SPORT OPTICS

BINOCULARS

FIELDSCOPES

LASER RANGEFINDERS

EXCEPTIONAL OPTICS
LIFE IN SHARP FOCUS
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.
WHY

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

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

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.

* Apparent field of view is calculated based on the ISO 14132-1:2002 standard. For details, see p 54.
Objective lens diameter
The objective lens diameter, combined with the quality of lens and prism coatings, determines the amount of light gathered to form an image. If you are regularly observing in poor light conditions, such as early dawn or dusk, or in forested areas, you may need a larger objective lens. But large-diameter objective lenses make binoculars heavier, so 50mm is the general limit for handheld use.

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

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

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

How to read the numerical information code for binoculars
All Nikon binoculars are designated with a numerical formula, such as “10x25 5.4°”. The value “10x” indicates the magnification of the binoculars. If a person uses 10x binoculars to observe a wild bird from a distance of 100 metres, for example, it will appear to the observer as if he or she were viewing the bird from a distance of 10 metres (100 divided by 10 equals 10) with the naked eye. The next number, “25”, tells you that the effective diameter of the objective lens is 25mm. The greater the diameter of the objective lens, the brighter your image will be with the same illumination. (Nikon’s superior lens coatings also play a vital role in improving lens brightness.) If the objective lens is too large, however, the binoculars will be heavy and may cause trembling of the hands. Finally, the number “5.4°” represents the real field of view of the binoculars. This is the angle of the visible field, as measured from the centre of the objective lenses. The bigger the value, the easier it is to locate an object. Understanding the meaning of these numbers should provide you with greater freedom in selecting and using binoculars.
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 realizes 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.

Vibration Reduction
Vibration Reduction function is incorporated to compensate vibration and provides a steady view for comfortable observation.

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

Outdoors, camping, hiking
Rugged outdoor activities demand portability and durability. Models that also feature rubber armouring and waterproofing are ideal when you’re up against the elements. For early morning and evening use, binoculars with a large objective diameter and Nikon’s multicoated lenses are recommended.

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

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

Travelling
Compact, lightweight models with mid-range magnification and field of view are ideal for travelling.

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

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

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

Maritime operations
For professional workplace usage such as sailing or marine observation. Waterproof, large-diameter binoculars are recommended.
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.
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.
• **Nikon’s legendary ED (Extra-low Dispersion) glass lenses**
  Nikon’s legendary ED (Extra-low Dispersion) glass lenses effectively compensate for chromatic aberrations to provide images of superior contrast and outstanding resolution.

• **Field-flattener lens system**
  Nikon’s field-flattener lens system technology minimises curvature of field — aberrations that occur when focusing on the centre of the field of view causing the periphery to go out of focus and vice versa — and delivers sharper, clearer images all the way to the lens periphery.

• **Dielectric high-reflective multilayer prism coating**
  Dielectric high-reflective multilayer coating is applied to a roof prism unit that does not feature total internal reflection. This boosts light reflectivity of more than 99% (designed value) for the full visible range, giving you clearer whites and a sharper, brighter, more natural vision across the entire field of view.

• **Phase correction coating**
  Phase shift of light is caused by phase differences arising from total light reflection on a roof (Dach) surface. Phase-correction coating is applied to the surface to minimise loss of resolution, ensuring high-contrast images.

• **Brighter images, even at twilight**
  Advanced multilayer coating is applied to all lenses and prisms to increase light transmission and to reduce flare and ghosting for super-bright, razor-sharp images, even at dawn and dusk.

• **Eco-glass optics, environmentally safe materials**
  All lenses and prisms are free of lead and arsenic.

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

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

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

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

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

• **Short bridge style for easy grip**

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

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

* For specifications, see p 48.
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.

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 7** 8x30/10x30/8x42/10x42

*Except 8x42 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 uniformity 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 (8x42, 10x42 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 5** 8x42/10x42/12x42/8x56/16x56/20x56

Exceptional image quality realised with ED glass and dielectric high-reflective multilayer prism coating
- Extra-low dispersion (ED) glass for chromatic aberration compensation and clearer viewing
- Dielectric high-reflective multilayer prism coating ensures superior transmittance uniformity across the visible range resulting in brighter images and more natural colours
- All lenses and prisms are multilayer-coated for bright images
- Phase-correction-coated roof prisms for high resolution
- Long eye relief design ensures a clear field of view, even for eyeglass wearers
- Eco-glass optics that are free of lead and arsenic are used for all lenses and prisms
- Waterproof (up to 1m/3.3 ft. for 10 minutes) and fog-free with nitrogen gas
- Turn-and-slide rubber eyecups with multi-click facilitate easy positioning of eyes at the correct eyepoint
- Rubber armouring for shock resistance and a firm, comfortable grip
- Lightweight body uses fibreglass-reinforced polycarbonate resin
- Soft-to-the-touch neck strap
- Flip-down objective lens cap
- Tripod adaptor is a supplied accessory for 16x56 and 20x56 models

* For specifications, see pp 48-50.
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.

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
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 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

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

* For specifications, see pp 50-51.
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.

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**ACULON T01** 8x21/10x21

**Expand your world with this stylish compact**

- Compact and lightweight for portability — weighing a mere 195g
- Multilayer-coated lenses for bright images
- Larger focusing ring for smooth operation
- Turn-and-slide rubber eyecups facilitate easy positioning of eyes at the correct eyepoint
- Single-hinged, slim and stylish design
- Available in five body colours: 8x21 in orange, blue and white/10x21 in black and red
ACULON W10  8x21/10x21

**Colourful, lightweight and compact, waterproof binoculars**

- Compact and lightweight for portability
- Multilayer-coated lenses for bright images
- Larger focusing ring for smooth operation
- Turn-and-slide rubber eyecups facilitate easy positioning of eyes at the correct eyepoint
- Firm, comfortable, rubber-coated grip
- Single-hinged, sporty design
- Waterproof (up to 1m/3.3 ft. for 10 minutes) and fog-free with nitrogen gas
- Available in five body colours: 8x21 in yellow, pink and white/10x21 in camouflage, black and white

* For specifications, see pp 50-51.
**ACULON T51**  8x24/10x24

Sophisticated elegance for wherever you go
- Slim, compact and lightweight body
- Elegant, sophisticated exterior design with metallic, smooth-to-the-touch finish
- Multilayer-coated lenses for bright images
- Close focusing distance: 2.5m
- Eco-glass optics are free of lead and arsenic
- Four alluring colour variations: 8x24 in black, silver, pink and red/10x24 in black and silver

**ACULON T11**  8-24x25

Sleek and compact binoculars with 3x zoom capability in four colours
- Compact and lightweight
- All lenses and prisms are multilayer-coated for bright images
- Unique zoom lever designed for extra-smooth 8-24x zooming
- Turn-and-slide rubber eyecups facilitate easy positioning of eyes at the correct eyepoint
- Designed for comfortable fit and easy handling
- Available in four body colours (black/red/blue/white)
**ACULON A211**  7x35/8x42/10x42/7x50/10x50/12x50/16x50/8-18x42/10-22x50

*1 Except zoom models  *2 16x50 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 54) (Tripod adaptor TRA-2 is a supplied accessory for the ACULON A211 16x50 and 10-22x50)

**ACULON A30**  8x25/10x25

*8x25 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 (8x25)
- Firm, comfortable, rubber-coated grip
- Fold-up design; easy to carry around
- Eco-glass optics that are free of lead and arsenic are used for all lenses and prisms
- Available in two body colours: black and silver

* For specifications, see pp 50-52.
Elegant Compact

Up-close at concerts, the theatre and museums

Their compact size and stylish, sophisticated design mean that these models will perfectly complement those formal occasions when you need to look your best, whether at the theatre or concert performances. The short close-focusing distance makes these binoculars a natural for use in museums, too.

4x10DCF

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

5x15 HG Monocular/7x15 HG Monocular

Perfect for viewing masterpieces in sharp detail
- Prism features high-reflection silver coating for brighter images
- Phase-correction-coated prisms for high resolution
- Multilayer-coated lenses for bright images
- Long eye relief design ensures a clear field of view, even for eyeglass wearers (5x)
- Close focusing distance: 0.6m (5x), 0.8m (7x)

6x15M CF/7x15M CF Black

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

* For specifications, see pp 52-53.
Compact & High Grade

Strong performance in sleek designs

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

**Sportstar EX** 8x25DCF/10x25DCF

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

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

- **Lightweight compact for more versatile use**
  - Waterproof (up to 2m/6.6 ft. for 5 minutes) and fog-free with nitrogen gas
  - Aspherical eyepiece lens eliminates image distortion
  - Long eye relief design ensures a clear field of view, even for eyeglass wearers
  - Close focusing distance: 2.8m
  - Multilayer-coated lenses for bright images
  - Turn-and-slide rubber eyecups facilitate easy positioning of eyes at the correct eyepoint
  - Eco-glass optics are free of lead and arsenic

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

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

*For specifications, see pp 52-53.*
**Marine**

Nikon professional for smoother sailing

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

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**7x50CF WP/7x50CF WP GLOBAL COMPASS**

*Easy focus on water or land*
- Quick, easy-to-use central focusing system
- Waterproof (up to 1m/3.3 ft. for 5 minutes) and fog-free with O-ring seals and nitrogen gas
- Built-in global compass with illuminator and scale (7x50CF WP GLOBAL COMPASS)
- Long eye relief design ensures a clear field of view, even for eyeglass wearers
- Multilayer-coated lenses for bright images
- Rubber armouring for shock resistance and a firm, comfortable grip
- Floating strap provided
- Can be fixed to a tripod using optional tripod adaptor (see p 54)

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**7x50IF WP**

*Specially designed for maritime professionals*
- Waterproof (up to 2m/6.6 ft. for 5 minutes) and fog-free with nitrogen gas
- All lenses and prisms are multilayer-coated for bright images
- Rubber armouring for shock resistance and a firm, comfortable grip
- Long eye relief design ensures a clear field of view, even for eyeglass wearers
- Can be fixed to a tripod using optional tripod adaptor (see p 54)

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**Optional accessories**

- **Polarising filter (option)**
  This filters out light reflections from water or glass.

- **Horn-shaped rubber eyecup (option)**
  Keeps light out of the eyepiece for easy viewing. Comfortable rubber cups are soft on your face, particularly good for use on bright days at sea and in other extreme conditions.

**Usable models**
- 7x50IF HP WP Tropical
- 18x70IF WP WF
- 7x50IF SP WP
- 10x70IF SP WP
- 10x70IF HP WP

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**Compass and distance scale**

(for 7x50CF WP GLOBAL COMPASS)

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

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

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**7x50CF WP GLOBAL COMPASS**

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**7x50IF WP**

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

- Waterproof (up to 5m/16.4 ft. for 5 minutes) and fog-free with nitrogen gas
- Horizontal and vertical scales for measuring dimensions or distances (scale type)
- 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 54)
- Polarising filter and horn-shaped rubber eyecup are available (options)

10x70IF HP WP

- Extra magnification for maritime professionals
- Waterproof (up to 2m/6.6 ft. for 5 minutes) and fog-free with nitrogen gas
- Large 70mm objective diameter meets demand for exceptionally bright, high magnification
- Long eye relief design ensures a clear field of view, even for eyeglass wearers
- Can be fixed to a tripod using optional tripod adaptor (see p 54)
- Polarising filter and horn-shaped rubber eyecup are available (options)

10x50CF WP

- Waterproof durability, even in harsh conditions
- Waterproof (up to 1m/3.3 ft. for 5 minutes) and fog-free with nitrogen gas
- Multilayer-coated large 50mm objective lens for bright images
- Long eye relief design ensures a clear field of view, even for eyeglass wearers
- Rubber armouring for shock resistance and a firm, comfortable grip
- Wide strap
- Can be fixed to a tripod using optional tripod adaptor (see p 54)

Standard

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

- A comfortable viewing in the most challenging conditions
- Waterproof (up to 1m/3.3 ft. for 5 minutes) and fog-free with nitrogen gas
- Long eye relief design ensures a clear field of view, even for eyeglass wearers
- Turn-and-slide rubber eyecups with multi-click
- Multilayer-coated lenses and large objective diameter for optimal image clarity
- Rubber armouring for shock resistance and a firm, comfortable grip
- Eco-glass optics are free of lead and arsenic
- Aspherical eyepiece lens eliminates image distortion (7x50CF, 12x50CF only)
- Wide strap
- Can be fixed to a tripod using optional tripod adaptor (16x50CF includes tripod adaptor) (see p 54)

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

* For specifications, see pp 52-53.
The Standard for Advanced Nature Observation

Studying nature at its finest

High-performance binoculars widely acknowledged as the standard for specialised activities such as birdwatching and nature observation, providing optical clarity and sharpness. And in models designed for stargazing, you’ll enjoy sharp, edge-to-edge resolution that exceeds your expectations.

8x30E II/10x35E II

The birdwatching standard, offering pristine panoramic views and easy locating of subjects
- Optics employ Eco-glass containing no arsenic or lead
- Wide apparent field of view (63.2° for 8x30E II, 62.9° for 10x35E II)
- Close focusing distance: 3m (8x), 5m (10x)
- Lightweight, die-cast magnesium-alloy body
- All lenses and prisms are multilayer-coated for bright images
- Can be fixed to a tripod using optional tripod adaptor (see p 54)

7x50IF SP WP/10x70IF SP WP

Edge-to-edge sharpness for seafarers, stargazing
- Superior optical design for aberration-free observation, built especially for astronomical use
- Multilayer-coated lenses for bright images
- Waterproof up to 5m/16.4 ft. (2m/6.6 ft. for 10x70IF SP WP) for 5 minutes and fog-free with O-ring seals and nitrogen gas
- Long eye relief design ensures a clear field of view, even for eyeglass wearers
- Can be fixed to a tripod using optional tripod adaptor (see p 54)
- Polarising filter and horn-shaped rubber eyecup are available (options, see p 22)

18x70IF WP WF

Extra magnification for seafarers, stargazing
- Wide 64.3° apparent angular field of view
- All lenses are multilayer-coated for bright images
- Waterproof (up to 2m/6.6 ft. for 5 minutes) and fog-free with O-ring seals and nitrogen gas
- Long eye relief design ensures a clear field of view, even for eyeglass wearers
- Can be fixed to a tripod using optional tripod adaptor (see p 54)
- Polarising filter and horn-shaped rubber eyecup are available (options, see p 22)

* For specifications, see p 54.
Journey deep into the starry sky

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

WX 7x50 IF/10x50 IF

- Unprecedented optical performance with stunning sharpness across a super-wide field of view, with no sense of frame to limit your vision
- The Field 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 7x50 IF
- Apparent field of view 76.4° and eye relief 15.3 mm for WX 10x50 IF
- Designed for comfortable viewing over long periods of observation, with a sturdy yet lightweight magnesium alloy body
- Turn-and-slide rubber eyecups, with six clicks for easy positioning

* For specifications, see p 54.
SPOTTING EVERY DETAIL
Nikon offers a broad selection of the finest Fieldscopes and interchangeable eyepieces, all delivering peerless magnification through brilliant optics while featuring rugged construction. What’s more, by attaching Nikon digital cameras to our Fieldscopes, you can capture and enjoy great close-up photos without having to carry along heavy telephoto lenses.
Nikon EDG Fieldscopes deliver a spectacular field of view

In the pursuit of innovation, Nikon’s cutting-edge technology has enabled the incorporation of a lens-shift type VR (Vibration Reduction) system into fieldscopes for the first time in the world* — EDG VR Fieldscopes. Sophisticated optical technologies complement superb mechanical functions in EDG Fieldscopes, all were created to attain clear-cut superiority for both observation and digiscoping applications. Following a comprehensive series of CAE (Computer Aided Engineering) simulations and data analyses, our EDG design engineers built numerous prototypes. These efforts realised a tough, finely balanced structure; a large-diameter objective lens that delivers brighter images; a large focusing ring for smooth operation even during digiscoping; and a tripod mount that features finely tuned weight balance adjustments. The result is exquisite, clear viewing to the very edge of your field of view.

*As of October, 2011.
Eyepieces for EDG Fieldscopes

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

Experience comfortable viewing with Nikon’s premium EDG brand Fieldscopes

(EDG VR Fieldscopes only)
- The world’s first Fieldscopes featuring Nikon’s lens-shift type VR (Vibration Reduction) system (as of October, 2011)
- Reduces vibrations to approx. 1/8 during observation, providing the equivalent of a shutter speed approx. 2 stops faster in digiscoping
- Easy VR operation; after turning the VR lock knob, pressing the VR button once activates the function
- VR function turns off automatically after approx. 30 minutes of turning VR on (Auto power off function)
- Readily available AA-size batteries are used

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

* For specifications, see p 55.
MONARCH
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 1 Bayonet Mount with lock for easy attachment and detachment.
- Aluminium alloy body employed for high durability
- Waterproof and fog-free with nitrogen gas*
- Built-in sliding hood blocks harmful light to the optical system and protects the objective lens
- Objective lens with thread for filter attachment (82mm-diameter models: 86mm (P=1.0), 60mm-diameter models: 67mm (P=0.75))
- Knurling pattern on the focusing ring for excellent operability

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

Eyepieces MEP series for MONARCH Fieldscopes

MEP-38W
Optimum image quality with an outstandingly wide field of view

- Effectively corrects curvature of field and astigmatism for uniformly high resolution all the way to the periphery
- Apparent field of view is exceptionally wide at 66.4°
- Long eye relief gives a clear field of view even when wearing glasses
- Magnification is 38x when attached to MONARCH Fieldscope 82 series
- Magnification is 30x when attached to MONARCH Fieldscope 60 series

MEP-20-60
Bright optics with crisp clarity and a versatile 3x zoom

- Flexible 3x zoom
- Effectively-corrected chromatic aberration ensures high resolution and sharpness all the way to the periphery, throughout the entire zoom range
- Turn-and-slide rubber eyecups offer easy positioning
- Long eye relief gives clear and comfortable viewing even with glasses
- Magnification is 20-60x when attached to MONARCH Fieldscope 82 series
- Magnification is 16-48x when attached to MONARCH Fieldscope 60 series

MEP-30-60W
Wide field of view with superior optical performance and 2x zoom

- Wide field of view
- Versatile 2x zoom
- Designed expressly for MONARCH Fieldscopes
- Advanced optical design optimally corrects image distortion across full zoom range
- Ultra-high optical resolving power ensures a sharp and clear view
- Long eye relief guarantees clear viewing even for eyeglass wearers
- Magnification is 30-60x when attached to MONARCH Fieldscope 82 series
- Magnification is 24-48x when attached to MONARCH Fieldscope 60 series

* For specifications, see p 56.
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

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 (20x/25x)
SEP-28W (30x/38x)
SEP-20-60 (16-48x/20-60x)
Compact design and reliable performance

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

PROSTAFF 3 Fieldscope with supplied tripod and carrying case

ED50/ED50 A

Nikon’s smallest high-end scope features brilliant optics

- Compact and lightweight with 50mm-diameter ED (Extra-low Dispersion) objective lens to minimise chromatic aberration
- Available in straight or angled design
- Multilayer-coated lenses for bright images
- Waterproof (up to 1m/3.3 ft. for 5 minutes) and fog-free with nitrogen gas
- Choose from two colours — charcoal grey and pearlescent green
- Compatible with MC eyepieces and Wide DS eyepieces (options)
- 55mm filter (P=0.75) can be attached to objective lens

Fieldscope ED50 A (Charcoal grey)  Fieldscope ED50 (Pearlescent green)  Hand-holding case for Fieldscope ED50 series (option)

Eyepieces for Fieldscopes

<table>
<thead>
<tr>
<th>13-30x/20-45x/25-56x</th>
<th>13-40x/20-60x/25-75x</th>
<th>16x/24x/30x</th>
</tr>
</thead>
<tbody>
<tr>
<td>MC zoom eyepiece</td>
<td>MC II zoom eyepiece</td>
<td>Wide DS eyepiece</td>
</tr>
<tr>
<td>27x/40x/50x</td>
<td>27x/40x/50x</td>
<td>Wide DS eyepiece</td>
</tr>
<tr>
<td>40x/60x/75x</td>
<td>40x/60x/75x</td>
<td>Wide DS eyepiece</td>
</tr>
</tbody>
</table>

* For specifications, see pp 56-57.
Nikon Digiscoping System

This convenient system makes it possible to record images viewed through a Fieldscope. Connecting a Fieldscope using an attachment or bracket for a Nikon digital SLR camera, an Advanced Camera with Interchangeable Lenses Nikon 1 series or a Nikon COOLPIX series camera, makes it easy for the user to capture super-telephoto images. Now, thanks to the unrivalled combination of Nikon cameras and Nikon scopes, you’ll achieve striking images in a way that no other system can offer.

with Digital SLR Cameras

- EDG Fieldscopes
  - 85 VR/85-A VR
  - 85/85-A/65/65-A

- Fieldscope Digital SLR Camera Attachment
  - FSA-L2

- Digital SLR Cameras

with Advanced Camera with Interchangeable Lenses Nikon 1 Series

- EDG Fieldscopes
  - 85 VR/85-A VR
  - 85/85-A/65/65-A

- MONARCH Fieldscopes
  - 82ED-S/82ED-A
  - 60ED-S/60ED-A

- Wide DS Fieldscope Eyepieces
  - 16x/24x/30x Wide DS
  - 27x/40x/50x Wide DS
  - 40x/60x/75x Wide DS
  - *2 DSB-N1 only

- EDG Fieldscope Eyepieces
  - FEP series
    - FEP-20W/25LER*/30W/38W/50W/75W*1
    - *1 DSB-N1 only

- MONARCH Fieldscope Eyepieces
  - MEP series
    - MEP-38W/MEP-20-60/MEP-30-60W

- Digiscoping Bracket DSB-N1

- 1 NIKKOR Lenses
  - (Some models are not compatible)

  - Vignetting may occur even with compatible models, depending on the subject and other shooting conditions.
  - For more information and details of compatible models, see www.nikon.com/sportoptics
  - The above charts are as of December 2017.
Fieldscopes Digital SLR Camera Attachment FSA-L2
(exclusively for EDG Fieldscope)
- 3.5x zoom for super telephoto shooting. When attached to EDG Fieldscope 85 VR/85-A VR/85/85-A, the focal length ranges from 500 to 1,750mm* and when attached to EDG Fieldscope 65/65-A, the focal length ranges from 400 to 1,400mm*.
- FX format
- Available exposure metering: Centre-weighted metering
- Multilayer coating is applied to all lens elements for brighter optics

Digiscoping Adapter DSA-N1
(exclusively for Nikon 1 series)
- Attaches to a Nikon Fieldscope easily, since optical axis adjustment is not required
- Allows use of the camera’s A: Aperture-priority auto and M: Manual exposure modes
- Easy-to-carry compact size

MONARCH Fieldscopes
82ED-S/82ED-A
60ED-S/60ED-A

PROSTAFF 5 Fieldscopes
82/82-A/60/60-A

EDG Fieldscopes
85 VR/85-A VR
85/85-A/65/65-A

EDG Fieldscope Eyepieces FEP series
FEP-20W/25LER/30W/38W/50W/75W

MONARCH Fieldscope Eyepieces MEP series
MEP-38W/MEP-20-60/MEP-30-60W

PROSTAFF Fieldscope Eyepieces SEP series
SEP-25/SEP-38W/SEP-20-60

Wide DS Fieldscope Eyepieces
16x/24x/30x Wide DS
27x/40x/50x Wide DS
40x/60x/75x Wide DS

Digiscoping Bracket DSB-N1
(exclusively for Nikon 1 series)
- Includes a cable release (approx. 50cm) to prevent camera shake during shooting
- Includes a light-shielding rubber sheet to prevent external light from entering

Digital Camera Bracket FSB-UC
(universal type for COOLPIX series)
- The new design allows the replacement of batteries and recording media while the camera is attached to a Fieldscope, or Fieldmicroscope (this is not possible with some COOLPIX models)
- Includes a light-shielding rubber sheet that minimises harmful, incoming rays and glare
- Includes cable release (approx. 50cm) to prevent camera shake during shooting

FSA-L2

FSB-UC

COOLPIX Digital Camera Brackets FSB series

COOLPIX Digital Cameras
(Some models are not compatible)

PROSTAFF Eyepieces
SEP series
SEP-25/SEP-38W/SEP-20-60

EDG Fieldscopes
85 VR/85-A VR
85/85-A/65/65-A

MONARCH Fieldscopes
82ED-S/82ED-A
60ED-S/60ED-A

PROSTAFF 5 Fieldscopes
82/82-A/60/60-A

EDG Fieldscope Eyepieces FEP series
FEP-20W/25LER/30W/38W/50W/75W

MONARCH Fieldscope Eyepieces MEP series
MEP-38W/MEP-20-60/MEP-30-60W

PROSTAFF Fieldscope Eyepieces SEP series
SEP-25/SEP-38W/SEP-20-60

Wide DS Fieldscope Eyepieces
16x/24x/30x Wide DS
27x/40x/50x Wide DS
40x/60x/75x Wide DS

Digiscoping Adapter DSA-N1
(exclusively for Nikon 1 series)
- Attaches to a Nikon Fieldscope easily, since optical axis adjustment is not required
- Allows use of the camera’s A: Aperture-priority auto and M: Manual exposure modes
- Easy-to-carry compact size

Digital Camera Bracket FSB-UC
(universal type for COOLPIX series)
- The new design allows the replacement of batteries and recording media while the camera is attached to a Fieldscope, or Fieldmicroscope (this is not possible with some COOLPIX models)
- Includes a light-shielding rubber sheet that minimises harmful, incoming rays and glare
- Includes cable release (approx. 50cm) to prevent camera shake during shooting

Digiscoping Bracket DSB-N1
(exclusively for Nikon 1 series)
- Includes a cable release (approx. 50cm) to prevent camera shake during shooting; the cable release socket is attached to the bracket
- Includes a light-shielding rubber sheet to prevent external light from entering

Vignetting may occur even with compatible models, depending on the subject and other shooting conditions.

For more information and details of compatible models, see www.nikon.com/sportoptics

The above chart is as of December 2017.
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.
Innovative distance measurement in your pocket

- Extended maximum range of 2,740m/3,000 yd.*
- STABILIZED system reduces vibrations of the image in the viewfinder caused by hand movement to give a stable view for easy targeting
- STABILIZED technology aligns irradiated laser with line of sight while it reduces vibration, improving accurate measurement to smaller subjects
- Red internal display shows OLED reading and crosshair, framing target and showing distance – easily visible in low light
- Automatic brightness function fine-tunes display brightness according to ambient light level
- ID Technology reads inclines and declines of a target, and allows simple switching between Horizontal Distance and Actual Distance
- Multilayer lens coating ensures bright and clear images
- HYPER READ delivers rapid and stable measurement response in approximately 0.3 second
- Target Priority Switch System alternates between First Target Priority for closest subject and Distant Target Priority for furthest subject, where subjects overlap
- Wide field of view of 7.5 degrees
- High-quality 6x monocular
- Compact and lightweight, weighing just 180 g (excluding battery)
- Extreme temperature tolerance of -10°C to +50°C/4˚F to 122˚F
- Waterproof and fog proof

* Reference value. Under Nikon’s measurement conditions.
  (reflective): 2,740m/3,000 yd.
  (tree): 1,000m/1,100 yd.
  (deer): 910m/1,000 yd.

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

Display mode cycle
- Horizontal distance mode
- Actual distance mode

STABILIZED TECHNOLOGY
Employing Nikon’s STABILIZED system, vibrations of the image in the viewfinder caused by hand movement are reduced*, and the irradiated laser is also aligned at the same time. Because you can direct the laser onto the target faster and more easily, the ease of measurement to a small subject is greatly improved; all achieved by Nikon’s original technologies that are a fusion of vibration reduction and high-performance measurement function.

* 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 (Based on Nikon’s measurement standards).

* For specifications, see pp 58-59.
ID Technology displays horizontal distance and actual distance — achieving long-distance measurement up to 1,200m (1,300 yd.)

- Measurement range: 7.3-1,200m/8-1,300 yd.
- 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.
- Quick and stable measurement response regardless of distance — HYPER READ
- Displays the measurement result in approx. 0.5 second
- Single or continuous measurement (up to 8 seconds)
- Compact, lightweight and ergonomic design
- High-quality 6x monocular with multilayer coating for bright, clear images
- Large ocular for easy viewing (18mm)
- Wide field of view (7.5 degrees)
- Long eye relief design affords eyeglass wearers easy viewing
- Dioptre adjustment function
- Waterproof (up to 1m/3.3 ft. for 10 minutes), but not for underwater usage; the battery chamber is water-resistant
- Wide temperature tolerance: -10°C to +50°C

Easy-to-hold, ergonomically designed body plus ID Technology

- Measurement range: 7.3-590m/8-650 yd.
- 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.
- Quick and stable measurement response regardless of distance — HYPER READ
- Displays the measurement result in approx. 0.5 second
- Distance measurement display step is 0.1m/yd.
- Single or continuous measurement (up to 8 seconds)
- Compact, lightweight and ergonomic design
- High-quality 6x monocular with multilayer coating for bright, clear images
- Large ocular for easy viewing (18mm)
- Wide field of view (7.5 degrees)
- Long eye relief design affords eyeglass wearers easy viewing
- Dioptre adjustment function
- Rainproof — JIS/IEC protection class 4 (IPX4) equivalent (under our testing conditions)
- Wide temperature tolerance: -10°C to +50°C
Compact laser rangefinder with Distant Target Priority mode

- Measurement range: 5-500m/6-550 yd.
- Distant Target Priority mode is employed.
  When measuring overlapping subjects, the distance of the farthest subject is displayed — useful in wooded areas.
- Compact, lightweight (approx. 125g) and ergonomic design
- Distance measurement display step is 1m/yd.
- High-quality 6x monocular with multilayer coating for bright, clear images
- Long eye relief design affords eyeglass wearers easy viewing
- Dioptre adjustment function
- Single or continuous measurement (up to 20 seconds)
- Rainproof — JIS/IEC protection class 4 (IPX4) equivalent (under our testing conditions)
- Wide temperature tolerance: -10°C to +50°C

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

- Measurement range: 10-500m/11-550 yd./33-999 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.
- Target Priority Switch System for measuring overlapping subjects: First Target Priority mode displays the distance of the closest subject — useful when measuring the distance to a subject in front of an overlapping background. Distant Target Priority mode displays that of the farthest subject — useful in wooded areas.
- High-quality 6x monocular with multilayer coating produces bright, clear images
- Long eye relief design affords eyeglass wearers easy viewing
- Dioptre adjustment function
- Single or continuous measurement (up to 20 seconds)
- Waterproof (up to 1 meter for 10 minutes) but not for underwater usage; the battery chamber is water resistant
- Wide temperature tolerance: -10°C to +50°C

Internal display
1. Actual Distance
2. Height
3. Height between two points
4. Distance
5. Angle
6. First Target Priority mode
7. Distant Target Priority mode
8. Battery condition
9. Three-point measurement
10. Unit of measure (m/yd.)
11. Target mark ( — —)
12. Laser irradiation mark (       )
13. Battery condition

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

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

When three-point measurement is achieved, the height between points 2 and 3 is displayed on the internal LCD with Hor Hgt+Hgt2 (solid), and Hgt(2) and Ang(2) are shown on the external LCD. Points 2 and 3 can be reversed.

* For specifications, see pp 58-59.
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 ( Lanka) 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 ( Lanka) appears. Continuous measurement: When displayed figures shift to a closer subject, the LOCKED ON sign ( Lanka) appears.

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 is much evolved and displays the 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. For example, on a golf course, it is clearly visible that the distance to the flagstick has been measured even with trees in the background.
- 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. When using actual distance mode, the indicator blinks in green while power is on. Non-use of the Incline/Decline measurement function (ID Technology) can be confirmed by observers easily. The Actual Distance Indicator can also be switched off.
- 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 6x monocular with multilayer coating for bright, clear images
- Large ocular for easy viewing (18mm)
- Wide field of view (7.5 degrees)
- Long eye relief design affords eyeglass wearers easy viewing
- Dioptre adjustment function
- Compact body design for comfortable holding
- Waterproof 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.

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

Simulated viewfinder image when measuring to woods in the background.
COOLSHOT 40i

ID Technology which displays slope adjusted distance is provided, along with superior measurement performance

- Measurement range: 7.5-590m/8-650 yd.
- Easy operation enables measurement of actual distance, horizontal distances, height and slope adjusted distance (Horizontal distance ± Height)
- Golf mode displays the slope adjusted distance (Horizontal distance ± Height) which is a guide for how far you should hit the ball and useful when golfing on an uphill/downhill course — 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 golfing for measuring the distance to a flagstick on a green with woods in the background.
  - Distant Target Priority mode displays that of the farthest subject — useful in wooded areas.
- Single or continuous measurement (up to 8 seconds)
- Quick and stable measurement response regardless of distance — HYPER READ
- Displays the measurement result in approx. 0.5 second
- Distance measurement display step is 0.5m/yd.
- Compact, lightweight and ergonomic design
- High-quality 6x monocular with multilayer coating for bright, clear images
- Large ocular for easy viewing (18mm)
- Wide field of view (7.5 degrees)
- Long eye relief design affords eyeglass wearers easy viewing
- Dioptre adjustment function
- Rainproof — JIS/IEC protection class 4 (IPX4) equivalent (under our testing conditions)
- Wide temperature tolerance: -10°C to +50°C

Internal display
1. Distance
2. Incline
3. Decline
4. First Target Priority mode
5. Distant Target Priority mode
6. Battery condition
7. Unit of measure (m/yd.)
8. Target mark ( )
9. Laser irradiation mark ( )
10. Height (Actual distance at Golf mode setting)

Display mode cycle
- Actual distance and height mode
- Horizontal distance and height mode
- Golf mode (Slope adjusted distance and actual distance mode)

Golf mode
Provides the “Horizontal distance ± Height” speedily enabling you to confidently determine how to approach the course. Once your sense of distance is enhanced, you can more easily achieve the correct shot.

The upper figure shows the “slope adjusted distance” and the lower figure is the “actual distance”. Both are displayed simultaneously in the internal display.

* For specifications, see pp 58-59.
COOLSHOT 40

Designed to measure actual distance with quick response and high accuracy

- Measurement range: 7.5-590m/8-650 yd.
- 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.
- A single press of the POWER button provides 8-second continuous measurement, which enables measurement even with slight hand movement
- Quick and stable measurement response regardless of distance — HYPER READ
- Displays the measurement result in approx. 0.5 second
- Distance measurement display step is 0.5m/yd.
- Compact, lightweight and ergonomic design
- High-quality 6x monocular with multilayer coating for bright, clear images
- Large ocular for easy viewing (18mm)
- Wide field of view (7.5 degrees)
- Long eye relief design affords eyeglass wearers easy viewing
- Dioptre adjustment function
- Rainproof — JIS/IEC protection class 4 (IPX4) equivalent (under our testing conditions)
- Wide temperature tolerance: -10°C to +50°C

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

COOLSHOT 20

Pocket-sized, compact model — the smallest and lightest COOLSHOT in the series

- Measurement range: 5-500m/6-550 yd.
- 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.
- A single press of the POWER button provides 8-second continuous measurement, which enables measurement even with slight hand movement
- Compact, lightweight (approx. 125g) and ergonomic design
- Distance measurement display step is 1m/yd.
- High-quality 6x monocular with multilayer coating for bright, clear images
- Long eye relief design affords eyeglass wearers easy viewing
- Dioptre adjustment function
- Rainproof — JIS/IEC protection class 4 (IPX4) equivalent (under our testing conditions)
- Wide temperature tolerance: -10°C to +50°C

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

* For specifications, see pp 58-59.
GOING THE DISTANCE
SPECIALTY OPTICS

Dedicated applications demand the expert attention that only Nikon delivers
Binocular Telescope

20x120 III Binocular Telescope

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

<table>
<thead>
<tr>
<th>Model name</th>
<th>20x120 III</th>
</tr>
</thead>
<tbody>
<tr>
<td>Magnification (x)</td>
<td>20</td>
</tr>
<tr>
<td>Objective diameter (mm)</td>
<td>120</td>
</tr>
<tr>
<td>Angular field of view (Real) (˚)</td>
<td>3.0</td>
</tr>
<tr>
<td>Angular field of view (Apparent) (˚)</td>
<td>55.3</td>
</tr>
<tr>
<td>Field of view at 1,000m (m)</td>
<td>52</td>
</tr>
<tr>
<td>Exit pupil (mm)</td>
<td>6.0</td>
</tr>
<tr>
<td>Relative brightness</td>
<td>36.0</td>
</tr>
<tr>
<td>Eye relief (mm)</td>
<td>20.8</td>
</tr>
<tr>
<td>Close focusing distance (m)</td>
<td>133.0</td>
</tr>
<tr>
<td>Interpupillary distance adjustment (mm)</td>
<td>58-74</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>15.5*</td>
</tr>
<tr>
<td>Length (mm)</td>
<td>680*</td>
</tr>
<tr>
<td>Width (mm)</td>
<td>452*</td>
</tr>
<tr>
<td>Type</td>
<td>Porro</td>
</tr>
</tbody>
</table>

* Binocular body only.

Note: Apparent field of view is calculated based on the ISO 14132-1:2002 standard. For details, see p 54.
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

<table>
<thead>
<tr>
<th>Model name</th>
<th>Reading Magnifier L1 Series</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>L1-4D (Square type)</td>
</tr>
<tr>
<td>Effective size/diameter of lens (mm)</td>
<td>100 x 54</td>
</tr>
<tr>
<td>Refractive power (dioptres)</td>
<td>4</td>
</tr>
<tr>
<td>Reference magnification (x)</td>
<td>1.5</td>
</tr>
<tr>
<td>Lens material</td>
<td>Acrylic (PMMA) lens</td>
</tr>
<tr>
<td>Lens form</td>
<td>Equiconvex aspherical lens</td>
</tr>
<tr>
<td>Surface coating</td>
<td>Hard coating</td>
</tr>
<tr>
<td>Dimensions (L x W x D) (mm)</td>
<td>160 x 198 x 17</td>
</tr>
<tr>
<td>Weight (g) (without battery)</td>
<td>115</td>
</tr>
<tr>
<td>Light source</td>
<td>White LED x1</td>
</tr>
<tr>
<td>Power</td>
<td>LR03 (AAA size) alkaline battery x 1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Model name</th>
<th>Reading Magnifier L1 Series</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>L1-8D (Round type)</td>
</tr>
<tr>
<td>Effective size/diameter of lens (mm)</td>
<td>80</td>
</tr>
<tr>
<td>Refractive power (dioptres)</td>
<td>8</td>
</tr>
<tr>
<td>Reference magnification (x)</td>
<td>2</td>
</tr>
<tr>
<td>Lens material</td>
<td>Acrylic (PMMA) lens</td>
</tr>
<tr>
<td>Lens form</td>
<td>Equiconvex aspherical lens</td>
</tr>
<tr>
<td>Surface coating</td>
<td>Hard coating</td>
</tr>
<tr>
<td>Dimensions (L x W x D) (mm)</td>
<td>230 x 91 x 17</td>
</tr>
<tr>
<td>Weight (g) (without battery)</td>
<td>114</td>
</tr>
</tbody>
</table>

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)](image)

<table>
<thead>
<tr>
<th>Model name</th>
<th>Reading Magnifier U1-4D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Effective size of lens (mm)</td>
<td>100 x 54</td>
</tr>
<tr>
<td>Refractive power (dioptres)</td>
<td>4</td>
</tr>
<tr>
<td>Reference magnification (x)</td>
<td>1.5</td>
</tr>
<tr>
<td>Lens material</td>
<td>Acrylic (PMMA) lens</td>
</tr>
<tr>
<td>Lens form</td>
<td>Equiconvex aspherical lens</td>
</tr>
<tr>
<td>Surface coating</td>
<td>Hard coating</td>
</tr>
<tr>
<td>Size (L x W x D) (mm)</td>
<td>83 x 142 (up to 242 when the handle is open) x 18</td>
</tr>
<tr>
<td>Weight (g)</td>
<td>103</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Model name</th>
<th>Precision Loupe</th>
</tr>
</thead>
<tbody>
<tr>
<td>Effective diameter (mm)</td>
<td>13</td>
</tr>
<tr>
<td>Focusing distance (mm)</td>
<td>25</td>
</tr>
<tr>
<td>Magnification (x)</td>
<td>10 (±1%)</td>
</tr>
<tr>
<td>Dimensions (L x W x H) (mm)*</td>
<td>42 x 24 x 16</td>
</tr>
<tr>
<td>Weight (g)</td>
<td>Approx. 15</td>
</tr>
</tbody>
</table>

* When the lens is retracted to its original position.
**EZ-Micro**
- Enables photography with a Nikon COOLPIX digital camera
- Stereoscopic observation at 20x magnification
- Made with environmentally friendly materials
- Built-in illumination system
- Exclusive compact design for easy operation

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

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**Fieldmicroscopes**

<table>
<thead>
<tr>
<th>Model name</th>
<th>Fieldmicroscope</th>
<th>Fieldmicroscope Mini</th>
</tr>
</thead>
<tbody>
<tr>
<td>Magnification (x)</td>
<td>20 (fixed)</td>
<td>20 (fixed)</td>
</tr>
<tr>
<td>Optical system</td>
<td>Upright, unreversed image, eyepiece dioptre adjustable for both eyes; 51 to 72mm interpupillary distance adjustment</td>
<td>Upright, unreversed image, eyepiece dioptre adjustable for right eye</td>
</tr>
<tr>
<td>Field of vision (mm)</td>
<td>11 (diameter)</td>
<td>11 (diameter)</td>
</tr>
<tr>
<td>Angle of view (°)</td>
<td>12.6</td>
<td>12.8</td>
</tr>
<tr>
<td>Vertical adjustment</td>
<td>50mm from the base of stage</td>
<td>42mm from the base of stage</td>
</tr>
<tr>
<td>Eye relief (mm)</td>
<td>11.1</td>
<td>12.8</td>
</tr>
<tr>
<td>Plate</td>
<td>Removal and reversible (top: flat; underside: built-in cup)</td>
<td>Removal and reversible (top: flat; underside: built-in cup)</td>
</tr>
<tr>
<td>Light source</td>
<td>Two white LEDs</td>
<td>Two white LEDs</td>
</tr>
<tr>
<td>Light settings</td>
<td>Three settings: off, one lamp, two lamps</td>
<td>Three settings: off, one lamp, two lamps</td>
</tr>
<tr>
<td>Power source</td>
<td>One AA-size battery; approx. 10-hour battery life</td>
<td>One AA-size battery; approx. 10-hour battery life</td>
</tr>
<tr>
<td>Dimensions (mm)</td>
<td>(In use) 184-238(H) x 94(D) x 100(W) (Folded close) 144(H)</td>
<td>(In use) 156-202(H) x 89(D) x 90(W) (Folded close) 124(H)</td>
</tr>
<tr>
<td>Weight (g)</td>
<td>Approx. 610</td>
<td>Approx. 395</td>
</tr>
<tr>
<td>Accessories (supplied)</td>
<td>Soft case; head unit cover; strap</td>
<td>Soft case; strap</td>
</tr>
<tr>
<td>Model name</td>
<td>EDG 8x32</td>
<td>EDG 10x32</td>
</tr>
<tr>
<td>------------</td>
<td>----------</td>
<td>-----------</td>
</tr>
<tr>
<td>Magnification (x)</td>
<td>8</td>
<td>10</td>
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<tr>
<td>Objective diameter (mm)</td>
<td>32</td>
<td>32</td>
</tr>
<tr>
<td>Angular field of view (Real/degree)</td>
<td>7.8</td>
<td>6.5</td>
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<tr>
<td>Angular field of view (Apparent/degree)</td>
<td>57.2</td>
<td>59.2</td>
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<tr>
<td>Field of view at 1,000m (m)</td>
<td>136</td>
<td>114</td>
</tr>
<tr>
<td>Exit pupil (mm)</td>
<td>4.0</td>
<td>3.2</td>
</tr>
<tr>
<td>Relative brightness</td>
<td>16.0</td>
<td>10.2</td>
</tr>
<tr>
<td>Eye relief (mm)</td>
<td>18.5</td>
<td>17.3</td>
</tr>
<tr>
<td>Close focusing distance (m)</td>
<td>2.5</td>
<td>2.5</td>
</tr>
<tr>
<td>Interpupillary distance adjustment (mm)</td>
<td>54-76</td>
<td>54-76</td>
</tr>
<tr>
<td>Weight (g)</td>
<td>655</td>
<td>650</td>
</tr>
<tr>
<td>Length (mm)</td>
<td>138</td>
<td>138</td>
</tr>
<tr>
<td>Width (mm)</td>
<td>139</td>
<td>139</td>
</tr>
<tr>
<td>Depth (mm)</td>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td>Type</td>
<td>Roof</td>
<td>Roof</td>
</tr>
</tbody>
</table>
### MONARCH HG

<table>
<thead>
<tr>
<th>Model name</th>
<th>MONARCH HG 10x30</th>
<th>MONARCH HG 8x42</th>
<th>MONARCH HG 10x42</th>
</tr>
</thead>
<tbody>
<tr>
<td>Magnification (x)</td>
<td>10</td>
<td>8</td>
<td>10</td>
</tr>
<tr>
<td>Objective diameter (mm)</td>
<td>30</td>
<td>42</td>
<td>42</td>
</tr>
<tr>
<td>Angular field of view (Real/degree)</td>
<td>6.9</td>
<td>8.3</td>
<td>6.9</td>
</tr>
<tr>
<td>Angular field of view (Apparent/degree)</td>
<td>62.2</td>
<td>60.3</td>
<td>62.2</td>
</tr>
<tr>
<td>Field of view at 1,000m (m)</td>
<td>121</td>
<td>145</td>
<td>121</td>
</tr>
<tr>
<td>Exit pupil (mm)</td>
<td>3.0</td>
<td>5.3</td>
<td>4.2</td>
</tr>
<tr>
<td>Relative brightness</td>
<td>9.0</td>
<td>28.1</td>
<td>17.6</td>
</tr>
<tr>
<td>Eye relief (mm)</td>
<td>15.2</td>
<td>17.8</td>
<td>17.0</td>
</tr>
<tr>
<td>Close focusing distance (m)</td>
<td>2.0</td>
<td>2.0</td>
<td>2.0</td>
</tr>
<tr>
<td>Interpupillary distance adjustment (mm)</td>
<td>56-74</td>
<td>56-74</td>
<td>56-74</td>
</tr>
<tr>
<td>Weight (g)</td>
<td>450</td>
<td>665</td>
<td>680</td>
</tr>
<tr>
<td>Length (mm)</td>
<td>119</td>
<td>145</td>
<td>145</td>
</tr>
<tr>
<td>Width (mm)</td>
<td>126</td>
<td>131</td>
<td>131</td>
</tr>
<tr>
<td>Depth (mm)</td>
<td>47</td>
<td>56</td>
<td>56</td>
</tr>
<tr>
<td>Type</td>
<td>Roof</td>
<td>Roof</td>
<td>Roof</td>
</tr>
<tr>
<td>Relative brightness</td>
<td>9.0</td>
<td>28.1</td>
<td>17.6</td>
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<tr>
<td>Eye relief (mm)</td>
<td>15.2</td>
<td>17.8</td>
<td>17.0</td>
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<tr>
<td>Close focusing distance (m)</td>
<td>2.0</td>
<td>2.0</td>
<td>2.0</td>
</tr>
<tr>
<td>Interpupillary distance adjustment (mm)</td>
<td>56-74</td>
<td>56-74</td>
<td>56-74</td>
</tr>
<tr>
<td>Weight (g)</td>
<td>450</td>
<td>665</td>
<td>680</td>
</tr>
<tr>
<td>Length (mm)</td>
<td>119</td>
<td>145</td>
<td>145</td>
</tr>
<tr>
<td>Width (mm)</td>
<td>126</td>
<td>131</td>
<td>131</td>
</tr>
<tr>
<td>Depth (mm)</td>
<td>47</td>
<td>56</td>
<td>56</td>
</tr>
<tr>
<td>Type</td>
<td>Roof</td>
<td>Roof</td>
<td>Roof</td>
</tr>
<tr>
<td>Relative brightness</td>
<td>9.0</td>
<td>28.1</td>
<td>17.6</td>
</tr>
<tr>
<td>Eye relief (mm)</td>
<td>15.2</td>
<td>17.8</td>
<td>17.0</td>
</tr>
<tr>
<td>Close focusing distance (m)</td>
<td>2.0</td>
<td>2.0</td>
<td>2.0</td>
</tr>
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Note: Apparent field of view is calculated based on the ISO 14132-1:2002 standard. For details, see p 54.
### Specifications

**ACULON W10**

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**Note:** Apparent field of view is calculated based on the ISO 14132-1:2002 standard. For details, see p 54.
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### Model name

**ACULON A211**  
10x-22x50 (set at 10x)

**ACULON A30**  
8x25

**Elegant Compact**  
4x10DCF

**6x15M CF**

**7x15M CF Black**

**5x15 HG Monocular**

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### High Grade

**Model name**

8x20HG L DCF

10x25HG L DCF

7x50CF WP

7x50CF WP Global Compass

7x50IF WP

7x50IF HP WP Tropical

10x70IF HP WP

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Note: Apparent field of view is calculated based on the ISO 14132-1:2002 standard. For details, see p.54.
## Binoculars Specifications

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<th>Angular field of view (Real/degree)</th>
<th>Angular field of view (Apparent/degree)</th>
<th>Field of view at 1,000m (m)</th>
<th>Exit pupil (mm)</th>
<th>Relative brightness</th>
<th>Eye relief (mm)</th>
<th>Close focusing distance (m)</th>
<th>Interpupillary distance adjustment (mm)</th>
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<td>200</td>
<td>56-72</td>
<td>Roof</td>
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</table>

*Folded*
### Binocular Accessories

**TRA-2 Usable models**
- ACULON A211 series
- Action series
- Action zoom series
- Action EX series
- 7x50CF WP/
- 7x50CF WP Compass/
- 7x50CF WP Global Compass
- 7x50IF WP/
- 10x50IF WP Compass
- 10x50IF WP

**TRA-3 Usable models**
- EDG 8x32/10x32/7x42/8x42/10x42
- MONARCH HG 8x30/10x30/8x42/10x42
- MONARCH 7 8x30/10x30/8x42/10x42
- MONARCH 5 8x42/10x42/12x42/18x56/20x56
- MONARCH 36/42/56 series
- PROSTAFF 7S 8x42/10x42
- PROSTAFF 7 8x42/10x42
- Action series
- Action zoom series
- Action EX series
- 7x50CF WP/7x50CF WP Compass/7x50CF WP Global Compass
- 7x50IF WP/7x50IF WP Compass
- 10x50IF WP

**Usable models**
- 7x50IF HP WP Tropical
- 8x32SE CF/10x42SE CF/12x50SE CF
- 18x70IF WP
- 7x50IF WP/10x70IF SP WP
- 10x50IF WP
- 8x38E II/10x35E II

**Adaptor H (for roof prism binoculars)**
- EDG 8x32/10x32/7x42/8x42/10x42
- MONARCH HG 8x30/10x30/8x42/10x42
- MONARCH 7 8x30/10x30/8x42/10x42
- MONARCH 5 8x42/10x42/12x42/18x56/20x56
- MONARCH 36/42/56 series
- PROSTAFF 7S 8x42/10x42
- PROSTAFF 7 8x42/10x42
- Action series
- Action zoom series
- Action EX series
- 7x50CF WP/7x50CF WP Compass/7x50CF WP Global Compass
- 7x50IF WP/7x50IF WP Compass
- 10x50IF WP

**Tripod/monopod adaptors**
- Hard (H) type

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### Values for Apparent Field of View

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

\[ \tan \omega' = \Gamma \times \tan \omega \]

**Apparent field of view:** \( 2 \omega' \)

**Real field of view:** \( 2 \omega \)

**Magnification:** \( \Gamma \)

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

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

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.
### EDG Fieldscopes

<table>
<thead>
<tr>
<th>Model name</th>
<th>EDG Fieldscope 85 VR</th>
<th>EDG Fieldscope 85-A VR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Objective diameter (mm)</td>
<td>85</td>
<td>85</td>
</tr>
<tr>
<td>Close focusing distance (m)</td>
<td>5.0</td>
<td>5.0</td>
</tr>
<tr>
<td>Length (mm)*1</td>
<td>379</td>
<td>398</td>
</tr>
<tr>
<td>Height x width (mm)*1</td>
<td>141 x 104</td>
<td>141 x 104</td>
</tr>
<tr>
<td>Weight (g)*1</td>
<td>2,400 (without batteries)</td>
<td>2,400 (without batteries)</td>
</tr>
</tbody>
</table>
| Vibration Reduction effects (at 25°C)*2 | Observation: Degree of vibration is reduced to approx. 1/8  
Digiscoping: Equivalent of a shutter speed approx. 2 stops faster |
| Power source         | AA alkaline battery x4, AA lithium battery x4 or AA Ni-MH (nickel metal hydride) battery x4 |
| Battery (life at 25°C)*3 | Approx. 17 hours (AA alkaline battery), approx. 31 hours (AA lithium battery), approx. 15 hours (AA Ni-MH (nickel metal hydride) battery) |

*1 Body only.  
*2 Based on Nikon Fieldscope measuring standard (used with tripod).  
*3 Battery life varies depending on conditions, temperature and vibration.  

### EDG VR Fieldscopes

<table>
<thead>
<tr>
<th>Model name</th>
<th>EDG Fieldscope 85 VR</th>
<th>EDG Fieldscope 85-A VR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Objective diameter (mm)</td>
<td>85</td>
<td>85</td>
</tr>
<tr>
<td>Close focusing distance (m)</td>
<td>5.0</td>
<td>5.0</td>
</tr>
<tr>
<td>Length (mm)*1</td>
<td>379</td>
<td>398</td>
</tr>
<tr>
<td>Height x width (mm)*1</td>
<td>141 x 104</td>
<td>141 x 104</td>
</tr>
<tr>
<td>Weight (g)*1</td>
<td>2,400 (without batteries)</td>
<td>2,400 (without batteries)</td>
</tr>
</tbody>
</table>
| Vibration Reduction effects (at 25°C)*2 | Observation: Degree of vibration is reduced to approx. 1/8  
Digiscoping: Equivalent of a shutter speed approx. 2 stops faster |
| Power source         | AA alkaline battery x4, AA lithium battery x4 or AA Ni-MH (nickel metal hydride) battery x4 |
| Battery (life at 25°C)*3 | Approx. 17 hours (AA alkaline battery), approx. 31 hours (AA lithium battery), approx. 15 hours (AA Ni-MH (nickel metal hydride) battery) |

*1 Body only.  
*2 Based on Nikon Fieldscope measuring standard (used with tripod).  
*3 Battery life varies depending on conditions, temperature and vibration.  

### Eyepieces for EDG Fieldscopes

<table>
<thead>
<tr>
<th>Model name</th>
<th>Magnification (x)</th>
<th>Angular field of view (Real/degree)</th>
<th>Angular field of view (Apparent/degree)*2</th>
<th>Field of view at 1,000m (m) (approx.)</th>
<th>Exit pupil (mm)</th>
<th>Relative brightness</th>
<th>Eye relief (mm)</th>
<th>Weight (g)</th>
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<tbody>
<tr>
<td>FEP-20W</td>
<td>16</td>
<td>4.1</td>
<td>60.0</td>
<td>72</td>
<td>4.1</td>
<td>16.8</td>
<td>20.1</td>
<td>240</td>
</tr>
<tr>
<td></td>
<td>20</td>
<td>3.3</td>
<td>60.0</td>
<td>58</td>
<td>4.3</td>
<td>18.5</td>
<td>20.1</td>
<td>240</td>
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<tr>
<td>FEP-30W</td>
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<td>52</td>
<td>2.7</td>
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<td>17.9</td>
<td>230</td>
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<tr>
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<td>2.4</td>
<td>64.3</td>
<td>42</td>
<td>2.8</td>
<td>7.8</td>
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<td>17.9</td>
<td>230</td>
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<tr>
<td></td>
<td>38</td>
<td>1.9</td>
<td>64.3</td>
<td>31</td>
<td>1.6</td>
<td>2.6</td>
<td>17.8</td>
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<td>230</td>
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<td>1.4</td>
<td>64.3</td>
<td>24</td>
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<td>2.9</td>
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<td>17</td>
<td>230</td>
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<td>75</td>
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<td>64.3</td>
<td>17</td>
<td>1.1</td>
<td>1.2</td>
<td>17</td>
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<td>16-48</td>
<td>2.8-1.4</td>
<td>42-60</td>
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<td>16.8-2.0</td>
<td>18.4-16.5</td>
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<td>2.2-1.1</td>
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<td>38-19</td>
<td>4.3-1.4</td>
<td>18.5-2.0</td>
<td>18.4-16.5</td>
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</table>

*1 With detachable turn-and-slide eyecup  
*2 Apparent field of view is calculated based on the ISO 14132-1:2002 standard. For details, see p 54.
# MONARCH Fieldscopes

<table>
<thead>
<tr>
<th>Specifications</th>
<th>MONARCH Fieldscope 82ED-S</th>
<th>MONARCH Fieldscope 82ED-A</th>
<th>MONARCH Fieldscope 60ED-S</th>
<th>MONARCH Fieldscope 60ED-A</th>
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<tr>
<td>Objective diameter (mm)</td>
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<td>82</td>
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<td>60</td>
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<td>Close focusing distance (m)</td>
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<td>86 (P=1.0)</td>
<td>67 (P=0.75)</td>
<td>67 (P=0.75)</td>
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<tr>
<td>Length x height x width (mm)</td>
<td>325 (365&lt;sup&gt;2&lt;/sup&gt;) x 124 x 103</td>
<td>334 (364&lt;sup&gt;2&lt;/sup&gt;) x 112 x 108</td>
<td>262 (285&lt;sup&gt;2&lt;/sup&gt;) x 124 x 93</td>
<td>270 (293&lt;sup&gt;2&lt;/sup&gt;) x 110 x 98</td>
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<td>Weight (g)</td>
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<td>1,840</td>
<td>1,280</td>
<td>1,250</td>
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*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

<table>
<thead>
<tr>
<th>Model name</th>
<th>Magnification (x)</th>
<th>Angular field of view (Real/degree)</th>
<th>Angular field of view (Apparent/degree)</th>
<th>Field of view at 1,000m (m) (approx.)</th>
<th>Exit pupil (mm)</th>
<th>Relative brightness</th>
<th>Eye relief (mm)</th>
<th>Weight (g)&lt;sup&gt;2&lt;/sup&gt;</th>
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<tr>
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<td>66.4</td>
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<td>16.5</td>
<td>270</td>
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<td>with MONARCH 82 series</td>
<td>38</td>
<td>2.0</td>
<td>66.4</td>
<td>35</td>
<td>2.2</td>
<td>4.8</td>
<td>18.5</td>
<td>270</td>
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<tr>
<td>with MONARCH 60 series</td>
<td>16-48</td>
<td>2.6-1.2&lt;sup&gt;2&lt;/sup&gt;</td>
<td>40.4-54.3&lt;sup&gt;2&lt;/sup&gt;</td>
<td>45-21&lt;sup&gt;2&lt;/sup&gt;</td>
<td>3.8-1.3&lt;sup&gt;2&lt;/sup&gt;</td>
<td>14.4-1.7&lt;sup&gt;2&lt;/sup&gt;</td>
<td>16.1-15.3&lt;sup&gt;2&lt;/sup&gt;</td>
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<td>40.4-54.3&lt;sup&gt;2&lt;/sup&gt;</td>
<td>37-17&lt;sup&gt;2&lt;/sup&gt;</td>
<td>4.1-1.4&lt;sup&gt;2&lt;/sup&gt;</td>
<td>18.8-2.0&lt;sup&gt;2&lt;/sup&gt;</td>
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<td></td>
</tr>
<tr>
<td>with MONARCH 60 series</td>
<td>24-48</td>
<td>2.5-1.5&lt;sup&gt;2&lt;/sup&gt;</td>
<td>55.3-65.6&lt;sup&gt;2&lt;/sup&gt;</td>
<td>44-26&lt;sup&gt;2&lt;/sup&gt;</td>
<td>2.5-1.3&lt;sup&gt;2&lt;/sup&gt;</td>
<td>6.3-1.6&lt;sup&gt;2&lt;/sup&gt;</td>
<td>15.2-14.2&lt;sup&gt;2&lt;/sup&gt;</td>
<td>370 (with DS)&lt;sup&gt;4&lt;/sup&gt; 400 (with TS)&lt;sup&gt;5&lt;/sup&gt;</td>
</tr>
<tr>
<td>with MONARCH 82 series</td>
<td>30-60</td>
<td>2.0-1.2&lt;sup&gt;2&lt;/sup&gt;</td>
<td>55.3 - 65.6&lt;sup&gt;2&lt;/sup&gt;</td>
<td>35-21&lt;sup&gt;2&lt;/sup&gt;</td>
<td>2.7-1.4&lt;sup&gt;2&lt;/sup&gt;</td>
<td>7.3-2.0&lt;sup&gt;2&lt;/sup&gt;</td>
<td>15.2-14.2&lt;sup&gt;2&lt;/sup&gt;</td>
<td>370 (with DS)&lt;sup&gt;4&lt;/sup&gt; 400 (with TS)&lt;sup&gt;5&lt;/sup&gt;</td>
</tr>
</tbody>
</table>

*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.

## Fieldscopes

<table>
<thead>
<tr>
<th>Model name</th>
<th>PROSTAFF 5 Fieldscope 82</th>
<th>PROSTAFF 5 Fieldscope 82-A</th>
<th>PROSTAFF 5 Fieldscope 60</th>
<th>PROSTAFF 5 Fieldscope 60-A</th>
<th>PROSTAFF 3 Fieldscope&lt;sup&gt;2&lt;/sup&gt;</th>
<th>Fieldscope ED50</th>
<th>Fieldscope ED50 A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Objective diameter (mm)</td>
<td>82</td>
<td>82</td>
<td>60</td>
<td>60</td>
<td>60</td>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td>Length (mm)&lt;sup&gt;1&lt;/sup&gt;</td>
<td>377</td>
<td>392</td>
<td>290</td>
<td>305</td>
<td>313</td>
<td>209</td>
<td>207</td>
</tr>
<tr>
<td>Weight (g)&lt;sup&gt;1&lt;/sup&gt;</td>
<td>950</td>
<td>960</td>
<td>740</td>
<td>750</td>
<td>620</td>
<td>455</td>
<td>470</td>
</tr>
</tbody>
</table>

*1 Body only (except PROSTAFF 3 Fieldscope).  *2 For detailed specifications, see p.57.
## Eyepieces for PROSTAFF 5 Fieldscopes

<table>
<thead>
<tr>
<th>Model name</th>
<th>Magnification (x)</th>
<th>Angular field of view (Real/degree)</th>
<th>Angular field of view (Apparent/degree)*</th>
<th>Field of view at 1,000m (m) (approx.)</th>
<th>Exit pupil (mm)</th>
<th>Relative brightness</th>
<th>Eye relief (mm)</th>
<th>Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEP-25</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>With 60/60-A</td>
<td>20</td>
<td>2.8</td>
<td>51.3</td>
<td>48</td>
<td>3.0</td>
<td>9.0</td>
<td>17.6</td>
<td>135</td>
</tr>
<tr>
<td>With 82/82-A</td>
<td>25</td>
<td>2.2</td>
<td>51.3</td>
<td>38</td>
<td>3.3</td>
<td>10.9</td>
<td>17.6</td>
<td>135</td>
</tr>
<tr>
<td>SEP-38W</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>With 60/60-A</td>
<td>30</td>
<td>2.3</td>
<td>62.1</td>
<td>40</td>
<td>2.0</td>
<td>4.0</td>
<td>19.0</td>
<td>185</td>
</tr>
<tr>
<td>With 82/82-A</td>
<td>38</td>
<td>1.8</td>
<td>62.1</td>
<td>31</td>
<td>2.2</td>
<td>4.8</td>
<td>19.0</td>
<td>185</td>
</tr>
<tr>
<td>SEP-20-80</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>With 60/60-A</td>
<td>16-48</td>
<td>2.1 (at 20x)</td>
<td>39.9 (at 20x)</td>
<td>38</td>
<td>4.1 (at 20x)</td>
<td>16.8</td>
<td>16.9 (at 20x)</td>
<td>225</td>
</tr>
<tr>
<td>With 82/82-A</td>
<td>20-60</td>
<td>2.1 (at 20x)</td>
<td>39.9 (at 20x)</td>
<td>36</td>
<td>4.1 (at 20x)</td>
<td>16.8</td>
<td>16.9 (at 20x)</td>
<td>225</td>
</tr>
</tbody>
</table>

* Apparent field of view is calculated based on the ISO 14132-1:2002 standard. For details, see p 54.

## PROSTAFF 3 Fieldscopes

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

* Apparent field of view is calculated based on the ISO 14132-1:2002 standard. For details, see p 54.

## Eyepieces for Fieldscope ED50/ED50 A

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

*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 54.

Note: All eyepieces can be used for Fieldscope II series, ED78 series, III series, ED82 series and ED82 series.
### Specifications

<table>
<thead>
<tr>
<th>Model name</th>
<th>MONARCH 3000 STABILIZED</th>
<th>PROSTAFF 7i</th>
<th>PROSTAFF 3i</th>
<th>ACULON</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measurement range*</td>
<td>7.3-2,740m/8-3,000 yd.</td>
<td>7.3-1,200m/8-1,300 yd.</td>
<td>7.3-580m/8-650 yd.</td>
<td>5-500m/6-550 yd.</td>
</tr>
<tr>
<td>Distance display (Increment)</td>
<td>Actual distance: every 0.1 m/yd.</td>
<td>Actual distance: every 0.1m/yd. (shorter than 1,000m/yd.) every 1m/yd. (1,000m/yd. and over)</td>
<td>Actual distance: every 0.1 m/yd.</td>
<td>Actual distance: every 1m/yd.</td>
</tr>
<tr>
<td>Accuracy* (actual distance)</td>
<td>±0.50 m/yd. (shorter than 700 m/yd.) ±1.00 m/yd. (700 m/yd. and over, shorter than 1,000 m/yd.) ±1.50 m/yd. (1,000 m/yd. and over)</td>
<td>±0.5m/yd. (shorter than 680m/yd.) ±1m/yd. (680m/yd. and over, shorter than 1,000m/yd.) ±1.5m/yd. (1,000m/yd. and over)</td>
<td>±0.5m/yd.</td>
<td>±1m/yd. (shorter than 100m/yd.) ±2m/yd. (100m/yd. and over)</td>
</tr>
<tr>
<td>Finder</td>
<td>Magnification (x) 6</td>
<td>6</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Effective objective diameter (mm) 21</td>
<td>21</td>
<td>21</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>Actual field of view (˚) 7.5</td>
<td>7.5</td>
<td>7.5</td>
<td>6.0</td>
</tr>
<tr>
<td></td>
<td>Exit pupil (mm) 3.5</td>
<td>3.5</td>
<td>3.5</td>
<td>3.3</td>
</tr>
<tr>
<td></td>
<td>Eye relief (mm) 18.0</td>
<td>18.3</td>
<td>18.3</td>
<td>16.7</td>
</tr>
<tr>
<td></td>
<td>Dimensions (L x H x W) (mm) 96 x 74 x 42</td>
<td>113 x 70 x 39</td>
<td>112 x 70 x 36</td>
<td>91 x 73 x 37</td>
</tr>
<tr>
<td></td>
<td>Weight (excluding battery) (g) 180</td>
<td>175</td>
<td>160</td>
<td>125</td>
</tr>
<tr>
<td>Power source</td>
<td>CR2 lithium battery x 1 (DC 3V)</td>
<td>Auto power shut-off (after approx. 8 sec. unoperated)</td>
<td>CR2 lithium battery x 1 (DC 3V)</td>
<td>Auto power shutoff function equipped (after 30 sec.)</td>
</tr>
<tr>
<td>Environment</td>
<td>RoHS, WEEE</td>
<td>RoHS, WEEE</td>
<td>RoHS, WEEE</td>
<td>RoHS, WEEE</td>
</tr>
</tbody>
</table>

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.
### Specifications

**Laser Rangefinders**

<table>
<thead>
<tr>
<th>Model</th>
<th>Distance range</th>
<th>Angle range</th>
<th>Measurement range</th>
<th>Distance display</th>
<th>Angle display</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Forestry Pro</strong></td>
<td>10-500m/11-550 yd./33-999 ft.</td>
<td>±89°</td>
<td>7.5-1,090m/8-1,200 yd.</td>
<td>every 0.1m/yd., 0.5m/yd., 1m/yd., 5m/yd. (shorter than 700m/yd.)</td>
<td>±0.5°/m/yd., 1°/m/yd., 2°/m/yd. (shorter than 100m/yd.)</td>
</tr>
<tr>
<td><strong>COOLSHOT PRO STABILIZED</strong></td>
<td>7.5-1,090m/8-1,200 yd.</td>
<td>±89°</td>
<td>7.5-590m/8-650 yd.</td>
<td>every 0.1m/yd., 0.5m/yd., 1m/yd., 5m/yd., 10m/yd. (shorter than 100m/yd.)</td>
<td>±0.5°/m/yd., 1°/m/yd., 2°/m/yd. (shorter than 100m/yd.)</td>
</tr>
<tr>
<td><strong>COOLSHOT 4i</strong></td>
<td>7.5-590m/8-650 yd.</td>
<td>±89°</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>COOLSHOT 40</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>COOLSHOT 20</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Internal Display
- **Act (Actual Distance):** every 0.5m/yd., 1 m/yd. (shorter than 100m/yd.)
- **Hor (Horizontal Distance) and Hgt (Height):** every 0.2m/yd., 0.5m/yd., 1m/yd. (100m/yd. and over)
- **Ang (Angle):** every 0.5°, 1° (shorter than 10°)

### External Display
- **Act (Actual Distance):** every 0.5m/yd., 1 m/yd.
- **Hor (Horizontal Distance) and Hgt (Height):** every 0.2m/yd., 0.5m/yd., 1m/yd.
- **Ang (Angle):** every 0.1°

### Accuracy
- **±1m/yd. (shorter than 300m/yd./900 ft.)
- **±0.5% (300m/yd./900 ft. and over)**

<table>
<thead>
<tr>
<th>Model</th>
<th>Distance range</th>
<th>Angle range</th>
<th>Measurement range</th>
<th>Distance display</th>
<th>Angle display</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Forestry Pro</strong></td>
<td>10-500m/11-550 yd./33-999 ft.</td>
<td>±89°</td>
<td>7.5-1,090m/8-1,200 yd.</td>
<td>every 0.1m/yd., 0.5m/yd., 1m/yd., 5m/yd., 10m/yd. (shorter than 100m/yd.)</td>
<td>±0.5°/m/yd., 1°/m/yd., 2°/m/yd. (shorter than 100m/yd.)</td>
</tr>
<tr>
<td><strong>COOLSHOT PRO STABILIZED</strong></td>
<td>7.5-1,090m/8-1,200 yd.</td>
<td>±89°</td>
<td>7.5-590m/8-650 yd.</td>
<td>every 0.1m/yd., 0.5m/yd., 1m/yd., 5m/yd., 10m/yd. (shorter than 100m/yd.)</td>
<td>±0.5°/m/yd., 1°/m/yd., 2°/m/yd. (shorter than 100m/yd.)</td>
</tr>
<tr>
<td><strong>COOLSHOT 4i</strong></td>
<td>7.5-590m/8-650 yd.</td>
<td>±89°</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>COOLSHOT 40</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>COOLSHOT 20</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Power Source
- CR2 lithium battery x 1 (DC 3V)
- Auto power shut-off function equipped (after 30 sec.)

### Laser Classification
- IEC60825-1: Class 1M Laser Product
- FDA/21 CFR Part 1040.10: Class I Laser Product

### Environmental Standards
- RoHS, WEEE

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**FCC Part15 SubPartB class B, EU EMC directive, AS/NZS, VCCI classB, CU TR 020, ICES-003**

**FCC Part15 SubPartB class B, EU: EMC directive, AS/NZS, VCCI classB, CU TR 020**

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