
Model name	EDG 7x42	EDG 8x42	EDG 10x42	MONARCH HG 8x30
Magnification (x)	7	8	10	8
Objective diameter (mm)	42	42	42	30
Angular field of view (Real/degree)	8.0	7.7	6.5	8.3
Angular field of view (Apparent/degree)	52.2	56.6	59.2	60.3
Field of view at 1,000m (m)	140	135	114	145
Exit pupil (mm)	6.0	5.3	4.2	3.8
Relative brightness	36.0	28.1	17.6	14.4
Eye relief (mm)	22.1	19.3	18.0	16.2
Close focusing distance (m)	3.0	3.0	3.0	2.0
Interpupillary distance adjustment (mm)	55-76	55-76	55-76	56-74
Weight (g)	785	785	790	450
Length (mm)	149	148	151	119
Width (mm)	141	141	141	126
Depth (mm)	54	54	54	47
Type	Roof	Roof	Roof	Roof



Note: Apparent field of view is calculated based on the ISO 14132-1:2002 standard. For details, see p 55.


SPECIFICATIONS


	MONARCH 			MONARCH M7				MONARCH M5				MONARCH 		
														
Model name	MONARCH HG 10x30	MONARCH HG 8x42	MONARCH HG 10x42	MONARCH M7 8x30	MONARCH M7 10x30	MONARCH M7 8x42		MONARCH M7 10x42	MONARCH M5 8x42	MONARCH M5 10x42	MONARCH M5 12x42	MONARCH 5 8x56	MONARCH 5 16x56	MONARCH 5 20x56
Magnification (x)	10	8	10	8	10	8		10	8	10	12	8	16	20
Objective diameter (mm)	30	42	42	30	30	42		42	42	42	42	56	56	56
Angular field of view (Real/degree)	6.9	8.3	6.9	8.3	6.7	8.3		6.9	6.4	5.6	5.1	6.2	4.1	3.3
Angular field of view (Apparent/degree)	62.2	60.3	62.2	60.3	60.7	60.3		62.2	48.2	52.1	56.2	46.9	59.6	59.9
Field of view at 1,000m (m)	121	145	121	145	117	145		121	112	98	89	108	72	58
Exit pupil (mm)	3.0	5.3	4.2	3.8	3.0	5.3		4.2	5.3	4.2	3.5	7.0	3.5	2.8
Relative brightness	9.0	28.1	17.6	14.4	9.0	28.1		17.6	28.1	17.6	12.3	49.0	12.3	7.8
Eye relief (mm)	15.2	17.8	17.0	15.1	15.8	17.1		16.5	19.5	18.4	15.1	20.5	16.4	16.4
Close focusing distance (m)	2.0	2.0	2.0	2.0	2.0	2.5		2.5	2.5	2.5	2.5	7.0	5.0	5.0
Interpupillary distance adjustment (mm)	56-74	56-74	56-74	56-72	56-72	56-72		56-72	56-72	56-72	56-72	60-72	60-72	60-72
Weight (g)	450	665	680	465	470	670		680	630	640	640	1,140	1,230	1,235
Length (mm)	119	145	145	119	119	142		142	145	145	145	199	199	199
Width (mm)	126	131	131	125	125	130		130	129	129	129	146	146	146
Depth (mm)	47	56	56	48	48	57		57	54	54	54	67	67	67
Type	Roof	Roof	Roof	Roof	Roof	Roof		Roof	Roof	Roof	Roof	Roof	Roof	Roof
	PROSTAFF P7				PROSTAFF P3				ACULON T02			ACULON A21I		
														
Model name	PROSTAFF P7 8x30	PROSTAFF P7 10x30	PROSTAFF P7 8x42	PROSTAFF P7 10x42	PROSTAFF P3 8x30	PROSTAFF P3 10x30		PROSTAFF P3 8x42	PROSTAFF P3 10x42	ACULON T02 8x21	ACULON T02 10x21	ACULON A21I 7x35	ACULON A21I 8x42	ACULON A21I 10x42
Magnification (x)	8	10	8	10	8	10		8	10	8	10	7	8	10
Objective diameter (mm)	30	30	42	42	30	30		42	42	21	21	35	42	42
Angular field of view (Real/degree)	8.7	6.6	7.2	7	8.7	6.6		7.2	7	6.3	5.0	9.3	8.0	6.0
Angular field of view (Apparent/degree)	62.6	59.9	53.4	62.9	62.6	59.9		53.4	62.9	47.5	47.2	59.3	58.4	55.3
Field of view at 1,000m (m)	152	115	126	122	152	115		126	122	110	87	163	140	105
Exit pupil (mm)	3.8	3.0	5.3	4.2	3.8	3.0		5.3	4.2	2.6	2.1	5.0	5.3	4.2
Relative brightness	14.4	9.0	28.1	17.6	14.4	9.0		28.1	17.6	6.8	4.4	25.0	28.1	17.6
Eye relief (mm)	15.4	15.4	20.2	15.7	15.4	15.4		20.2	15.7	10.3	8.3	11.8	12.0	11.6
Close focusing distance (m)	2.5	2.5	3.0	3.0	2.5	2.5		3.0	3.0	3.0	3.0	5.0	5.0	5.0
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	56-72
Weight (g)	485	470	590	600	475	465		575	585	195	195	685	755	760
Length (mm)	125	125	152	150	125	125		152	150	87	87	118	145	145
Width (mm)	130	130	130	130	130	130		130	130	104	104	185	185	185
Depth (mm)	52	52	55	55	52	52		54	54	34	34	62	62	62
Type	Roof	Roof	Roof	Roof	Roof	Roof		Roof	Roof	Roof	Roof	Porro	Porro	Porro



Note: Apparent field of view is calculated based on the ISO 14132-1:2002 standard. For details, see p 55.

SPECIFICATIONS


	ACULON A211						ACULON A30		Elegant Compact						Compact & High Grade			
																		
Model name	ACULON A211 7x50	ACULON A211 10x50	ACULON A211 12x50	ACULON A211 16x50	ACULON A211 8-18x42†	ACULON A211 10-22x50††	ACULON A30 8x25		ACULON A30 10x25	4x10DCF	6x15M CF	7x15M CF Black	5x15 HG Monocular	7x15 HG Monocular	Sportstar EX 8x25DCF	Sportstar EX 10x25DCF		
Magnification (x)	7	10	12	16	8-18	10-22	8		10	4	6	7	5	7	8	10		
Objective diameter (mm)	50	50	50	50	42	50	25		25	10	15	15	15	15	25	25		
Angular field of view (Real/degree)	6.4	6.5	5.2	4.2	4.6	3.8	6.0		5.0	10.0	8.0	7.0	9.0	6.6	8.2	6.5		
Angular field of view (Apparent/degree)	42.7	59.2	57.2	60.8	35.6	36.7	45.5		47.2	38.6	45.5	46.4	43.0	44.0	59.7	59.2		
Field of view at 1,000m (m)	112	114	91	73	80	66	105		87	175	140	122	157	115	143	114		
Exit pupil (mm)	7.1	5.0	4.2	3.1	5.3	5.0	3.1		2.5	2.5	2.5	2.1	3.0	2.1	3.1	2.5		
Relative brightness	50.4	25.0	17.6	9.6	28.1	25.0	9.6		6.3	6.3	6.3	4.4	9.0	4.4	9.6	6.3		
Eye relief (mm)	17.6	11.8	11.5	12.6	9.8	8.6	15.0		13.0	13.7	10.1	10.0	15.8	12.0	10.0	10.0		
Close focusing distance (m)	8.0	7.0	8.0	9	13.0	15.0	3.0		3.0	1.2	2.0	2.0	0.6	0.8	2.5	3.5		
Interpupillary distance adjustment (mm)	56-72	56-72	56-72	56-72	56-72	56-72	56-72		56-72	57-72	56-72	56-72	—	—	56-72	56-72		
Weight (g)	905	900	910	925	825	960	275		275	65	130	135	75	75	300	300		
Length (mm)	180	179	179	179	163	197	125		122	52	48	47	71	71	103	103		
Width (mm)	197	197	197	197	185	197	115 (72*)		115 (72*)	93	108	108	30	30	114 (67*)	114 (67*)		
Depth (mm)	68	68	68	68	61	68	44 (56*)		44 (56*)	19	36	36	30	30	43 (54*)	43 (54*)		
Type	Porro	Porro	Porro	Porro	Porro	Porro	Roof		Roof	Roof	Porro	Porro	Roof	Roof	Roof	Roof		

	Marine								Standard							
																
Model name	TRAVELITE EX 8x25CF	TRAVELITE EX 9x25CF	TRAVELITE EX 10x25CF	TRAVELITE EX 12x25CF	8x20HG L DCF	10x25HG L DCF	Sportstar Zoom 8-24x25		7x50CF WP	7x50CF WP Global Compass	7x50IF WP	7x50IF HP WP Tropical	10x70IF HP WP	10x50CF WP	Action EX 7x35CF	Action EX 8x40CF
Magnification (x)	8	9	10	12	8	10	8-24		7	7	7	7	10	10	7	8
Objective diameter (mm)	25	25	25	25	20	25	25		50	50	50	50	70	50	35	40
Angular field of view (Real/degree)	6.3	5.6	5.0	4.2	6.8	5.4	4.6		7.2	7.2	7.5	7.3	5.1	6.2	9.3	8.2
Angular field of view (Apparent/degree)	47.5	47.5	47.2	47.5	50.8	50.5	35.6		47.5	47.5	49.3	48.1	48.0	56.9	59.3	59.7
Field of view at 1,000m (m)	110	98	87	73	119	94	80		126	126	131	128	89	108	163	143
Exit pupil (mm)	3.1	2.8	2.5	2.1	2.5	2.5	3.1		7.1	7.1	7.1	7.1	7.0	5.0	5.0	5.0
Relative brightness	9.6	7.8	6.3	4.4	6.3	6.3	9.6		50.4	50.4	50.4	50.4	49.0	25.0	25.0	25.0
Eye relief (mm)	15.5	15.8	15.9	15.9	15.0	15.0	13.0		22.7	22.7	15.0	15.0	15.0	17.4	17.3	17.2
Close focusing distance (m)	2.8	2.8	2.8	2.8	2.4	3.2	4.0		10.0	10.0	25.0	24.5	50.0	17.0	5.0	5.0
Interpupillary distance adjustment (mm)	56-72	56-72	56-72	56-72	56-72	56-72	56-72		56-72	56-72	59-72	56-72	56-72	56-72	56-72	56-72
Weight (g)	355	360	365	365	270	300	305		1,115	1,130	1,115	1,360	1,985	1,070	800	855
Length (mm)	100	101	102	103	96	112	123		193	193	178	217	304	190	120	138
Width (mm)	116	116	116	116	109 (65*)	109 (67*)	109		202	202	203	210	234	202	184	187
Depth (mm)	56	56	56	56	45 (49*)	45 (49*)	51		71	81	70	80	91	71	62	63
Type	Porro	Porro	Porro	Porro	Roof	Roof	Roof		Porro	Porro	Porro	Porro	Porro	Porro	Porro	Porro



Note: Apparent field of view is calculated based on the ISO 14132-1:2002 standard. For details, see p 55.

	Standard				The Standard for Advanced Nature Observation	
						
Model name	Action EX 7x50CF	Action EX 10x50CF	Action EX 12x50CF	Action EX 16x50CF	8x30E II	10x35E II
Magnification (x)	7	10	12	16	8	10
Objective diameter (mm)	50	50	50	50	30	35
Angular field of view (Real/degree)	6.4	6.5	5.5	3.5	8.8	7.0
Angular field of view (Apparent/degree)	42.7	59.2	59.9	52.1	63.2	62.9
Field of view at 1,000m (m)	112	114	96	61	154	122
Exit pupil (mm)	7.1	5.0	4.2	3.1	3.8	3.5
Relative brightness	50.4	25.0	17.6	9.6	14.4	12.3
Eye relief (mm)	17.1	17.2	16.1	17.8	13.8	13.8
Close focusing distance (m)	7.0	7.0	7	7.0	3.0	5.0
Interpupillary distance adjustment (mm)	56-72	56-72	56-72	56-72	56-72	56-72
Weight (g)	1,000	1,020	1,045	1,040	575	625
Length (mm)	179	178	178	177	101	126
Width (mm)	196	196	196	196	181	183
Depth (mm)	68	68	68	68	54	54
Type	Porro	Porro	Porro	Porro	Porro	Porro

	WX				
					
Model name	7x50IF SP WP	10x70IF SP WP	18x70IF WP WF	WX 7x50 IF	WX 10x50 IF
Magnification (x)	7	10	18	7	10
Objective diameter (mm)	50	70	70	50	50
Angular field of view (Real/degree)	7.3	5.1	4.0	10.7	9.0
Angular field of view (Apparent/degree)	48.1	48.0	64.3	66.6	76.4
Field of view at 1,000m (m)	128	89	70	188	157
Exit pupil (mm)	7.1	7.0	3.9	7.1	5.0
Relative brightness	50.4	49.0	15.2	50.4	25.0
Eye relief (mm)	16.2	16.3	15.4	17.7	15.3
Close focusing distance (m)	12.4	25.0	81.0	12.3	20.0
Interpupillary distance adjustment (mm)	56-72	56-72	56-72	58-78	58-78
Weight (g)	1,485	2,100	2,050	2,420	2,505
Length (mm)	217	304	293	272	291
Width (mm)	210	234	234	171	171
Depth (mm)	80	91	91	80	80
Type	Porro	Porro	Porro	Roof (Abbe-Koenig)	Roof (Abbe-Koenig)

Binocular Accessories

Tripod/monopod adaptors

TRA-2 Usable models

- ACULON A21I series
- Action series
- Action zoom series
- Action EX series
- 7x50CF WP/  
7x50CF WP Compass/  
7x50CF WP Global Compass
- 7x50IF WP/  
7x50IF WP Compass
- 10x50CF WP



TRA-3 Usable models

- EDG 8x32/10x32/7x42/8x42/10x42
- MONARCH HG 8x42/10x42
- MONARCH 7 8x30/10x30/8x42/10x42
- MONARCH 5 8x42/10x42/12x42/8x56/16x56/20x56
- MONARCH 36/42/56 series
- PROSTAFF 7S 8x42/10x42
- PROSTAFF 7 8x42/10x42
- Action series
- Action zoom series
- Action EX series
- 7x50CF WP/7x50CF WP Compass/7x50CF WP Global Compass
- 7x50IF WP/7x50IF WP Compass
- 10x50CF WP



Tripod Adaptor TRA-5 Usable models

- WX 7x50 IF/10x50 IF
- 7x50IF SP WP/10x70IF SP WP
- 7x50IF HP WP Tropical
- 10x70IF HP WP
- 18x70IF WP WF



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



Adaptor H (for roof prism binoculars) Usable models

- EDG 8x32/10x32/7x42/8x42/10x42
- MONARCH HG 8x42/10x42
- MONARCH 7 8x30/10x30/8x42/10x42
- MONARCH 5 8x42/10x42/12x42
- MONARCH 36/42 series
- PROSTAFF 7S 8x30/10x30/8x42/10x42
- PROSTAFF 7 8x42/10x42
- PROSTAFF 5 8x42/10x42
- PROSTAFF 3S 8x42/10x42
- 8x42HG L DCF
- 10x42HG L DCF
- 8x32HG L DCF
- 10x32HG L DCF



Hard (H) type

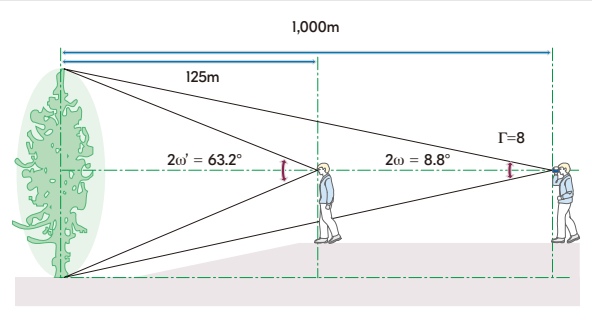
Values for Apparent Field of View

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:

$\tan \omega' = \Gamma \times \tan \omega$   
Apparent field of view:  $2\omega'$   
Real field of view:  $2\omega$   
Magnification:  $\Gamma$

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



$2\omega' = 2 \times \tan^{-1} (\Gamma \times \tan \omega)$   
 $= 2 \times \tan^{-1} (8 \times \tan 4.4^\circ)$   
 $= 63.2^\circ$



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






MONARCH Fieldscopes

		
Model name	MONARCH Fieldscope 82ED-S	MONARCH Fieldscope 82ED-A
Objective diameter (mm)	82	82
Close focusing distance (m)	5.0	5.0
Filter-attachment size (mm)	86 (P=1.0)	86 (P=1.0)
Length x height x width (mm) (body only) <sup>*1</sup>	325 (355 <sup>*2</sup> ) x 124 x 103	334 (364 <sup>*2</sup> ) x 112 x 108
Weight (g) (body only) <sup>*1</sup>	1,650	1,640
Waterproof performance	Fieldscope unit: Waterproof and fogproof (up to 1 m for 10 min., nitrogen gas purged) <sup>*3</sup>	

<sup>\*1</sup> Without caps.  
<sup>\*2</sup> When hood is fully extended.  
<sup>\*3</sup> This product will suffer no damage to the optical system if submerged or dropped in water to a maximum depth of 1 metre for up to 10 minutes. NOT designed for underwater usage.








Note: Above specifications do not include eyepieces.

Eyepieces for MONARCH Fieldscopes

	Model name	Magnification (x)	Angular field of view (Real/degree)	Angular field of view (Apparent/degree) <sup>*1</sup>	Field of view at 1,000m (m) (approx.)	Exit pupil (mm)	Relative brightness	Eye relief (mm)	Weight (g) <sup>*2</sup>
	MEP-38W								
	with MONARCH 82 series	38	2.0	66.4	35	2.2	4.8	18.5	270
	MEP-20-60								
	with MONARCH 82 series	20-60	2.1-1.0 <sup>*3</sup>	40.4-54.3 <sup>*3</sup>	37-17 <sup>*3</sup>	4.1-1.4 <sup>*3</sup>	16.8-2.0 <sup>*3</sup>	16.1-15.3 <sup>*3</sup>	350
	MEP-30-60W								
	with MONARCH 82 series	30-60	2.0-1.2 <sup>*3</sup>	55.3 - 65.6 <sup>*3</sup>	35-21 <sup>*3</sup>	2.7-1.4 <sup>*3</sup>	7.3-2.0 <sup>*3</sup>	15.2-14.2 <sup>*3</sup>	370 (with DS) <sup>*4</sup> 400 (with TS) <sup>*5</sup>

<sup>\*1</sup> Calculated based on the ISO14132-1:2002 standard.   <sup>\*2</sup> Without caps.   <sup>\*3</sup> Designed reference value at highest magnification.   <sup>\*4</sup> When the DS (digiscoping) ring attachment is attached.   <sup>\*5</sup> When the TS (turn slide) ring attachment is attached.  
Note: Because values shown on these charts were designed values rounded up/down, calculation of figures may not match exactly.




Fieldscopes

							
Model name	PROSTAFF 5 Fieldscope 82	PROSTAFF 5 Fieldscope 82-A	PROSTAFF 5 Fieldscope 60	PROSTAFF 5 Fieldscope 60-A	PROSTAFF 3 Fieldscope <sup>*2</sup>	Fieldscope ED50	Fieldscope ED50 A
Objective diameter (mm)	82	82	60	60	60	50	50
Length (mm) <sup>*1</sup>	377	392	290	305	313	209	207
Width (mm) <sup>*1</sup>	95	95	85	85	74	71	71
Weight (g) <sup>*1</sup>	950	960	740	750	620	455	470

<sup>\*1</sup> Body only (except PROSTAFF 3 Fieldscope).   <sup>\*2</sup> For detailed specifications, see p 53.


SPECIFICATIONS

Eyepieces for PROSTAFF 5 Fieldscopes

	Model name	Magnification (x)	Angular field of view (Real/degree)	Angular field of view (Apparent/degree) <sup>*</sup>	Field of view at 1,000m (m) (approx.)	Exit pupil (mm)	Relative brightness	Eye relief (mm)	Weight (g)
	SEP-25								
	With 60/60-A	20	2.8	51.3	48	3.0	9.0	17.6	135
	With 82/82-A	25	2.2	51.3	38	3.3	10.9	17.6	135
	SEP-38W								
	With 60/60-A	30	2.3	62.1	40	2.0	4.0	19.0	185
	With 82/82-A	38	1.8	62.1	31	2.2	4.8	19.0	185
	SEP-20-60								
	With 60/60-A	16-48	2.6 (at 16x)	39.9 (at 16x)	45 (at 16x)	3.8 (at 16x)	14.4 (at 16x)	16.9 (at 16x)	225
	With 82/82-A	20-60	2.1 (at 20x)	39.9 (at 20x)	36 (at 20x)	4.1 (at 20x)	16.8 (at 20x)	16.9 (at 20x)	225






<sup>\*</sup> Apparent field of view is calculated based on the ISO 14132-1:2002 standard. For details, see p 55.

PROSTAFF 3 Fieldscopes

	Model name	Magnification (x)	Angular field of view (Real/degree)	Angular field of view (Apparent/degree) <sup>*</sup>	Field of view at 1,000m (m) (approx.)	Exit pupil (mm)	Relative brightness	Eye relief (mm)
	PROSTAFF 3 Fieldscope	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)

<sup>\*</sup> Apparent field of view is calculated based on the ISO 14132-1:2002 standard. For details, see p 55.

Eyepieces for Fieldscope ED50/ED50 A

	Model name	Magnification (x)	Angular field of view (Real/degree)	Angular field of view (Apparent/degree) <sup>*3</sup>	Field of view at 1,000m (m) (approx.)	Exit pupil (mm)	Relative brightness	Eye relief (mm)	Weight (g)
	13-30x/20-45x/25-56x MC zoom <sup>*1</sup>	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
	13-40x/20-60x/25-75x MC II zoom <sup>*1*2</sup> 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
	16x/24x/30x Wide DS <sup>*1*2</sup> With ED50/ED50 A	16	4.5	64.3	79	3.1	9.6	18.7	170
	27x/40x/50x Wide DS <sup>*1*2</sup> With ED50/ED50 A	27	2.7	64.3	47	1.9	3.6	17.8	180
	40x/60x/75x Wide DS <sup>*1*2</sup> With ED50/ED50 A	40	1.8	64.3	31	1.3	1.7	17.0	190

<sup>\*1</sup> These eyepieces are not to be used for Fieldscope I series.   <sup>\*2</sup> Turn-and-slide rubber eyecup.   <sup>\*3</sup> Apparent field of view is calculated based on the ISO 14132-1:2002 standard. For details, see p 55.  
Note: All eyepieces can be used for Fieldscope II series, ED78 series, III series, EDIII series and ED82 series.



SPECIFICATIONS

								
Model name	COOLSHOT PROII STABILIZED	COOLSHOT LITE STABILIZED	COOLSHOT 50i	COOLSHOT 20 GII	Laser 50	Laser 30	PROSTAFF 1000	Forestry Pro II
Measurement range*	7.5-1,090m/8-1,200 yd.	7.5-1,090m/8-1,200 yd.	5-1,090m/6-1,200 yd.	5-730m/6-800 yd.	9.1-1,820m/10-2,000 yd. Angle: ±89°	7.3-1,460m /8-1,600 yd. Angle: ±89°	5-910m/6-1,000 yd.	7.5-1,600m/8-1,750 yd./25-5,250 ft. Angle: ±89°
Distance display (Increment)	±0.75m/yd. (shorter than 700m/yd.) ±1.25m/yd. (700m/yd. and over, shorter than 1,000m/yd.) ±1.75m/yd. (1,000m/yd. and over)	±0.75m/yd. (shorter than 700m/yd.) ±1.25m/yd. (700m/yd. and over, shorter than 1,000m/yd.) ±1.75m/yd. (1,000m/yd. and over)	±1m/yd. (shorter than 100m/yd.) ±2m/yd. (100m/yd. and over, shorter than 1,000m/yd.) ±0.5% m/yd. (1,000m/yd. and over)	Every 1m/yd.	Actual Distance: every 0.1m/yd. Horizontal Distance: every 0.1m/yd. Height (upper): every 1m/yd. (100m/yd. and over) Angle: every 0.1°	Actual Distance: every 0.1m/yd. Horizontal Distance: every 0.1m/yd. Height (upper): every 1m/yd. (100m/yd. and over) Angle: every 0.1°	Every 1m/yd.	[Internal Display] Act (Actual Distance): Main-indicator: every 0.1m/yd./ft. Sub-indicator: every 0.1m/yd./ft. (shorter than 999.9m/ yd./ft.), every 1m/yd./ft. (1000.0 m/yd./ft. and over) Hor (Horizontal Distance) and Hgt (Height): every 0.1m/ yd./ft. Ang (Angle): every 0.1° [External Display] Act (Actual Distance), Hor (Horizontal Distance) and Hgt (Height): every 0.1m/yd./ft. Ang (Angle): every 0.1°
Accuracy* (actual distance)	Actual distance (upper): every 1m/yd. Actual distance (lower): every 0.5m/yd. Horizontal distance/Slope adjusted distance (lower): every 0.2m/yd. Height (upper): every 0.2m/yd (shorter than 100m/yd.) every 1m/yd. (100m/yd. and over)	Actual distance (upper): every 1m/yd. Actual distance (lower): every 0.5m/yd. Slope adjusted distance (lower): every 0.2m/yd.	Actual distance (upper): every 1m/yd. Actual distance (lower): every 0.5m/yd. (shorter than 1,000m/yd.) 1m/yd. (1,000m/yd. and over) Slope adjusted distance (lower): every 0.2m/yd. 1m/yd. (1,000m/yd. and over)	±1m/yd. (shorter than 100m/yd.) ±2m/yd. (100m/yd. and over)	±0.75m/yd. (shorter than 600m/yd.) ±1.00m/yd. (600m/yd. and over, shorter than 1,000m/yd.) ±1.50m/yd. (1,000m/yd. and over)	±0.50m/yd. (shorter than 700m/yd.) ±1.00m/yd. (700m/yd. and over, shorter than 1,000m/yd.) ±1.50m/yd. (1,000m/yd. and over)	±1m/yd. (shorter than 100m/yd.) ±2m/yd. (100m/yd. and over)	±0.3 m/±0.3 yd./±0.9 ft (shorter than 1,000 m/1,000 yd./3,280 ft) ±1.0 m/±1.0 yd./±3.0 ft (1,000 m/1,000 yd./3,280 ft and over)
Finder	Magnification (x)	6	6	6	6	6	6	6
	Effective objective diameter (mm)	21	21	22	20	21	21	20
	Actual field of view (°)	7.5	7.5	6.0	6	7.5	7.5	6
	Exit pupil (mm)	3.5	3.5	3.7	3.3	3.5	3.5	3.3
	Eye relief (mm)	18.0	18.0	17.0	16.7	18.0	18.0	16.7
Dimensions (L x H x W) (mm)	100×75×42	96×74×41	100×75×38	91 x 73 x 37	110 x 74 x 41	96 x 74 x 42	91 x 73 x 37	110 x 74 x 42
Weight (excluding battery) (g)	180	170	175	130	180	175	130	170
Power source	CR2 lithium battery x 1 (DC3V) Auto power shutoff function equipped (after 8 sec. unoperated)				CR2 lithium battery x 1 (DC 3V). Auto power shut-off (after approx. 30 sec. unoperated)	CR2 lithium battery x 1 (DC3V) Auto power shutoff function equipped (after 8 sec. unoperated)		CR2 lithium battery x 1 (DC 3V) Auto power shut-off (after approx. 30 sec. unoperated)
Laser classification	IEC60825-1: Class 1M/Laser Product FDA/21 CFR Part 1040.10: Class I Laser Product							
Electromagnetic compatibility	FCC Part15 SubPartB class B, EU:EMC directive, AS/NZS, VCCI classB, CU TR 020, ICES-003							
Environment	RoHS, 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.  
\* Under Nikon's measurement conditions.