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. At Nikon Sport Optics, our mission is not just to meet your demands, but to exceed your expectations.

DISCOVER MORE

May 2020

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

NIKON VISION CO., LTD. www.nikon.com/sportoptics

Code No. 3CE-BQYH-10(2005-00)K

En

SPORT OPTICS

WHY NIKON?

Exacting precision across a full spectrum of optical technologies
Widely acknowledged as the global leader in precision optics, Nikon's roots go back to the development of our first binoculars in 1917. Since then, Nikon has continued to build on the knowhow of generations of optical and precision technology experts with an enduring passion for quality and innovation.
Day in and day out, our products are tested in the world's most demanding environments. 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. And our ongoing collaboration with other Nikon technologies adds even further to your viewing excitement, letting you capture those precious moments with the Nikon Digiscoping System, for example, or measure distances with speed and ease using one of our laser rangefinders. Read on and discover the tools that can help you live life larger.

TABLE OF CONTENTS

Bring REAL to Life

Imagine feeling the natural power of life.

The sharp, clear image in the entire field of view brings nature's vibrant colours right to you.

Revel in the sensation of truly being there, thanks to Nikon's technology.

This is excitement you've never before experienced, the pure joy of discovering the "real" in its genuine colours.

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 7× to 10× magnification are suited for general nature viewing. Observing whales or birds at a greater distance is more comfortable with 8× to 12× 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 7× to 10× 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 4× to 8× are recommended for theatre and concert use. To focus on a particular performer, 7× to 10× 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

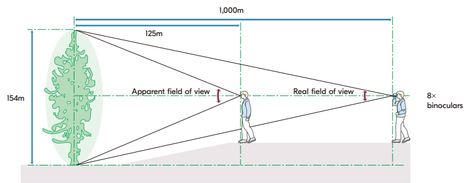
Nikon offers an extensive lineup of binoculars — including several of the world's most popular series — for a diverse range of applications. Each model features various technical specifications that can help you in making the right selection. Magnification is usually considered most important, but field 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 7× 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 6× to 10× are recommended for handheld outdoor use. With magnifications of 12× 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 "8×40 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.



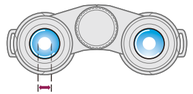
* Apparent field of view is calculated based on the ISO 14132-1:2002 standard. For details, see p 51.

Objective lens diameter

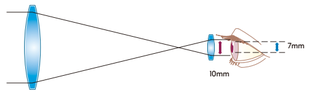
The objective lens diameter, combined with the quality of lens and prism coatings, determines the amount of light gathered to form an image. If you are regularly observing in poor light conditions, such as early dawn or dusk, or in forested areas, you may need a larger objective lens. But large-diameter 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.



Diameter of exit pupil

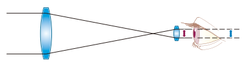


10mm pupil diameter of the binoculars and
7mm pupil diameter of a human eye

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.

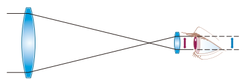
In daylight



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

In darkness

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



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

How to read the numerical information code for binoculars

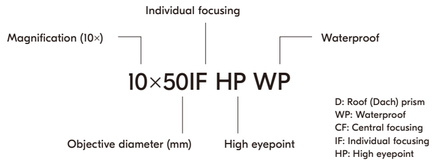
All Nikon binoculars are designated with a numerical formula, such as "10×25 5.4°". The value "10×" indicates the magnification of the binoculars. If a person uses 10× binoculars to observe a wild bird from a distance of 100 metres, for example, it will appear to the observer as if he or she were viewing the bird from a distance of 10 metres (100 divided by 10 equals 10) with the naked eye.

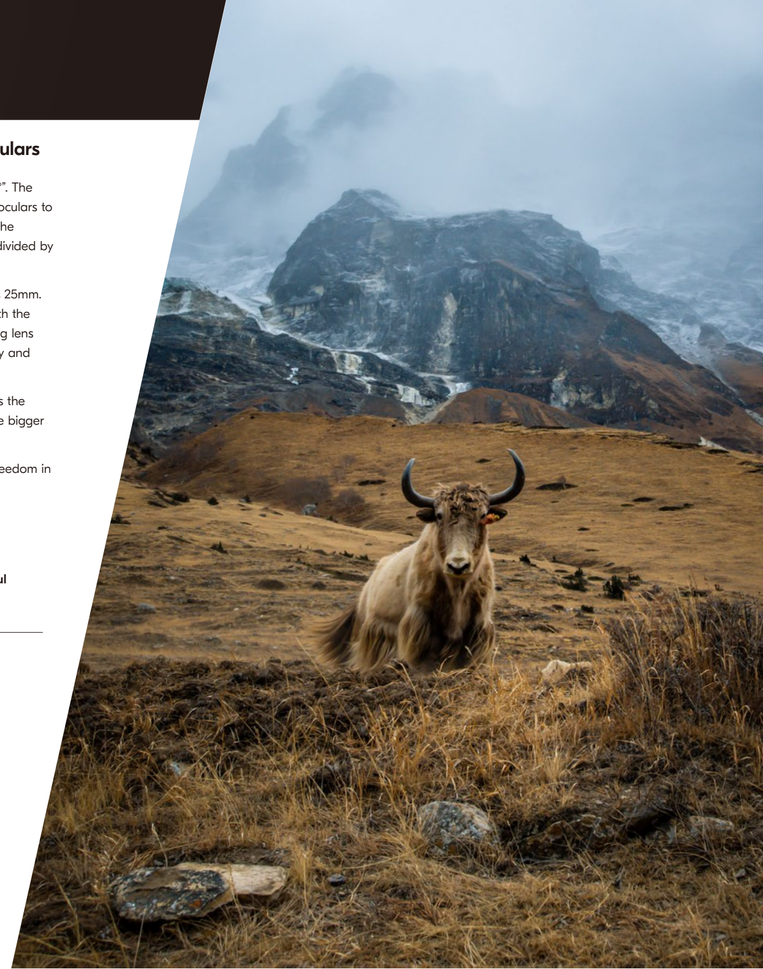
The next number, "25", tells you that the effective diameter of the objective lens is 25mm. The greater the diameter of the objective lens, the brighter your image will be with the same illumination. (Nikon's superior lens coatings also play a vital role in improving lens brightness.) If the objective 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.





EDG
THE CUTTING EDGE IN SPORT OPTICS

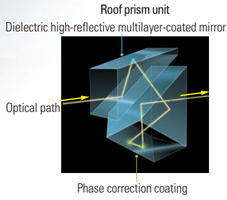
Experience the extraordinary

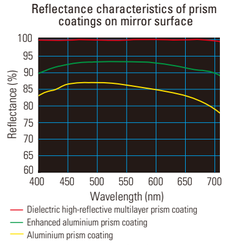
The EDG brand was born of Nikon's commitment to provide a premium lineup of the finest instruments in the field of sport optics. In combination with Nikon's many leading-edge technologies, including both optical and mechanical, these exceptional products are able to deliver a spectacular field of view,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

EDG 8×32/10×32
EDG 7×42/8×42/10×42

EDG 10×42

- **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.





(For reference example only)

- **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 8×32

EDG 8×42

* For specifications, see p 45.

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 8×30/10×30/8×42/10×42

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 8×30

MONARCH HG 8×42

MONARCH 7

MONARCH 7 8×30/10×30/8×42/10×42

*Except 8×42 model

Exquisite optical performance in a compact body delivering a wide field of view

- Sophisticatedly compact, exterior design
- Extra-low dispersion (ED) glass for chromatic aberration compensation and clearer viewing
- Wide apparent field of view
- Dielectric high-reflective multilayer prism coating ensures superior transmittance uni-formity across the visible range resulting in brighter images and more natural colours
- All lenses and prisms are multilayer-coated for bright images
- Scratch-resistant coating is applied to the outside surfaces of objective and eyepiece lenses (8×42, 10×42 only)
- 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 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

MONARCH 7 10×30

MONARCH 7 8×42

MONARCH 5

MONARCH 5 8×42/10×42/12×42/8×56/16×56/20×56

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 16×56 and 20×56 models

MONARCH 5 10×42

MONARCH 5 16×56

* For specifications, see pp 45-47.

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 7s

PROSTAFF 7s 8×30/10×30/8×42/10×42

Achieving high-quality performance in a stylish body

- All lenses and prisms are multilayer-coated for bright images
- Phase-correction-coated roof prisms for high resolution
- High-reflection mirror-coated prisms for bright images
- Long eye relief design ensures a clear field of view, even for eyeglass wearers
- 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 nitrogen gas
- Rubber armouring for shock resistance and a firm, comfortable grip
- Lightweight body uses fibreglass-reinforced polycarbonate resin
- Eco-glass optics that are free of lead and arsenic are used for all lenses and prisms

PROSTAFF 7S 10×42

PROSTAFF 7S 8×30

PROSTAFF 5

PROSTAFF 5 8×42/10×42/10×50/12×50

Sleekly designed, performance-packed model

- Multilayer-coated lenses for bright images
- Long eye relief design ensures a clear field of view, even for eyeglass wearers
- 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 nitrogen gas
- Rubber armouring for shock resistance and a comfortable grip
- Lightweight body uses fibreglass-reinforced polycarbonate resin
- Eco-glass optics that are free of lead and arsenic are used for all lenses and prisms

PROSTAFF 5 8×42

PROSTAFF 5 10×50

PROSTAFF 3s

PROSTAFF 3s 8×42/10×42

*10×42 model only

Quality meets affordability in a compact and lightweight body

- Slim body with a comfortable grip
- Multilayer-coated lenses and high-reflectivity prism coating ensure images are sharp and bright
- High-reflectivity silver alloy mirror-coated prisms enhance brightness
- Rubber armouring for shock resistance and a comfortable grip
- Eco-glass optics — free of lead and arsenic — in all lenses and prisms
- Long eye relief design gives a clear field of view even when wearing glasses
- Turn-and-slide rubber eyecups for easy positioning
- Extremely compact and lightweight
- Waterproof (up to 1m/3.3 ft. for 10 minutes) and fog-free with nitrogen gas

PROSTAFF 3S 8×42

PROSTAFF 3S 10×42

* For specifications, see pp 46-47.

ACULON

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.

ACULON T02 8×21/10×21

Colourful, lightweight and compact binoculars that bring "joy of watching"

- Compact and lightweight for portability — weighing a mere 195g/6.9oz.
- 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 seven body colours: 8×21 in red, blue, green, yellow, purple and white/10×21 in black

ACULON T02 10×21 <Black>

ACULON T02 8×21 <Red>

ACULON T02 8×21 <Blue>

ACULON T02 8×21 <Green>

ACULON T02 8×21 <Yellow>

ACULON T02 8×21 <Purple>

ACULON T02 8×21 <White>

* For specifications, see p 47.

ACULON A211 7×35/8×42/10×42/7×50/10×50/12×50/16×50/8-18×42/10-22×50

*1 Except zoom models *2 16×50 model only

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 A211 16×50 and 10-22×50)

ACULON A211 10-22×50

ACULON A211 8×42

ACULON A30 8×25/10×25

*8×25 model only

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 (8×25)
- 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 8×25 <Black>

ACULON A30 10×25 <Silver>

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.

4×10DCF <White>

4×10DCF <Silver>

4×10DCF

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

4×10DCF <Black>

4×10DCF <Red>

6×15M CF/7×15M CF Black

Timeless performance and design
- Stylish metal body
- Ultra-compact and lightweight
- Close focusing distance: 2m
- Multilayer-coated lenses for bright images

6×15M CF

5×15 HG Monocular/7×15 HG Monocular

*5×15 model only

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 (5×)
- Close focusing distance: 0.6m (5×), 0.8m (7×)

7×15 HG Monocular

* For specifications, see pp 47-49.

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 8×25DCF <Charcoal Grey>

Sportstar EX 8×25DCF/10×25DCF

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 (8×), 3.5m (10×)
- 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 8×25DCF <Silver>

TRAVELITE EX 8×25CF/9×25CF/10×25CF/12×25CF

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 8×25CF

8×20HG L DCF/10×25HG L DCF

Exceptional, compact performance

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

8×20HG L DCF

10×25HG L DCF

Sportstar Zoom 8-24×25

Sleek and compact binoculars with 3× zoom capability in three colours

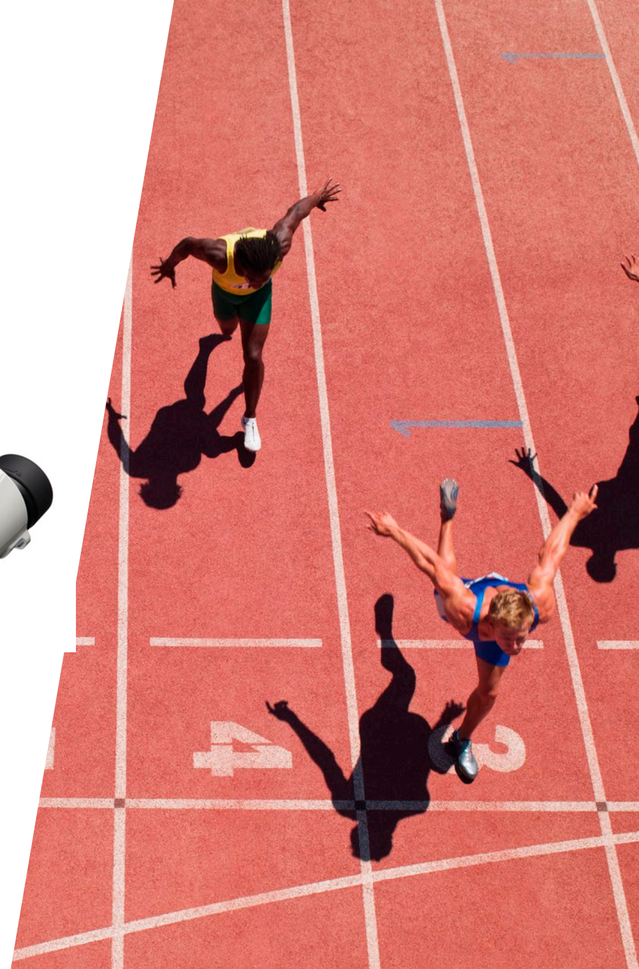
- Compact and lightweight
- Unique zoom lever designed for extra-smooth 8-24× zooming
- Turn-and-slide rubber eyecups facilitate easy positioning of eyes at the correct eyepoint
- All lenses and prisms are multilayer-coated for brighter images
- Designed for comfortable fit and easy handling
- Available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

Sportstar Zoom 8-24×25 <Dark Blue>

Sportstar Zoom 8-24×25 <White>

Sportstar Zoom 8-24×25 <Black>

* For specifications, see pp 48-49.



Marine

Nikon professional for smoother sailing

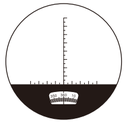
For top performance in a marine environment, Nikon binoculars are the way to go. All of the models in our Marine lineup deliver crisp, brilliant images. They're filled with nitrogen gas and sealed with O-rings to minimise the effect of temperature changes, making them ideal for rugged nautical applications.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

7×50IF HP WP Tropical

7×50CF WP/7×50CF 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 (7×50CF 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)



Compass and distance scale (for 7×50CF WP GLOBAL COMPASS)
You can measure dimensions or distances if you know one of the values.

Floating strap for 7×50CF WP/7×50CF WP GLOBAL COMPASS

7×50CF WP
GLOBAL COMPASS

7×50IF 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)

7×50IF WP

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

- 7×50IF HP WP Tropical
- 10×70IF SP WP
- 18×70IF WP WF
- 10×70IF HP WP
- 7×50IF SP WP

7×50IF 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.

7×50IF HP WP Tropical

10×70IF 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)

10×70IF HP WP

10×50CF 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)

10×50CF WP

Standard

Action EX 7×35CF/8×40CF/7×50CF/10×50CF/12×50CF/16×50CF

*7×50CF, 12×50CF 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 (7×50CF, 12×50CF only)
- Wide strap
- Can be fixed to a tripod using optional tripod adaptor (16×50CF includes tripod adaptor) (see p 51)

Action EX 8×40CF

* For specifications, see pp 49-50.

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.

8×30E II/10×35E 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 8×30E II, 62.9° for 10×35E II)
- Close focusing distance: 3m (8×), 5m (10×)
- 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)

8×30E II

7×50IF SP WP/10×70IF 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 (7×50IF SP WP: up to 5m/16.4 ft. for 5 minutes/10×70IF SP WP: 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)

7×50IF SP WP

18×70IF 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)

18×70IF 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

WX 10X50 IF

WX 7×50 IF/10×50 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 Flattener 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 prims 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 7× 50 IF
- Apparent field of view 76.4° and eye relief 15.3 mm for WX 10×50 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)

* For specifications, see p 50.

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 Fieldscope 82ED-S/82ED-A
MONARCH Fieldscope 60ED-S/60ED-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 Flattener 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 I 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-A

MONARCH Fieldscope 82ED-S

MONARCH Fieldscope 60ED-S

MONARCH Fieldscope 60ED-A

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 38× when attached to MONARCH Fieldscope 82 series
- Magnification is 30× when attached to MONARCH Fieldscope 60 series

MEP-38W
(30×/38×)

MEP-20-60

Bright optics with crisp clarity and a versatile 3× zoom

- Flexible 3× 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 20-60× when attached to MONARCH Fieldscope 82 series
- Magnification is 16-48× when attached to MONARCH Fieldscope 60 series

MEP-20-60
(16-48×/20-60×)

MEP-30-60W

Wide field of view with superior optical performance and 2× zoom

- Wide field of view
- Versatile 2× 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 30-60× when attached to MONARCH Fieldscope 82 series
- Magnification is 24-48× when attached to MONARCH Fieldscope 60 series

MEP-30-60W
(24-48×/30-60×)

* For specifications, see p 52.

PROSTAFF 5

PROSTAFF 5 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: compatible with digital camera bracket FSB-series
- Built-in sliding hood

PROSTAFF 5 Fieldscope 82

PROSTAFF 5 Fieldscope 82-A

PROSTAFF 5 Fieldscope 60

PROSTAFF 5 Fieldscope 60-A

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

SEP-25
(20×/25×)

SEP-38W
(30×/38×)

SEP-20-60
(16-48×/20-60×)

PROSTAFF 3

PROSTAFF 3 Fieldscope

Compact design and reliable performance

- Compact, lightweight and sleek design
- All lenses and prisms are multilayer-coated for bright images
- 16-48× zoom eyepiece integrated
- Long eye relief (19mm at 16×)
- 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

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 pearlscent 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

13-30×/20-45×/25-56×
MC zoom eyepiece

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

16×/24×/30×
Wide DS eyepiece

27×/40×/50×
Wide DS eyepiece

40×/60×/75×
Wide DS eyepiece

* For specifications, see pp 52-53.

GOING THE DISTANCE

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.

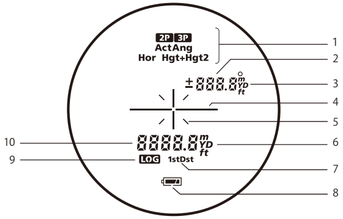
Forestry Pro II

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

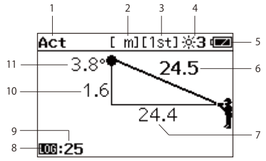
- Measurement range: 7.5-1,600m/8-1,750 yd./25-5,250 ft.
- In addition to actual distance, horizontal distance, height, angle and vertical separation (difference in height between two targets) measurement functions, three-point measurement (height between two points) is available
- The results are displayed 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 6× 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

Forestry Pro II

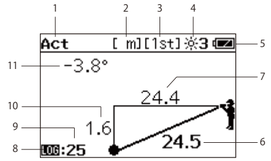
Internal display
1. Measurement display mode
2. Distance or angle (sub-indicator)
3. Unit of measure (°: angle in degrees/m: meter/YD: yard/ft: feet)
4. Target mark (— ┼ —)
5. Laser emission mark (╳)
6. Unit of measure (m: meter/YD: yard/ft: feet)
7. Target Priority mode (1st: First Target Priority mode/Dst: 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

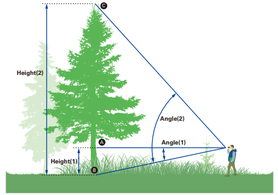


When measuring upward



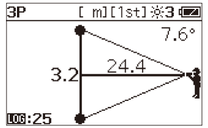
When measuring downward

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



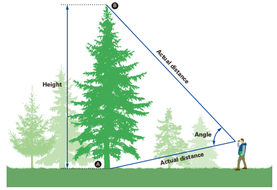
Used when the top and/or base of the targeted tree is not visible. This mode measures the horizontal distance to the tree, then measures the angles to the top and base to calculate the height between the two points.

Internal display



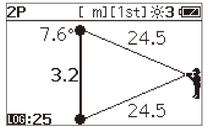
External display

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 54.

MONARCH 2000

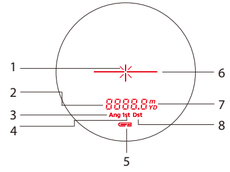
Stress-free, rapid measurement in any situation

- Measurement range: 7.3-1,820m/8-2,000 yd.*
- Red OLED 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. Display of 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 power button depressed enables continuous measurement for up to approx. 8.
- Horizontal Distance display mode and Actual Distance display mode can be easily switched — ID (incline/decline) Technology
- 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 6× monocular with multilayer coating for bright, clear images
- 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

* Under Nikon's measurement conditions and reference values.

MONARCH 2000

Internal display
1. Laser irradiation mark (⤫)
2. Distance
3. Horizontal distance mode
4. First Target Priority mode
5. Battery condition
6. Target mark (—╎—)
7. Unit of measure (m/yd.)
8. Distant Target Priority mode



PROSTAFF 1000

Compact laser rangefinder with Distant Target Priority mode

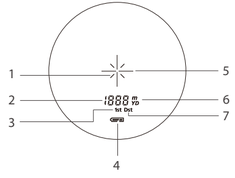
- Measurement range: 5-910m/6-1,000 yd.*
- Target Priority Switch System for measuring overlapping subjects:
  First Target Priority mode displays the distance of the closest subject — useful when measuring the distance to a subject in front of an overlapping background.
  Distant Target Priority mode 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 6× 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.

PROSTAFF 1000
(Objective side)

PROSTAFF 1000

Internal display
1. Laser irradiation mark (⤫)
2. Distance
3. First Target Priority mode
4. Battery condition
5. Target mark (—╎—)
6. Unit of measure (m/yd.)
7. Distant Target Priority mode



COOLSHOT PRO STABILIZED

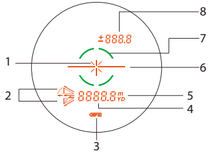
Outstanding accuracy with Locked on Technology and STABILIZED Technology

- 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 approx. 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.
- Quick and stable measurement response regardless of distance — HYPER READ. Display of measurement result in approx. 0.3 second
- Green-lit LOCKED ON Technology*2: LOCKED ON sign is lit in green and 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.
- 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
- Actual Distance Indicator is employed to indicate that the Incline/Decline measurement function (ID Technology) is not being utilised.
- 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.
- Distance measurement display step: 0.5m/yd.
- Single or continuous measurement (up to 8 seconds)
- High-quality 6× monocular with multilayer coating for bright, clear images
- Long eye relief design affords eyeglass wearers easy viewing
- Dioptre adjustment function
- Compact body design for comfortable holding
- 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 measurements: When measuring overlapping subjects and the distance to the closest subject is displayed, the LOCKED ON sign appears. Continuous measurement: When displayed figures shift to a closer subject, the LOCKED ON sign appears.

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)



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 approx. 1/5 or less (Based on Nikon's measurement standards).

LOCKED ON TECHNOLOGY

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.

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

Simulated viewfinder image when measuring to a flagstick with woods in the background.

Simulated viewfinder image when measuring to woods in the background.

* For specifications, see pp 54-55.

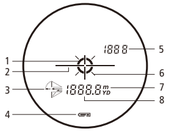
COOLSHOT 40 i GII

Simple operation and all the functions a golfer needs (ID Technology, LOCKED ON function, Golf mode, Actual Distance Indicator)

- Measurement range: 7.5-1,460m/8-1,600 yd.
- LOCKED ON Technology*: 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.
- Quick and stable measurement response regardless of distance — HYPER READ
- Displays the measurement result in approx. 0.3 second
- 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 Indicator is employed to indicate that the Incline/Decline measurement function (ID Technology) is not being utilised.
- 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 6× monocular with multilayer coating for bright, clear images
- Long eye relief design affords eyeglass wearers easy viewing
- Rainproof — JIS/IEC protection class 4 (IPX4) equivalent (under Nikon's testing conditions)

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

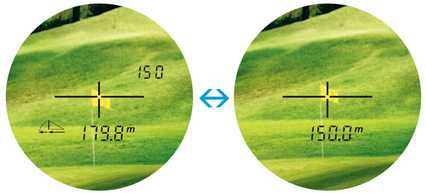
Internal display
1. LOCKED ON sign
2. Target mark (—|—)
3. Measurement display mode
4. Battery condition
5. Actual distance at Golf mode setting
6. Laser irradiation mark (✕)
7. Unit of measure (m/yd.)
8. Distance



Pressing the button switches between Golf mode and Actual distance mode.

Golf mode
Slope adjusted distance and actual distance mode

Actual distance mode

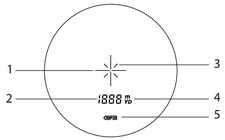


COOLSHOT 20 GII

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 6× 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

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

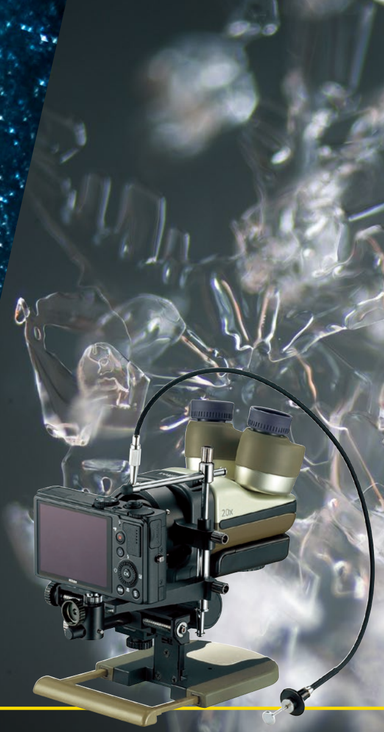


COOLSHOT 20 GII

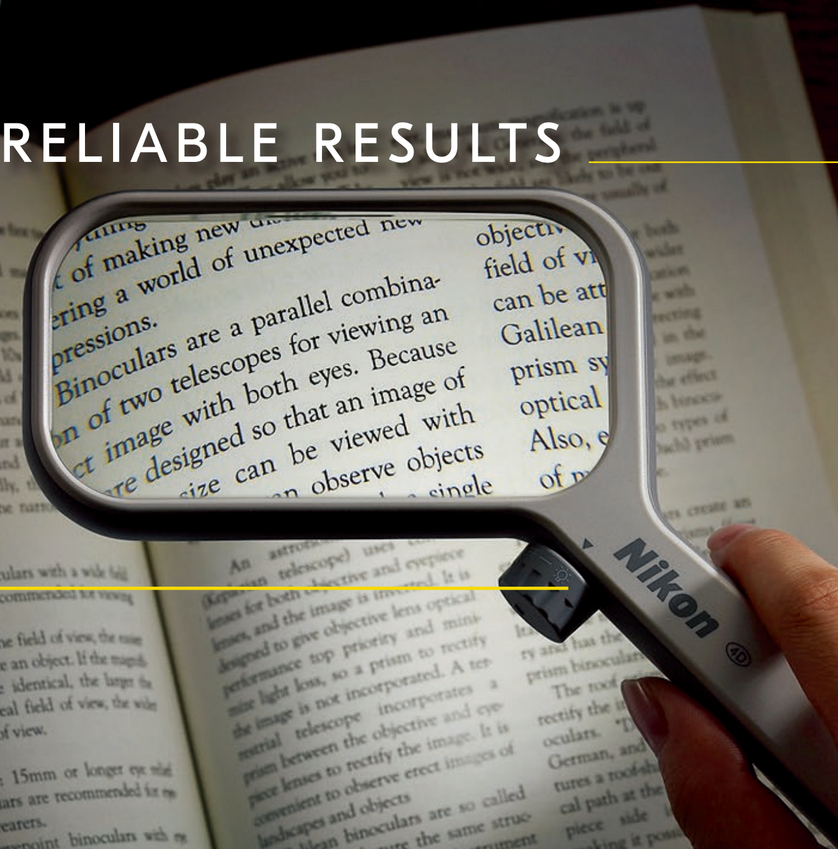
* For specifications, see p 55.

SPECIALTY OPTICS

Dedicated applications demand the expert attention that only Nikon delivers



RELIABLE RESULTS



Binocular Telescope

20×120 IV/25×120 Binocular Telescope

- Large 120mm objective diameter realises a brighter, high-resolution image
- The Binocular Telescope 20×120 IV with a superior optical system achieves a sharp image with various aberrations effectively compensated
- The Binocular Telescope 25×120 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/adapter (optional) enables stabler, easier observation

Model name	20×120 IV	25×120
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
Dioptre adjustment (m^{-1})	-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.

20×120 IV Binocular Telescope with Fork Mount.

25×120 Binocular Telescope with Fork Mount and Pillar Stand W/Adapter.

Fork Mount for 20×120 IV/25×120

- Fork mount exclusively for Binocular Telescope 20×120 IV/25×120
- Easy handling with 360° horizontal rotation and -30° (downward) to +70° (upward) tilting

Pillar Stand w/Adapter for 20×120 IV/25×120

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

Fieldmicroscopes

EZ-Micro + FSB-UC + COOLPIX Digital Camera

EZ-Micro

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

EZ-Micro

Fieldmicroscope
Fieldmicroscope Mini

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

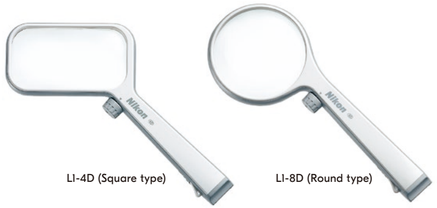
Fieldmicroscope

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. 20× (at 35mm-equivalent wide angle setting) to approx. 57× (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 × 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



L1-4D (Square type)　　L1-8D (Round type)

Reading Magnifier L1 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 L1 Series	
	L1-4D (Square type)	L1-8D (Round type)
Effective size/diameter of lens (mm)	100 × 54	80
Refractive power (dioptres)	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 × 198 × 17	230 × 91 × 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 S1 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

S1-4D
(Square type, Red)

S1-8D
(Round type, Blue)

Model name	Reading Magnifier S1 Series		
	S1-4D (Square type)	S1-8D (Round type)	S1-10D (Round type)
Colour	Red/Blue		
Effective size/diameter of lens (mm)	100 × 54	80	60
Refractive power (dioptres)	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 × 198 × 17	230 × 91 × 17	190 × 71 × 15
Weight (g)	109	108	65

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

Reading Magnifier U1-4D

- 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

U1-4D (folded)

Model name	Reading Magnifier U1-4D
Effective size of lens (mm)	100 × 54
Refractive power (dioptres)	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 × 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.

Precision Loupe (for connoisseurs)

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

Precision Loupe

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

* When the lens is retracted to its original position.

TECHNICAL DATA

Model name	EDG 8×32	EDG 10×32	EDG 7×42	EDG 8×42	EDG 10×42	MONARCH HG 8×30
Magnification (x)	8	10	7	8	10	8
Objective diameter (mm)	32	32	42	42	42	30
Angular field of view (Real/degree)	7.8	6.5	8.0	7.7	6.5	8.3
Angular field of view (Apparent/degree)	57.2	59.2	52.2	56.6	59.2	60.3
Field of view at 1,000m (m)	136	114	140	135	114	145
Exit pupil (mm)	4.0	3.2	6.0	5.3	4.2	3.8
Relative brightness	16.0	10.2	36.0	28.1	17.6	14.4
Eye relief (mm)	18.5	17.3	22.1	19.3	18.0	16.2
Close focusing distance (m)	2.5	2.5	3.0	3.0	3.0	2.0
Interpupillary distance adjustment (mm)	54-76	54-76	55-76	55-76	55-76	56-74
Weight (g)	655	650	785	785	790	450
Length (mm)	138	138	149	148	151	119
Width (mm)	139	139	141	141	141	126
Depth (mm)	50	50	54	54	54	47
Type	Roof	Roof	Roof	Roof	Roof	Roof

Note: Apparent field of view is calculated based on the ISO 14132-1:2002 standard. For details, see p 51.

	MONARCH HG			MONARCH 7		
						
Model name	MONARCH HG 10×30	MONARCH HG 8×42	MONARCH HG 10×42	MONARCH 7 8×30	MONARCH 7 10×30	MONARCH 7 8×42
Magnification (x)	10	8	10	8	10	8
Objective diameter (mm)	30	42	42	30	30	42
Angular field of view (Real/degree)	6.9	8.3	6.9	8.3	6.7	8.0
Angular field of view (Apparent/degree)	62.2	60.3	62.2	60.3	60.7	58.4
Field of view at 1,000m (m)	121	145	121	145	117	140
Exit pupil (mm)	3.0	5.3	4.2	3.8	3.0	5.3
Relative brightness	9.0	28.1	17.6	14.4	9.0	28.1
Eye relief (mm)	15.2	17.8	17.0	15.1	15.8	17.1
Close focusing distance (m)	2.0	2.0	2.0	2.0	2.0	2.5
Interpupillary distance adjustment (mm)	56-74	56-74	56-74	56-72	56-72	56-72
Weight (g)	450	665	680	435	440	650
Length (mm)	119	145	145	119	119	142
Width (mm)	126	131	131	123	123	130
Depth (mm)	47	56	56	48	48	57
Type	Roof	Roof	Roof	Roof	Roof	Roof

	MONARCH 5						
							
Model name	MONARCH 7 10×42	MONARCH 5 8×42	MONARCH 5 10×42	MONARCH 5 12×42	MONARCH 5 8×56	MONARCH 5 16×56	MONARCH 5 20×56
Magnification (x)	10	8	10	12	8	16	20
Objective diameter (mm)	42	42	42	42	56	56	56
Angular field of view (Real/degree)	6.7	6.3	5.5	5.0	6.2	4.1	3.3
Angular field of view (Apparent/degree)	60.7	47.5	51.3	55.3	46.9	59.6	59.9
Field of view at 1,000m (m)	117	110	96	87	108	72	58
Exit pupil (mm)	4.2	5.3	4.2	3.5	7.0	3.5	2.8
Relative brightness	17.6	28.1	17.6	12.3	49.0	12.3	7.8
Eye relief (mm)	16.5	19.5	18.4	15.1	20.5	16.4	16.4
Close focusing distance (m)	2.5	2.5	2.5	2.5	7.0	5.0	5.0
Interpupillary distance adjustment (mm)	56-72	56-72	56-72	56-72	60-72	60-72	60-72
Weight (g)	660	590	600	600	1,140	1,230	1,235
Length (mm)	142	145	145	145	199	199	199
Width (mm)	130	129	129	129	146	146	146
Depth (mm)	57	55	55	55	67	67	67
Type	Roof	Roof	Roof	Roof	Roof	Roof	Roof

	PROSTAFF 7S				PROSTAFF 5	
						
Model name	PROSTAFF 7S 8×30	PROSTAFF 7S 10×30	PROSTAFF 7S 8×42	PROSTAFF 7S 10×42	PROSTAFF 5 8×42	PROSTAFF 5 10×42
Magnification (x)	8	10	8	10	8	10
Objective diameter (mm)	30	30	42	42	42	42
Angular field of view (Real/degree)	6.5	6.0	6.8	6.2	6.3	5.6
Angular field of view (Apparent/degree)	48.9	55.3	50.8	56.9	47.5	52.1
Field of view at 1,000m (m)	114	105	119	108	110	98
Exit pupil (mm)	3.8	3.0	5.3	4.2	5.3	4.2
Relative brightness	14.4	9.0	28.1	17.6	28.1	17.6
Eye relief (mm)	15.4	15.4	19.5	15.5	17.5	15.2
Close focusing distance (m)	2.5	2.5	4.0	4.0	5.0	5.0
Interpupillary distance adjustment (mm)	56-72	56-72	56-72	56-72	56-72	56-72
Weight (g)	415	420	650	645	630	630
Length (mm)	119	119	167	164	165	163
Width (mm)	123	123	129	129	130	130
Depth (mm)	49	49	55	55	54	54
Type	Roof	Roof	Roof	Roof	Roof	Roof

	PROSTAFF 5		PROSTAFF 3S		ACULON T02		ACULON A211
							
Model name	PROSTAFF 5 10×50	PROSTAFF 5 12×50	PROSTAFF 3S 8×42	PROSTAFF 3S 10×42	ACULON T02 8×21	ACULON T02 10×21	ACULON A211 7×35
Magnification (x)	10	12	8	10	8	10	7
Objective diameter (mm)	50	50	42	42	21	21	35
Angular field of view (Real/degree)	5.6	4.7	7.2	7.0	6.3	5.0	9.3
Angular field of view (Apparent/degree)	52.1	52.4	53.4	62.9	47.5	47.2	59.3
Field of view at 1,000m (m)	98	82	126	122	110	87	163
Exit pupil (mm)	5.0	4.2	5.3	4.2	2.6	2.1	5.0
Relative brightness	25.0	17.6	28.1	17.6	6.8	4.4	25.0
Eye relief (mm)	19.6	15.5	20.2	15.7	10.3	8.3	11.8
Close focusing distance (m)	5.0	5.0	3.0	3.0	3.0	3.0	5.0
Interpupillary distance adjustment (mm)	56-72	56-72	56-72	56-72	56-72	56-72	56-72
Weight (g)	815	790	565	575	195	195	685
Length (mm)	187	183	152	150	87	87	118
Width (mm)	140	140	130	130	104	104	185
Depth (mm)	65	65	52	52	34	34	62
Type	Roof	Roof	Roof	Roof	Roof	Roof	Porro

* Folded

Note: Apparent field of view is calculated based on the ISO 14132-1:2002 standard. For details, see p 51.

									ACULON A30			Elegant Compact			
																
Model name	ACULON A2II 8×42	ACULON A2II 10×42	ACULON A2II 7×50	ACULON A2II 10×50	ACULON A2II 12×50	ACULON A2II 16×50	ACULON A2II 8-18×42†		ACULON A2II 10-22×50††	ACULON A30 8×25	ACULON A30 10×25	4×10DCF	6×15M CF	7×15M CF Black	5×15 HG Monocular	7×15 HG Monocular
Magnification (x)	8	10	7	10	12	16	8-18		10-22	8	10	4	6	7	5	7
Objective diameter (mm)	42	42	50	50	50	50	42		50	25	25	10	15	15	15	15
Angular field of view (Real/degree)	8.0	6.0	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
Angular field of view (Apparent/degree)	58.4	55.3	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
Field of view at 1,000m (m)	140	105	112	114	91	73	80		66	105	87	175	140	122	157	115
Exit pupil (mm)	5.3	4.2	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
Relative brightness	28.1	17.6	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
Eye relief (mm)	12.0	11.6	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
Close focusing distance (m)	5.0	5.0	8.0	7.0	8.0	9.0	13.0		15.0	3.0	3.0	1.2	2.0	2.0	0.6	0.8
Interpupillary distance adjustment (mm)	56-72	56-72	56-72	56-72	56-72	56-72	56-72		56-72	56-72	56-72	57-72	56-72	56-72	—	—
Weight (g)	755	760	905	900	910	925	825		960	275	275	65	130	135	75	75
Length (mm)	145	145	180	179	179	179	163		197	125	122	52	48	47	71	71
Width (mm)	185	185	197	197	197	197	185		197	115 (72*)	115 (72*)	93	108	108	30	30
Depth (mm)	62	62	68	68	68	68	61		68	44 (56*)	44 (56*)	19	36	36	30	30
Type	Porro	Porro	Porro	Porro	Porro	Porro	Porro		Porro	Roof	Roof	Roof	Porro	Porro	Roof	Roof

	Compact & High Grade										Marine				
																
Model name	Sportstar EX 8×25DCF	Sportstar EX 10×25DCF	TRAVELITE EX 8×25CF	TRAVELITE EX 9×25CF	TRAVELITE EX 10×25CF	TRAVELITE EX 12×25CF	8×20HG L DCF		10×25HG L DCF	Sportstar Zoom 8-24×25	7×50CF WP	7×50CF WP Global Compass	7×50IF WP	7×50IF HP WP Tropical	10×70IF HP WP	10×50CF WP
Magnification (x)	8	10	8	9	10	12	8		10	8-24	7	7	7	7	10	10
Objective diameter (mm)	25	25	25	25	25	25	20		25	25	50	50	50	50	70	50
Angular field of view (Real/degree)	8.2	6.5	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
Angular field of view (Apparent/degree)	59.7	59.2	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
Field of view at 1,000m (m)	143	114	110	98	87	73	119		94	80	126	126	131	128	89	108
Exit pupil (mm)	3.1	2.5	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
Relative brightness	9.6	6.3	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
Eye relief (mm)	10.0	10.0	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
Close focusing distance (m)	2.5	3.5	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
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	59-72	56-72	56-72	56-72
Weight (g)	300	300	355	360	365	365	270		300	305	1,115	1,130	1,115	1,360	1,985	1,070
Length (mm)	103	103	100	101	102	103	96		112	123	193	193	178	217	304	190
Width (mm)	114 (67*)	114 (67*)	116	116	116	116	109 (65*)		109 (67*)	109	202	202	203	210	234	202
Depth (mm)	43 (54*)	43 (54*)	56	56	56	56	45 (49*)		45 (49*)	51	71	81	70	80	91	71
Type	Roof	Roof	Porro	Porro	Porro	Porro	Roof		Roof	Roof	Porro	Porro	Porro	Porro	Porro	Porro

*Folded † set at 8x †† set at 10x

Note: Apparent field of view is calculated based on the ISO 14132-1:2002 standard. For details, see p 51.

Standard






Model name	Action EX 7×35CF	Action EX 8×40CF	Action EX 7×50CF	Action EX 10×50CF	Action EX 12×50CF	Action EX 16×50CF
Magnification (x)	7	8	7	10	12	16
Objective diameter (mm)	35	40	50	50	50	50
Angular field of view (Real/degree)	9.3	8.2	6.4	6.5	5.5	3.5
Angular field of view (Apparent/degree)	59.3	59.7	42.7	59.2	59.9	52.1
Field of view at 1,000m (m)	163	143	112	114	96	61
Exit pupil (mm)	5.0	5.0	7.1	5.0	4.2	3.1
Relative brightness	25.0	25.0	50.4	25.0	17.6	9.6
Eye relief (mm)	17.3	17.2	17.1	17.2	16.1	17.8
Close focusing distance (m)	5.0	5.0	7.0	7.0	7.0	7.0
Interpupillary distance adjustment (mm)	56-72	56-72	56-72	56-72	56-72	56-72
Weight (g)	800	855	1,000	1,020	1,045	1,040
Length (mm)	120	138	179	178	178	177
Width (mm)	184	187	196	196	196	196
Depth (mm)	62	63	68	68	68	68
Type	Porro	Porro	Porro	Porro	Porro	Porro

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WX







Model name	8×30E II	10×35E II	7×50IF SP WP	10×70IF SP WP	18×70IF WP WF	WX 7×50 IF	WX 10×50 IF
Magnification (x)	8	10	7	10	18	7	10
Objective diameter (mm)	30	35	50	70	70	50	50
Angular field of view (Real/degree)	8.8	7.0	7.3	5.1	4.0	10.7	9.0
Angular field of view (Apparent/degree)	63.2	62.9	48.1	48.0	64.3	66.6	76.4
Field of view at 1,000m (m)	154	122	128	89	70	188	157
Exit pupil (mm)	3.8	3.5	7.1	7.0	3.9	7.1	5.0
Relative brightness	14.4	12.3	50.4	49.0	15.2	50.4	25.0
Eye relief (mm)	13.8	13.8	16.2	16.3	15.4	17.7	15.3
Close focusing distance (m)	3.0	5.0	12.4	25.0	81.0	12.3	20.0
Interpupillary distance adjustment (mm)	56-72	56-72	56-72	56-72	56-72	58-78	58-78
Weight (g)	575	625	1,485	2,100	2,050	2,420	2,505
Length (mm)	101	126	217	304	293	272	291
Width (mm)	181	183	210	234	234	171	171
Depth (mm)	54	54	80	91	91	80	80
Type	Porro	Porro	Porro	Porro	Porro	Roof (Abbe-Koenig)	Roof (Abbe-Koenig)

Binocular Accessories Tripod/monopod adaptors

TRA-2 Usable models
- ACULON A211 series
- Action series
- Action zoom series
- Action EX series
- 7×50CF WP/ 7×50CF WP Compass/ 7×50CF WP Global Compass
- 7×50IF WP/ 7×50IF WP Compass
- 10×50CF WP

TRA-3 Usable models
- EDG 8×32/10×32/7×42/8×42/10×42
- MONARCH HG 8×42/10×42
- MONARCH 7 8×30/10×30/8×42/10×42
- MONARCH 5 8×42/10×42/12×42/8×56/16×56/20×56
- MONARCH 36/42/56 series
- PROSTAFF 7S 8×42/10×42
- PROSTAFF 7 8×42/10×42
- Action series
- Action zoom series
- Action EX series
- 7×50CF WP/7×50CF WP Compass/7×50CF WP Global Compass
- 7×50IF WP/7×50IF WP Compass
- 10×50CF WP

Tripod Adaptor TRA-5 Usable models
- WX 7×50 IF/10×50 IF
- 7×50IF SP WP/10×70IF SP WP
- 7×50IF HP WP Tropical
- 10×70IF HP WP
- 18×70IF WP WF

Usable models
- 7×50IF HP WP Tropical
- 8×32SE CF/10×42SE CF/12×50SE CF
- 18×70IF WP WF
- 7×50IF SP WP/10×70IF SP WP
- 10×70IF HP WP
- 8×30E II/10×35E II

Adaptor H (for roof prism binoculars) Usable models
- EDG 8×32/10×32/7×42/8×42/10×42
- MONARCH HG 8×42/10×42
- MONARCH 7 8×30/10×30/8×42/10×42
- MONARCH 5 8×42/10×42/12×42
- MONARCH 36/42 series
- PROSTAFF 7S 8×30/10×30/8×42/10×42
- PROSTAFF 7 8×42/10×42
- PROSTAFF 5 8×42/10×42
- PROSTAFF 3S 8×42/10×42
- 8×42HG L DCF
- 10×42HG L DCF
- 8×32HG L DCF
- 10×32HG L DCF

Hard (H) type

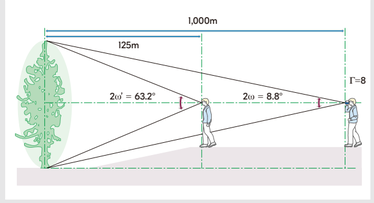
Values for Apparent Field of View

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: 2ω
Magnification: Γ

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

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



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	MONARCH Fieldscope 60ED-S	MONARCH Fieldscope 60ED-A
Objective diameter (mm)	82	82	60	60
Close focusing distance (m)	5.0	5.0	3.3	3.3
Filter-attachment size (mm)	86 (P=1.0)	86 (P=1.0)	67 (P=0.75)	67 (P=0.75)
Length x height x width (mm) (body only)*1	325 (355*2) x 124 × 103	334 (364*2) x 112 × 108	262 (285*2) x 124 × 93	270 (293*2) x 110 × 98
Weight (g) (body only)*1	1,650	1,640	1,260	1,250
Waterproof performance	Fieldscope unit: Waterproof and fog-proof (up to 1 m for 10 min., nitrogen gas purged)*3			

*1 Without caps. *2 When hood is fully extended. *3 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)*1	Field of view at 1,000m (m) (approx.)	Exit pupil (mm)	Relative brightness	Eye relief (mm)	Weight (g)*2
	MEP-38W								
	with MONARCH 60 series	30	2.5	66.4	44	2.0	4.0	18.5	270
	with MONARCH 82 series	38	2.0	66.4	35	2.2	4.8	18.5	270
	MEP-20-60								
	with MONARCH 60 series	16-48	2.6-1.2*3	40.4-54.3*3	45-21*3	3.8-1.3*3	14.4-1.7*3	16.1-15.3*3	350
	with MONARCH 82 series	20-60	2.1-1.0*3	40.4-54.3*3	37-17*3	4.1-1.4*3	16.8-2.0*3	16.1-15.3*3	350
	MEP-30-60W								
	with MONARCH 60 series	24-48	2.5-1.5*3	55.3-65.6*3	44-26*3	2.5-1.3*3	6.3-1.6*3	15.2-14.2*3	370 (with DS)*4 400 (with TS)*5
	with MONARCH 82 series	30-60	2.0-1.2*3	55.3 - 65.6*3	35-21*3	2.7-1.4*3	7.3-2.0*3	15.2-14.2*3	370 (with DS)*4 400 (with TS)*5

*1 Calculated based on the ISO14132-1:2002 standard. *2 Without caps. *3 Designed reference value at highest magnification. *4 When the DS (digiscoping) ring attachment is attached. *5 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*2	Fieldscope ED50	Fieldscope ED50 A
Objective diameter (mm)	82	82	60	60	60	50	50
Length (mm)*1	377	392	290	305	313	209	207
Width (mm)*1	95	95	85	85	74	71	71
Weight (g)*1	950	960	740	750	620	455	470

*1 Body only (except PROSTAFF 3 Fieldscope). *2 For detailed specifications, see p 53.

Eyepieces for PROSTAFF 5 Fieldscopes

	Model name	Magnification (x)	Angular field of view (Real/degree)	Angular field of view (Apparent/degree)*	Field of view at 1,000m (m) (approx.)	Exit pupil (mm)	Relative brightness	Eye relief (mm)	Weight (g)
	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 16×)	39.9 (at 16×)	45 (at 16×)	3.8 (at 16×)	14.4 (at 16×)	16.9 (at 16×)	225
	With 82/82-A	20-60	2.1 (at 20×)	39.9 (at 20×)	36 (at 20×)	4.1 (at 20×)	16.8 (at 20×)	16.9 (at 20×)	225

* Apparent field of view is calculated based on the ISO 14132-1:2002 standard. For details, see p 51.

PROSTAFF 3 Fieldscopes

Model name	Magnification (x)	Angular field of view (Real/degree)	Angular field of view (Apparent/degree)*	Field of view at 1,000m (m) (approx.)	Exit pupil (mm)	Relative brightness	Eye relief (mm)
PROSTAFF 3 Fieldscope	16-48	2.3 (at 16×)	35.6 (at 16×)	40 (at 16×)	3.8 (at 16×)	14.4 (at 16×)	19.0 (at 16×)

* Apparent field of view is calculated based on the ISO 14132-1:2002 standard. For details, see p 51.

Eyepieces for Fieldscope ED50/ED50 A

	Model name	Magnification (x)	Angular field of view (Real/degree)	Angular field of view (Apparent/degree)*3	Field of view at 1,000m (m) (approx.)	Exit pupil (mm)	Relative brightness	Eye relief (mm)	Weight (g)
	13-30×/20-45×/25-56× MC zoom*1	13-30	3.0 (at 13×)	38.5 (at 13×)	52 (at 13×)	3.8 (at 13×)	14.4 (at 13×)	12.9 (at 13×)	100
	13-40×/20-60×/25-75× MC II zoom*1*2 With ED50/ED50 A	13-40	3.0 (at 13×)	38.5 (at 13×)	52 (at 13×)	3.8 (at 13×)	14.4 (at 13×)	14.1 (at 13×)	150
	16×/24×/30× Wide DS*1*2 With ED50/ED50 A	16	4.5	64.3	79	3.1	9.6	18.7	170
	27×/40×/50× Wide DS*1*2 With ED50/ED50 A	27	2.7	64.3	47	1.9	3.6	17.8	180
	40×/60×/75× Wide DS*1*2 With ED50/ED50 A	40	1.8	64.3	31	1.3	1.7	17.0	190

*1 These eyepieces are not to be used for Fieldscope I series. *2 Turn-and-slide rubber eyecup. *3 Apparent field of view is calculated based on the ISO 14132-1:2002 standard. For details, see p 51.
Note: All eyepieces can be used for Fieldscope II series, ED78 series, III series, EDIII series and ED82 series.

							
Model name		**MONARCH 2000**	**PROSTAFF 1000**	**Forestry Pro II**	**COOLSHOT PRO STABILIZED**	**COOLSHOT 40i GII**	**COOLSHOT 20 GII**
Measurement range*		7.3-1,820m/8-2,000 yd.	5-910m/6-1,000 yd.	Distance: 7.5-1,600m/8-1,750 yd./25-5,250 ft. Angle: ±89°	7.5-1,090m/8-1,200 yd.	7.5-1,460m/8-1,600 yd.	5-730m/6-800 yd.
Distance display (Increment)		Every 0.1m/yd.	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°	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 0.5 m/yd. Slope adjusted distance (lower): Every 0.2m/yd.	Every 1m/yd.
Accuracy* (actual distance)		±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)	±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)
Finder	Magnification (x)	6	6	6	6	6	6
	Effective objective diameter (mm)	21	20	21	21	21	20
	Actual field of view (°)	7.5	6	7.5	7.5	7.5	6
	Exit pupil (mm)	3.5	3.3	3.5	3.5	3.5	3.3
	Eye relief (mm)	18.0	16.7	18.0	18.0	18.0	16.7
Dimensions (L x H x W) (mm)		96 × 74 × 42	91 × 73 × 37	110 × 74 × 42	96 × 74 × 42	96×74×41	91 × 73 × 37
Weight (excluding battery) (g)		175	130	170	170	170	130
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)		
Laser classification		IEC60825-1: Class 1M/Laser Product FDA/21 CFR Part 1040.10: Class 1 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.