Nikon

2018–2019

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 NIKON?

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

Our commitment to deliver proven, superior products
Nikon has come up with a simple rule for designing and developing our sport optics products: apply the best materials, the strictest quality controls, the most environment-sustaining engineering and superior lens coating technologies to achieve the very finest optics. The benefits of this pledge have never been clearer. Maximum light transmission, superior resolution and better-defined contrast are balanced to perfection, free of aberration, in every stunning view. Because at the heart of each optical system is an invincible integrity that makes it what it is — a Nikon.

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

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BINOCULAR BASICS

Performance factors

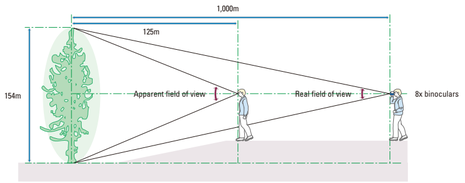
Nikon offers an extensive lineup of binoculars — including several of the world´s most popular series — for a diverse range of applications. Each model features various technical specifications that can help you in making the right selection. Magnification is usually considered most important, but field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

Magnification

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

Field of view

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



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

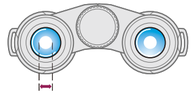
Objective lens diameter

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.

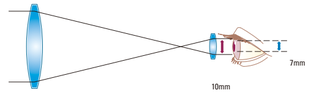
Exit pupil

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.

Diameter of exit pupil



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



Brightness

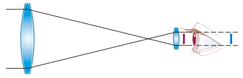
The relative brightness value is obtained by squaring the diameter of the exit pupil. The greater the relative brightness, the brighter the image will be. However, this value does not correspond exactly to increases in brightness viewed with the naked eye because light coming through the binoculars is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

In daylight

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

In darkness

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

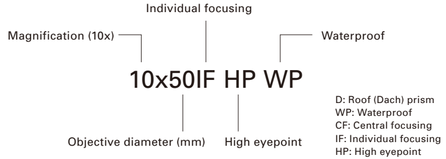


Exit pupil diameter: 7.1mm
Pupil diameter of human eye: 7mm

How to read the numerical information code for binoculars

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

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



FEATURE ICONS

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

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

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

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

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

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

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

Multilayer Coating
Multilayer coating is applied for increased light transmittance.

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

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

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

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

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

APPLICATION ICONS

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

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

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

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

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

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

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

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

BINOCULARS *UP-CLOSE AND REAL*

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

EDG
THE CUTTING EDGE IN SPORT OPTICS

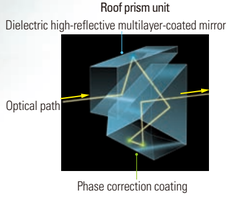
Experience the extraordinary

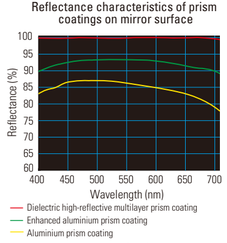
The EDG brand was born of Nikon's commitment to provide a premium lineup of the finest instruments in the field of sport optics. In combination with Nikon's many leading-edge technologies, including both optical and mechanical, these exceptional products are able to deliver a spectacular field of view,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

EDG 8x32/10x32
EDG 7x42/8x42/10x42

EDG 10x42

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





(For reference example only)

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

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

- **Turn-and-slide rubber eyecups facilitate easy positioning of eyes at the correct eyepoint**
  For non-eyeglass wearers, use the eyecups in the extended position. For eyeglass wearers, use them fully retracted. Eyecups can be adjusted to any of four click stops, offering fine adjustment that meets your needs.
- **Long eye relief design for a clear field of view, even for eyeglass wearers**
- **Horn-shaped detachable eyecups**
  Ergonomically designed horn-shaped eyecups block peripheral light to give you a clearer field of view.

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

- **Short bridge style for easy grip**
- **Durable design**
  Sturdy, lightweight die-cast magnesium alloy body.
- **Waterproof (up to 5m/16.4 ft. for 10 minutes)**
  Waterproof/fogproof construction features a nitrogen-filled body with O-ring seals.

EDG 8x32

EDG 8x42

* For specifications, see p 48.

MONARCH

A royal invitation to the magnificence of nature

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

MONARCH HG

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

Outstanding clarity with edge-to-edge sharpness and a wide field of view

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

MONARCH HG 8x30

MONARCH HG 8x42

MONARCH 7

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 7 10x30

MONARCH 7 8x42

MONARCH 5

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

MONARCH 5 10x42

MONARCH 5 16x56

* For specifications, see pp 48-50.

PROSTAFF

The world on your terms

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

PROSTAFF 7s

PROSTAFF 7s 8x30/10x30/8x42/10x42

Achieving high-quality performance in a stylish body

- All lenses and prisms are multilayer-coated for bright images
- Phase-correction-coated roof prisms for high resolution
- High-reflection mirror-coated prisms for bright images
- Long eye relief design ensures a clear field of view, even for eyeglass wearers
- Turn-and-slide rubber eyecups with multi-click facilitate easy positioning of eyes at the correct eyepoint
- Waterproof (up to 1m/3.3 ft. for 10 minutes) and fog-free with nitrogen gas
- Rubber armouring for shock resistance and a firm, comfortable grip
- Lightweight body uses fibreglass-reinforced polycarbonate resin
- Eco-glass optics that are free of lead and arsenic are used for all lenses and prisms

PROSTAFF 7S 10x42

PROSTAFF 7S 8x30

PROSTAFF 5

PROSTAFF 5 8x42/10x42/10x50/12x50

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

PROSTAFF 5 8x42

PROSTAFF 5 10x50

PROSTAFF 3s

PROSTAFF 3s 8x42/10x42

*10x42 model only

Quality meets affordability in a compact and lightweight body

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

PROSTAFF 3S 8x42

PROSTAFF 3S 10x42

* For specifications, see pp 50-51.

ACULON

Taking it all in, in your own unique style

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

ACULON T01 10x21 <Red>

ACULON T01 8x21 <Orange>

ACULON T01 8x21 <White>

ACULON T01 8x21 <Blue>

ACULON T01 10x21 <Black>

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

ACULON W10 10x21 <White>

ACULON W10 8x21 <Yellow>

ACULON W10 10x21 <Black>

ACULON W10 8x21 <Pink>

ACULON W10 10x21 <Camouflage>

* 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 T51 8x24 <Pink>

ACULON T51 8x24 <Red>

ACULON T51 10x24 <Black>

ACULON T51 10x24 <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 T11 8-24x25 <Black>

ACULON T11 8-24x25 <Blue>

ACULON T11 8-24x25 <Red>

ACULON T11 8-24x25 <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 A211 10-22x50

ACULON A211 8x42

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

ACULON A30 8x25 <Black>

ACULON A30 10x25 <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 <White>

4x10DCF <Silver>

4x10DCF

Effortless performance in a sleek design

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

4x10DCF <Black>

4x10DCF <Red>

6x15M CF/7x15M CF Black

Timeless performance and design

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

6x15M CF

5x15 HG Monocular/7x15 HG Monocular

*5x15 model only

Perfect for viewing masterpieces in sharp detail

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

7x15 HG Monocular

* 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 <Charcoal Grey>

Sportstar EX 8x25DCF/10x25DCF

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

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

Sportstar EX 8x25DCF <Silver>

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

Lightweight compact for more versatile use

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

TRAVELITE EX 8x25CF

8x20HG L DCF/10x25HG L DCF

Exceptional, compact performance

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

8x20HG L DCF

10x25HG L DCF

* For specifications, see pp 52-53.

Marine

Nikon professional for smoother sailing

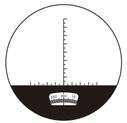
For top performance in a marine environment, Nikon binoculars are the way to go. All of the models in our Marine lineup deliver crisp, brilliant images. They're filled with nitrogen gas and sealed with O-rings to minimise the effect of temperature changes, making them ideal for rugged nautical applications.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

7x50IF HP WP Tropical

7x50CF WP/7x50CF WP GLOBAL COMPASS

Easy focus on water or land

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



Compass and distance scale (for 7x50CF WP GLOBAL COMPASS)
You can measure dimensions or distances if you know one of the values.

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

7x50CF WP
GLOBAL COMPASS

7x50IF WP

Specially designed for maritime professionals

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

7x50IF WP

Optional accessories

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

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

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

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

Trusted standard for fisheries and professional marine navigation

- Waterproof (up to 5m/16.4 ft. for 5 minutes) and fog-free with nitrogen gas
- Horizontal and vertical scales for measuring dimensions or distances (scale type)
- Long eye relief design ensures a clear field of view, even for eyeglass wearers
- Large objective diameter for bright image
- Can be fixed to a tripod using optional tripod adaptor (see p 54)
- Polarising filter and horn-shaped rubber eyecup are available (options)

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

7x50IF HP WP Tropical

10x70IF HP WP

Extra magnification for maritime professionals

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

10x70IF HP WP

10x50CF WP

Waterproof durability, even in harsh conditions

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

10x50CF WP

Standard

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

*7x50CF, 12x50CF models only

A comfortable viewing in the most challenging conditions

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

Action EX 8x40CF

* 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)

8x30E II

7x50IF SP WP/10x70IF SP WP

Edge-to-edge sharpness for seafarers, stargazing

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

7x50IF SP WP

18x70IF WP WF

Extra magnification for seafarers, stargazing

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

18x70IF WP WF

* For specifications, see p 54.

WX

Journey deep into the starry sky

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

WX 7X50 IF

WX 10X50 IF

WX 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 7x 50 IF
- Apparent field of view 76.4° and eye relief 15.3 mm for WX 10x50 IF
- Designed for comfortable viewing over long periods of observation, with a sturdy yet lightweight magnesium alloy body
- Turn-and-slide rubber eyecups, with six clicks for easy positioning

* For specifications, see p 54.

SPOTTING EVERY DETAIL

FIELDSCOPES *A WHOLE WIDE WORLD OF DISCOVERY*

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

EDG

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.

EDG Fieldscope 85-A VR

EDG Fieldscope 85 VR

EDG Fieldscope 85-A VR

EDG Fieldscope 85 VR

EDG Fieldscope 85 VR/85-A VR
EDG Fieldscope 85/85-A

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*1 during observation, providing the equivalent of a shutter speed approx. 2 stops*1 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)*2 and fog-free with nitrogen gas (the body/eyepiece joint and the body/battery holder joint are water-resistant)*3
- 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

*1 Based on Nikon Fieldscope measuring standard (used with tripod).
*2 NOT designed for underwater usage.
*3 Water resistance: As tested by water equivalent to 1mm per minute, falling from a height of more than 200mm for a duration of 10 minutes (in normal use with an eyepiece attached to the main body correctly).

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
- Compact Digital Camera COOLPIX series and Advanced Camera with Interchangeable Lenses Nikon 1 series can be attached using optional digiscoping accessories (except FEP-20-60)

* For more information about digiscoping accessories or compatible cameras, see www.nikon.com/sportoptics/

* For specifications, see p 55.

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)

MONARCH Fieldscope 82ED-A

MONARCH Fieldscope 82ED-S

MONARCH Fieldscope 60ED-S

MONARCH Fieldscope 60ED-A

Eyepieces MEP series for MONARCH Fieldscopes

MEP-38W

Optimum image quality with an outstandingly wide field of view

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

MEP-38W
(30x/38x)

MEP-20-60

Bright optics with crisp clarity and a versatile 3x zoom

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

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

MEP-30-60W

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

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

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

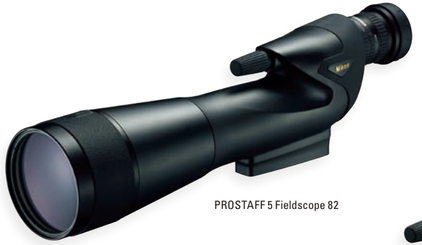
* For specifications, see p 56.

PROSTAFF 5

PROSTAFF 5 Fieldscope 82/82-A/60/60-A

Brighter viewing in a sleek design

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



PROSTAFF 5 Fieldscope 82

PROSTAFF 5 Fieldscope 82-A

PROSTAFF 5 Fieldscope 60

PROSTAFF 5 Fieldscope 60-A

Eyepieces for PROSTAFF 5 Fieldscopes

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

SEP-25 (20x/25x) | SEP-38W (30x/38x) | SEP-20-60 (16-48x/20-60x)

PROSTAFF 3

PROSTAFF 3 Fieldscope

Compact design and reliable performance

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

PROSTAFF 3 Fieldscope

PROSTAFF 3 Fieldscope with supplied tripod and carrying case

ED50/ED50 A

Fieldscope ED50/ED50 A

Nikon´s smallest high-end scope features brilliant optics

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

Fieldscope ED50 A (Charcoal grey)

Fieldscope ED50 (Pearlescent green)

Hand-holding case for Fieldscope ED50 series (option)

Eyepieces for Fieldscopes

13-30x/20-45x/25-56x MC zoom eyepiece | 13-40x/20-60x/25-75x MC II zoom eyepiece | 16x/24x/30x Wide DS eyepiece | 27x/40x/50x Wide DS eyepiece | 40x/60x/75x Wide DS eyepiece

* 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

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

Digiscoping Adapter DSA-N1

Advanced Camera with Interchangeable Lenses Nikon 1 Series
(Some models are not compatible)

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

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

Fieldscopes
ED50/ED50 A

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

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.

with Nikon COOLPIX Digital Cameras

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

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

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

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

Fieldscopes
ED50/ED50 A

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

FSB-UC

COOLPIX Digital Camera Brackets FSB series

COOLPIX Digital Cameras
(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 chart is as of December 2017.

Fieldscope 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 modes: Aperture-Priority Auto and Metered Manual
  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

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 when shooting; the cable release socket is attached to the bracket
- Includes a light-shielding rubber sheet to prevent external light from entering

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.

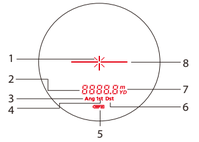
MONARCH 3000 STABILIZED

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 irradation 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

ID TECHNOLOGY

MONARCH 3000 Stabilized

Conceptual image

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.

PROSTAFF 7i

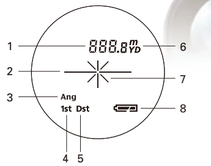
ID Technology displays horizontal distance and actual distance — achieving long-distance measurement up to 1,200m (1,300 yd.)

- 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

PROSTAFF 7i

Internal display

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



Display mode cycle

Horizontal distance mode ⇄ Actual distance mode

PROSTAFF 3i

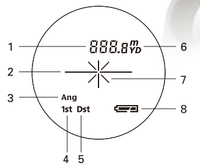
Easy-to-hold, ergonomically designed body plus ID Technology

- 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

PROSTAFF 3i

Internal display

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



Display mode cycle

Horizontal distance mode ⇄ Actual distance mode

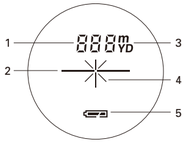
ACULON

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

Internal display

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



ACULON

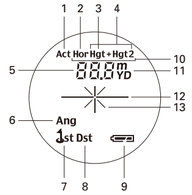
Forestry Pro

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

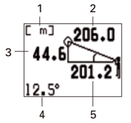
1. Actual Distance
2. Horizontal Distance
3. Height
4. Height between two points
5. Distance
6. Angle
7. First Target Priority mode
8. Distant Target Priority mode
9. Battery condition
10. Three-point measurement
11. Unit of measure (m/yd.)
    (No unit displayed for ft.)
12. Target mark (—¦—)
13. Laser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



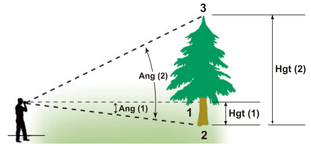
Forestry Pro

External display

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

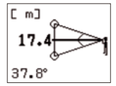


Measurement example (Three-point measurement: height between two points)



Internal display

External display



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.

COOLSHOT PRO STABILIZED

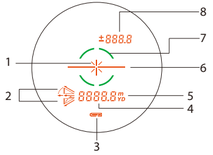
Outstanding accuracy with Locked on Technology and STABILIZED Technology

- Measurement range: 7.5-1,090m/8-1,200 yd.
- STABILIZED function is employed for facilitating measurement to a distant flagstick while reducing the vibration caused by hand movement. The effect of Vibration Reduction: Vibrations of the image in the viewfinder caused by hand movement (sinusoidal waves) are reduced to approx. 1/5 or less*1.
- Red internal OLED display enables easier viewing in any situation. Automatic brightness adjustment function finetunes the display brightness according to the surrounding ambient light level.
- Quick and stable measurement response regardless of distance — HYPER READ 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.

COOLSHOT PRO STABILIZED

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



Conceptual image

STABILIZED Technology that reduces vibration caused by hand movement by approx. 80%

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

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

LOCKED ON TECHNOLOGY

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

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

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

Simulated viewfinder image when measuring to woods in the background.

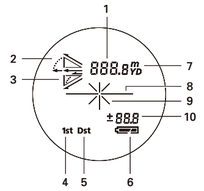
COOLSHOT 40 i

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

COOLSHOT 40i

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)



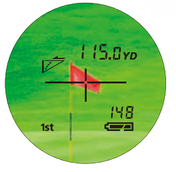
Display mode cycle

Actual distance and height mode → Horizontal distance and height mode → Golf mode (Slope adjusted distance and actual distance mode) → Actual distance mode → Actual distance and height mode

Golf mode

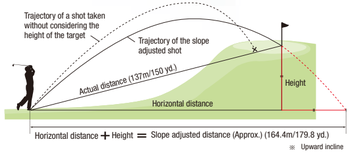
Provides the "Horizontal distance ± Height" speedily enabling you to confidently determine how to approach the course. Once your sense of distance is enhanced, you can more easily achieve the correct shot.

Incline (for uphill)



Decline (for downhill)

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

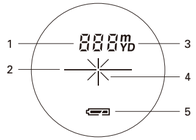
COOLSHOT 40

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



COOLSHOT 20

* For specifications, see pp 58-59.

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

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

* Binocular body only.

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

20x120 III Binocular Telescope

20x120 III with pillar stand

© Yasuteru Yamano

Loupes

L1-4D (Square type)

L1-8D (Round type)

Reading Magnifier L1 Series

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

Model name	Reading Magnifier L1 Series	
	L1-4D (Square type)	L1-8D (Round type)
Effective size/diameter of lens (mm)	100 x 54	80
Refractive power (dioptres)	4	8
Reference magnification (x)	1.5	2
Lens material	Acrylic (PMMA) lens	
Lens form	Equiconvex aspherical lens	
Surface coating	Hard coating	
Dimensions (L x W x D) (mm)	160 x 198 x 17	230 x 91 x 17
Weight (g) (without battery)	115	114
Light source	White LED x1	
Power	LR03 (AAA size) alkaline battery x 1	
Battery life (at a temperature of 25°C)*	Approx. 8 hours	

* Battery life varies depending on temperature, humidity and other conditions.

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

Reading Magnifier S1 Series

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

S1-4D (Square type, Red)

S1-8D (Round type, Blue)

Model name	Reading Magnifier S1 Series		
	S1-4D (Square type)	S1-8D (Round type)	S1-10D (Round type)
Colour	Red/Blue		
Effective size/diameter of lens (mm)	100 x 54	80	60
Refractive power (dioptres)	4	8	10
Reference magnification (x)	1.5	2	2.5
Lens material	Acrylic (PMMA) lens		
Lens form	Equiconvex aspherical lens		
Surface coating	Hard coating		
Size (L x W x D) (mm)	160 x 198 x 17	230 x 91 x 17	190 x 71 x 15
Weight (g)	109	108	65

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

Reading Magnifier U1-4D

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

U1-4D (folded)

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

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

Precision Loupe (for connoisseurs)

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

Precision Loupe

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

* When the lens is retracted to its original position.

Fieldmicroscopes

EZ-Micro + FSB-UC + COOLPIX Digital Camera

EZ-Micro

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

EZ-Micro

Fieldmicroscope
Fieldmicroscope Mini

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

Fieldmicroscope

Fieldmicroscope Mini

Model name	EZ-Micro
Magnification (x)	20 (fixed)
Optical system	Upright, unreversed image; eyepiece dioptre adjustable for both eyes; 51 to 72mm interpupillary distance adjustment
Field of vision (mm)	11 (diameter)
Angle of view (°)	12.6
Vertical adjustment	38mm from the base of stage
Photographic optical system	Collimated light beam
Photographic magnification	Varies according to the attached digital camera model [Example: at A4-size printing] Approx. 20x (at 35mm-equivalent wide angle setting) to approx. 57x (at 100mm-equivalent telephoto setting)
Eye relief (mm)	12.8
Plate	Removal and reversible (top: flat; underside: built-in cup)
Light source	Two white LEDs
Light settings	Three settings: off, one lamp, two lamps
Power source	One AA-size battery; approx. 10-hour battery life (alkaline battery at 20°C)
Dimensions (mm)	(In use) 162-202 (H) x 145 (D) x 106 (W) (Folded close) 138 (H) with lighting fitted
Weight (g)	Approx. 635 (without battery)
Filters	M37 x 0.75mm thread filters can be attached
Accessories (supplied)	Large carrying case; jointed strap

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

TECHNICAL DATA

	EDG					MONARCH HG
Model name	EDG 8x32	EDG 10x32	EDG 7x42	EDG 8x42	EDG 10x42	MONARCH HG 8×30
Magnification (x)	8	10	7	8	10	8
Objective diameter (mm)	32	32	42	42	42	30
Angular field of view (Real/degree)	7.8	6.5	8.0	7.7	6.5	8.3
Angular field of view (Apparent/degree)	57.2	59.2	52.2	56.6	59.2	60.3
Field of view at 1,000m (m)	136	114	140	135	114	145
Exit pupil (mm)	4.0	3.2	6.0	5.3	4.2	3.8
Relative brightness	16.0	10.2	36.0	28.1	17.6	14.4
Eye relief (mm)	18.5	17.3	22.1	19.3	18.0	16.2
Close focusing distance (m)	2.5	2.5	3.0	3.0	3.0	2.0
Interpupillary distance adjustment (mm)	54-76	54-76	55-76	55-76	55-76	56-74
Weight (g)	655	650	785	785	790	450
Length (mm)	138	138	149	148	151	119
Width (mm)	139	139	141	141	141	126
Depth (mm)	50	50	54	54	54	47
Type	Roof	Roof	Roof	Roof	Roof	Roof

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

	MONARCH HG		MONARCH			
Model name	MONARCH HG 10×30	MONARCH HG 8x42	MONARCH HG 10x42	MONARCH 7 8x30	MONARCH 7 10x30	MONARCH 7 8x42
Magnification (x)	10	8	10	8	10	8
Objective diameter (mm)	30	42	42	30	30	42
Angular field of view (Real/degree)	6.9	8.3	6.9	8.3	6.7	8.0
Angular field of view (Apparent/degree)	62.2	60.3	62.2	60.3	60.7	58.4
Field of view at 1,000m (m)	121	145	121	145	117	140
Exit pupil (mm)	3.0	5.3	4.2	3.8	3.0	5.3
Relative brightness	9.0	28.1	17.6	14.4	9.0	28.1
Eye relief (mm)	15.2	17.8	17.0	15.1	15.8	17.1
Close focusing distance (m)	2.0	2.0	2.0	2.0	2.0	2.5
Interpupillary distance adjustment (mm)	56-74	56-74	56-74	56-72	56-72	56-72
Weight (g)	450	665	680	435	440	650
Length (mm)	119	145	145	119	119	142
Width (mm)	126	131	131	123	123	130
Depth (mm)	47	56	56	48	48	57
Type	Roof	Roof	Roof	Roof	Roof	Roof

	MONARCH	MONARCH S				
Model name	MONARCH 7 10x42	MONARCH 5 8x42	MONARCH 5 10x42	MONARCH 5 12x42	MONARCH 5 8x56	MONARCH 5 16x56
Magnification (x)	10	8	10	12	8	16
Objective diameter (mm)	42	42	42	42	56	56
Angular field of view (Real/degree)	6.7	6.3	5.5	5.0	6.2	4.1
Angular field of view (Apparent/degree)	60.7	47.5	51.3	55.3	46.9	59.6
Field of view at 1,000m (m)	117	110	96	87	108	72
Exit pupil (mm)	4.2	5.3	4.2	3.5	7.0	3.5
Relative brightness	17.6	28.1	17.6	12.3	49.0	12.3
Eye relief (mm)	16.5	19.5	18.4	15.1	20.5	16.4
Close focusing distance (m)	2.5	2.5	2.5	2.5	7.0	5.0
Interpupillary distance adjustment (mm)	56-72	56-72	56-72	56-72	60-72	60-72
Weight (g)	660	590	600	600	1,140	1,230
Length (mm)	142	145	145	145	199	199
Width (mm)	130	129	129	129	146	146
Depth (mm)	57	55	55	55	67	67
Type	Roof	Roof	Roof	Roof	Roof	Roof

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

	MONARCH 5	PROSTAFF 7s				PROSTAFF 5				PROSTAFF 5s		ACULON T01	
Model name	MONARCH 5 20x56	PROSTAFF 7S 8x30	PROSTAFF 7S 10x30	PROSTAFF 7S 8x42	PROSTAFF 7S 10x42	PROSTAFF 5 8x42	PROSTAFF 5 10x42	PROSTAFF 5 10x50	PROSTAFF 5 12x50	PROSTAFF 3S 8x42	PROSTAFF 3S 10x42	ACULON T01 8x21	ACULON T01 10x21
Magnification (x)	20	8	10	8	10	8	10	10	12	8	10	8	10
Objective diameter (mm)	56	30	30	42	42	42	42	50	50	42	42	21	21
Angular field of view (Real/degree)	3.3	6.5	6.0	6.8	6.2	6.3	5.6	5.6	4.7	7.2	7.0	6.3	5.0
Angular field of view (Apparent/degree)	59.9	48.9	55.3	50.8	56.9	47.5	52.1	52.1	52.4	53.4	62.9	47.5	47.2
Field of view at 1,000m (m)	58	114	105	119	108	110	98	98	82	126	122	110	87
Exit pupil (mm)	2.8	3.8	3.0	5.3	4.2	5.3	4.2	5.0	4.2	5.3	4.2	2.6	2.1
Relative brightness	7.8	14.4	9.0	28.1	17.6	28.1	17.6	25.0	17.6	28.1	17.6	6.8	4.4
Eye relief (mm)	16.4	15.4	15.4	19.5	15.5	17.5	15.2	19.6	15.5	20.2	15.7	10.3	8.3
Close focusing distance (m)	5.0	2.5	2.5	4.0	4.0	5.0	5.0	5.0	5.0	3.0	3.0	3	3.0
Interpupillary distance adjustment (mm)	60-72	56-72	56-72	56-72	56-72	56-72	56-72	56-72	56-72	56-72	56-72	56-72	56-72
Weight (g)	1,235	415	420	650	645	630	630	815	790	565	575	195	195
Length (mm)	199	119	119	167	164	165	163	187	183	152	150	87	87
Width (mm)	146	123	123	129	129	130	130	140	140	130	130	104	104
Depth (mm)	67	49	49	55	55	54	54	65	65	52	52	34	34
Type	Roof	Roof	Roof	Roof	Roof	Roof	Roof	Roof	Roof	Roof	Roof	Roof	Roof

	ACULON W10		ACULON T51		ACULON T11	ACULON A211							
Model name	ACULON W10 8x21	ACULON W10 10x21	ACULON T51 8x24	ACULON T51 10x24	ACULON T11 8-24x25 (set at 8x)	ACULON A211 7x35	ACULON A211 8x42	ACULON A211 10x42	ACULON A211 7x50	ACULON A211 10x50	ACULON A211 12x50	ACULON A211 16x50	ACULON A211 8-18x42 (set at 8x)
Magnification (x)	8	10	8	10	8-24	7	8	10	7	10	12	16	8-18
Objective diameter (mm)	21	21	24	24	25	35	42	42	50	50	50	50	42
Angular field of view (Real/degree)	6.3	5.0	6.2	5.3	4.6	9.3	8.0	6.0	6.4	6.5	5.2	4.2	4.6
Angular field of view (Apparent/degree)	47.5	47.2	46.9	49.7	35.6	59.3	58.4	55.3	42.7	59.2	57.2	60.8	35.6
Field of view at 1,000m (m)	110	87	108	93	80	163	140	105	112	114	91	73	80
Exit pupil (mm)	2.6	2.1	3.0	2.4	3.1	5.0	5.3	4.2	7.1	5.0	4.2	3.1	5.3
Relative brightness	6.8	4.4	9.0	5.8	9.6	25.0	28.1	17.6	50.4	25.0	17.6	9.6	28.1
Eye relief (mm)	10.3	8.3	12.2	10.6	13.0	11.8	12.0	11.6	17.6	11.8	11.5	12.6	9.8
Close focusing distance (m)	3.0	3.0	2.5	2.5	4.0	5.0	5.0	5.0	8.0	7.0	8.0	9	13.0
Interpupillary distance adjustment (mm)	56-72	56-72	56-72	56-72	56-72	56-72	56-72	56-72	56-72	56-72	56-72	56-72	56-72
Weight (g)	215	215	200	200	305	685	755	760	905	900	910	925	825
Length (mm)	87	87	103	102	123	118	145	145	180	179	179	179	163
Width (mm)	110	110	105	105	109	185	185	185	197	197	197	197	185
Depth (mm)	34	34	29	29	51	62	62	62	68	68	68	68	61
Type	Roof	Roof	Roof	Roof	Porro	Porro	Porro	Porro	Porro	Porro	Porro	Porro	Porro

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

ACULON A211

Model name	ACULON A211 10-22x50 (set at 10x)
Magnification (x)	10-22
Objective diameter (mm)	50
Angular field of view (Real/degree)	3.8
Angular field of view (Apparent/degree)	36.7
Field of view at 1,000m (m)	66
Exit pupil (mm)	5.0
Relative brightness	25.0
Eye relief (mm)	8.6
Close focusing distance (m)	15.0
Interpupillary distance adjustment (mm)	56-72
Weight (g)	960
Length (mm)	197
Width (mm)	197
Depth (mm)	68
Type	Porro

ACULON A30

Model name	ACULON A30 8x25	ACULON A30 10x25
Magnification (x)	8	10
Objective diameter (mm)	25	25
Angular field of view (Real/degree)	6.0	5.0
Angular field of view (Apparent/degree)	45.5	47.2
Field of view at 1,000m (m)	105	87
Exit pupil (mm)	3.1	2.5
Relative brightness	9.6	6.3
Eye relief (mm)	15.0	13.0
Close focusing distance (m)	3.0	3.0
Interpupillary distance adjustment (mm)	56-72	56-72
Weight (g)	275	275
Length (mm)	125	122
Width (mm)	115 (72*)	115 (72*)
Depth (mm)	44 (56*)	44 (56*)
Type	Roof	Roof

*Folded

Elegant Compact

Model name	4x10DCF	6x15M CF	7x15M CF Black	5x15 HG Monocular
Magnification (x)	4	6	7	5
Objective diameter (mm)	10	15	15	15
Angular field of view (Real/degree)	10.0	8.0	7.0	9.0
Angular field of view (Apparent/degree)	38.6	45.5	46.4	43.0
Field of view at 1,000m (m)	175	140	122	157
Exit pupil (mm)	2.5	2.5	2.1	3.0
Relative brightness	6.3	6.3	4.4	9.0
Eye relief (mm)	13.7	10.1	10.0	15.8
Close focusing distance (m)	1.2	2.0	2.0	0.6
Interpupillary distance adjustment (mm)	57-72	56-72	56-72	—
Weight (g)	65	130	135	75
Length (mm)	52	48	47	71
Width (mm)	93	108	108	30
Depth (mm)	19	36	36	30
Type	Roof	Porro	Porro	Roof

High Grade

Model name	8x20HG L DCF	10x25HG L DCF
Magnification (x)	8	10
Objective diameter (mm)	20	25
Angular field of view (Real/degree)	6.8	5.4
Angular field of view (Apparent/degree)	50.8	50.5
Field of view at 1,000m (m)	119	94
Exit pupil (mm)	2.5	2.5
Relative brightness	6.3	6.3
Eye relief (mm)	15.0	15.0
Close focusing distance (m)	2.4	3.2
Interpupillary distance adjustment (mm)	56-72	56-72
Weight (g)	270	300
Length (mm)	96	112
Width (mm)	109 (65*)	109 (67*)
Depth (mm)	45 (49*)	45 (49*)
Type	Roof	Roof

Marine

Model name	7x50CF WP	7x50CF WP Global Compass	7x50IF WP	7x50IF HP WP Tropical	10x70IF HP WP
Magnification (x)	7	7	7	7	10
Objective diameter (mm)	50	50	50	50	70
Angular field of view (Real/degree)	7.2	7.2	7.5	7.3	5.1
Angular field of view (Apparent/degree)	47.5	47.5	49.3	48.1	48.0
Field of view at 1,000m (m)	126	126	131	128	89
Exit pupil (mm)	7.1	7.1	7.1	7.1	7.0
Relative brightness	50.4	50.4	50.4	50.4	49.0
Eye relief (mm)	22.7	22.7	15.0	15.0	15.0
Close focusing distance (m)	10.0	10.0	25.0	24.5	50.0
Interpupillary distance adjustment (mm)	56-72	56-72	59-72	56-72	56-72
Weight (g)	1,115	1,130	1,115	1,360	1,985
Length (mm)	193	193	178	217	304
Width (mm)	202	202	203	210	234
Depth (mm)	71	81	70	80	91
Type	Porro	Porro	Porro	Porro	Porro

Compact

Model name	7x15 HG Monocular	Sportstar EX 8x25DCF	Sportstar EX 10x25DCF	TRAVELITE EX 8x25CF	TRAVELITE EX 9x25CF	TRAVELITE EX 10x25CF	TRAVELITE EX 12x25CF
Magnification (x)	7	8	10	8	9	10	12
Objective diameter (mm)	15	25	25	25	25	25	25
Angular field of view (Real/degree)	6.6	8.2	6.5	6.3	5.6	5.0	4.2
Angular field of view (Apparent/degree)	44.0	59.7	59.2	47.5	47.5	47.2	47.5
Field of view at 1,000m (m)	115	143	114	110	98	87	73
Exit pupil (mm)	2.1	3.1	2.5	3.1	2.8	2.5	2.1
Relative brightness	4.4	9.6	6.3	9.6	7.8	6.3	4.4
Eye relief (mm)	12.0	10.0	10.0	15.5	15.8	15.9	15.9
Close focusing distance (m)	0.8	2.5	3.5	2.8	2.8	2.8	2.8
Interpupillary distance adjustment (mm)	—	56-72	56-72	56-72	56-72	56-72	56-72
Weight (g)	75	300	300	355	360	365	365
Length (mm)	71	103	103	100	101	102	103
Width (mm)	30	114 (67*)	114 (67*)	116	116	116	116
Depth (mm)	30	43 (54*)	43 (54*)	56	56	56	56
Type	Roof	Roof	Roof	Porro	Porro	Porro	Porro

Standard

Model name	10x50CF WP	Action EX 7x35CF	Action EX 8x40CF	Action EX 7x50CF	Action EX 10x50CF	Action EX 12x50CF	Action EX 16x50CF
Magnification (x)	10	7	8	7	10	12	16
Objective diameter (mm)	50	35	40	50	50	50	50
Angular field of view (Real/degree)	6.2	9.3	8.2	6.4	6.5	5.5	3.5
Angular field of view (Apparent/degree)	56.9	59.3	59.7	42.7	59.2	59.9	52.1
Field of view at 1,000m (m)	108	163	143	112	114	96	61
Exit pupil (mm)	5.0	5.0	5.0	7.1	5.0	4.2	3.1
Relative brightness	25.0	25.0	25.0	50.4	25.0	17.6	9.6
Eye relief (mm)	17.4	17.3	17.2	17.1	17.2	16.1	17.8
Close focusing distance (m)	17.0	5.0	5.0	7.0	7.0	7	7.0
Interpupillary distance adjustment (mm)	56-72	56-72	56-72	56-72	56-72	56-72	56-72
Weight (g)	1,070	800	855	1,000	1,020	1,045	1,040
Length (mm)	190	120	138	179	178	178	177
Width (mm)	202	184	187	196	196	196	196
Depth (mm)	71	62	63	68	68	68	68
Type	Porro	Porro	Porro	Porro	Porro	Porro	Porro

*Folded

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

The Standard for Advanced Nature Observation | **WX**

Model name	8x30E II	10x35E II	7x50IF SP WP	10x70IF SP WP	18x70IF WP WF	WX 7x50 IF	WX 10x50 IF
Magnification (x)	8	10	7	10	18	7	10
Objective diameter (mm)	30	35	50	70	70	50	50
Angular field of view (Real/degree)	8.8	7.0	7.3	5.1	4.0	10.7	9.0
Angular field of view (Apparent/degree)	63.2	62.9	48.1	48.0	64.3	66.6	76.4
Field of view at 1,000m (m)	154	122	128	89	70	188	157
Exit pupil (mm)	3.8	3.5	7.1	7.0	3.9	7.1	5.0
Relative brightness	14.4	12.3	50.4	49.0	15.2	50.4	25.0
Eye relief (mm)	13.8	13.8	16.2	16.3	15.4	17.7	15.3
Close focusing distance (m)	3.0	5.0	12.4	25.0	81.0	12.3	20.0
Interpupillary distance adjustment (mm)	56-72	56-72	56-72	56-72	56-72	58-78	58-78
Weight (g)	575	625	1,485	2,100	2,050	2,420	2,505
Length (mm)	101	126	217	304	293	272	291
Width (mm)	181	183	210	234	234	171	171
Depth (mm)	54	54	80	91	91	80	80
Type	Porro	Porro	Porro	Porro	Porro	Roof (Abbe-Koenig)	Roof (Abbe-Koenig)

Binocular Accessories Tripod/monopod adaptors

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

TRA-3 Usable models
- EDG 8x32/10x32/7x42/8x42/10x42
- MONARCH HG 8x30/10x30/8x42/10x42
- MONARCH 7 8x30/10x30/8x42/10x42
- MONARCH 5 8x42/10x42/12x42/8x56/16x56/20x56
- MONARCH 36/42/56 series
- PROSTAFF 7S 8x42/10x42
- PROSTAFF 7 8x42/10x42
- Action series
- Action zoom series
- Action EX series
- 7x50CF WP/7x50CF WP Compass/7x50CF WP Global Compass
- 7x50IF WP/7x50IF WP Compass
- 10x50CF WP

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

Adaptor H (for roof prism binoculars)Usable models
- EDG 8x32/10x32/7x42/8x42/10x42
- MONARCH HG 8x30/10x30/8x42/10x42
- MONARCH 7 8x30/10x30/8x42/10x42
- MONARCH 5 8x42/10x42/12x42
- MONARCH 36/42 series
- PROSTAFF 7S 8x30/10x30/8x42/10x42
- PROSTAFF 7 8x42/10x42
- PROSTAFF 5 8x42/10x42
- PROSTAFF 3S 8x42/10x42
- 8x42HG L DCF
- 10x42HG L DCF
- 8x32HG L DCF
- 10x32HG L DCF

Hard (H) type

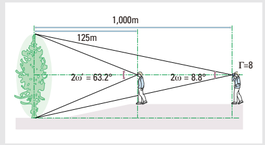
Values for Apparent Field of View

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

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

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

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



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 Fieldscope 85 VR

EDG Fieldscope 85-A VR

EDG Fieldscope 85

EDG Fieldscope 85-A

EDG VR Fieldscopes

Model name	EDG Fieldscope 85 VR	EDG Fieldscope 85-A VR
Objective diameter (mm)	85	85
Close focusing distance (m)	5.0	5.0
Length (mm)*1	379	398
Height x width (mm)*1	141 x 104	141 x 104
Weight (g)*1	2,400 (without batteries)	2,400 (without batteries)
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 Fieldscopes

Model name	EDG Fieldscope 85	EDG Fieldscope 85-A
Objective diameter (mm)	85	85
Length (mm)*	379	398
Height x width (mm)*	127 x 102	131 x 102
Weight (g)*	2,030	2,030

*Body only.

Eyepieces for EDG Fieldscopes

Model name		Magnification (x)	Angular field of view (Real/degree)	Angular field of view (Apparent/degree)*2	Field of view at 1,000m (m) (approx.)	Exit pupil (mm)	Relative brightness	Eye relief (mm)	Weight (g)
FEP-20W	With EDG 65 series	16	4.1	60.0	72	4.1	16.8	20.1	240
	With EDG 85 series	20	3.3	60.0	58	4.3	18.5	20.1	240
FEP-30W	With EDG 65 series	24	3.0	64.3	52	2.7	7.3	25.4	390*1
	With EDG 85 series	30	2.4	64.3	42	2.8	7.8	25.4	390*1
FEP-38W	With EDG 65 series	30	2.4	64.3	42	2.2	4.8	17.9	230
	With EDG 85 series	38	1.9	64.3	33	2.2	4.8	17.9	230
FEP-50W	With EDG 65 series	40	1.8	64.3	31	1.6	2.6	17.8	230
	With EDG 85 series	50	1.4	64.3	24	1.7	2.9	17.8	230
FEP-75W	With EDG 65 series	60	1.2	64.3	21	1.1	1.2	17	230
	With EDG 85 series	75	1.0	64.3	17	1.1	1.2	17	230
FEP-25 LER	With EDG 65 series	20	3.0	55.3	52	3.3	10.9	32.3	320
	With EDG 85 series	25	2.4	55.3	42	3.4	11.6	32.3	320
FEP-20-60	With EDG 65 series	16-48	2.8-1.4	42-60	49-24	4.1-1.4	16.8-2.0	18.4-16.5	330
	With EDG 85 series	20-60	2.2-1.1	42-60	38-19	4.3-1.4	18.5-2.0	18.4-16.5	330

*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

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

*1 Without caps. *2 When hood is fully extended. *3 This product will suffer no damage to the optical system if submerged or dropped in water to a maximum depth of 1 metre for up to 10 minutes. NOT designed for underwater usage. Note: Above specifications do not include eyepieces.

Eyepieces for MONARCH Fieldscopes

	Model name	Magnification (x)	Angular field of view (Real/degree)	Angular field of view (Apparent/degree)*1	Field of view at 1,000m (m) (approx.)	Exit pupil (mm)	Relative brightness	Eye relief (mm)	Weight (g)*2
	MEP-38W								
	with MONARCH 60 series	30	2.5	66.4	44	2.0	4.0	18.5	270
	with MONARCH 82 series	38	2.0	66.4	35	2.2	4.8	18.5	270
	MEP-20-60								
	with MONARCH 60 series	16-48	2.6-1.2*3	40.4-54.3*3	45-21*3	3.8-1.3*3	14.4-1.7*3	16.1-15.3*3	350
	with MONARCH 82 series	20-60	2.1-1.0*3	40.4-54.3*3	37-17*3	4.1-1.4*3	16.8-2.0*3	16.1-15.3*3	350
	MEP-30-60W								
	with MONARCH 60 series	24-48	2.5-1.5*3	55.3-65.6*3	44-26*3	2.5-1.3*3	6.3-1.6*3	15.2-14.2*3	370 (with DS)*4 400 (with TS)*5
	with MONARCH 82 series	30-60	2.0-1.2*3	55.3 - 65.6*3	35-21*3	2.7-1.4*3	7.3-2.0*3	15.2-14.2*3	370 (with DS)*4 400 (with TS)*5

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

Fieldscopes

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

*1 Body only (except PROSTAFF 3 Fieldscope). *2 For detailed specifications, see p 57.

Eyepieces for PROSTAFF 5 Fieldscopes

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

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

PROSTAFF 3 Fieldscopes

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

* 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

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

*1 These eyepieces are not to be used for Fieldscope I series. *2 Turn-and-slide rubber eyecup. *3 Apparent field of view is calculated based on the ISO 14132-1:2002 standard. For details, see p 54.
Note: All eyepieces can be used for Fieldscope II series, ED78 series, III series, EDIII series and ED82 series.

Model name		MONARCH 3000 STABILIZED	PROSTAFF 7i	PROSTAFF 3i	ACULON	Forestry Pro	COOLSHOT PRO STABILIZED	COOLSHOT 40i	COOLSHOT 40	COOLSHOT 20
Measurement range*		7.3-2,740m/8-3,000 yd.	7.3-1,200m/8-1,300 yd.	7.3-590m/8-650 yd.	5-500m/6-550 yd.	Distance: 10-500m/11-550 yd./33-999 ft. (*999 ft.: 304.5m/333 yd.) Angle: ±89°	7.5-1,090m/8-1,200 yd.	7.5-590m/8-650 yd.		5-500m/6-550 yd.
Distance display (Increment)		Actual distance: every 0.1 m/yd.	Actual distance: every 0.1m/yd. (shorter than 1,000m/yd.) every 1m/yd. (1,000m/yd. and over)	Actual distance: every 0.1 m/yd.	Actual distance: every 1m/yd.	[Internal Display] Act (Actual Distance): every 0.5m/yd., 1 ft. (shorter than 100m/yd./ft.) every 1m/yd./ft. (100m/yd./ft. and over) Hor (Horizontal Distance) and Hgt (Height): every 0.2m/yd., 0.5 ft. (shorter than 100m/yd./ft.) every 1m/yd./ft. (100m/yd./ft. and over) Ang (Angle): every 0.1° (less than 10°) every 1° (10° and over) *Downward angle from the horizontal line: with display "-" [External Display] Act (Actual Distance): every 0.5m/yd., 1 ft. Hor (Horizontal Distance) and Hgt (Height): every 0.2m/yd., 0.5 ft. Ang (Angle): every 0.1°	Actual distance (upper): every 1m/yd. Actual distance (lower): every 0.5m/yd. Horizontal distance/Slope adjusted distance (lower): every 0.2m/yd. Height (upper): every 0.2m/yd. (shorter than 100m/yd.) every 1m/yd. (100m/yd. and over)	Actual distance (upper 4-digit): every 0.5m/yd. Actual distance (lower 3-digit): every 1m/yd. Horizontal distance (upper 4-digit): every 0.2m/yd. Height (lower 3-digit): every 0.2m/yd. (shorter than 100m/yd.) every 1m/yd. (100m/yd. and over) Slope adjusted distance (Horizontal distance ±Height) (upper 4-digit): every 0.2m/yd.	Actual distance: every 0.5m/yd.	Actual distance: every 1m/yd.
Accuracy* (actual distance)		±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)	±0.5m/yd. (shorter than 600m/yd.) ±1m/yd. (600m/yd. and over, shorter than 1,000m/yd.) ±1.5m/yd. (1,000m/yd. and over)	±0.5m/yd.	±1m/yd. (shorter than 100m/yd.) ±2m/yd. (100m/yd. and over)	±1m/yd. (shorter than 300m/yd./900 ft.) ±0.6% (300m/yd./900 ft. and over)	±0.75m/yd. (shorter than 700m/yd.) ±1.25m/yd. (700m/yd. and over, shorter than 1,000m/yd.) ±1.75m/yd. (1,000m/yd. and over)	±0.75m/yd.		±1m/yd. (shorter than 100m/yd.) ±2m/yd. (100m/yd. and over)
Finder	Magnification (x)	6	6	6	6	6	6	6		6
	Effective objective diameter (mm)	21	21	21	20	21	21	21		20
	Actual field of view (°)	7.5	7.5	7.5	6.0	6.0	7.5	7.5		6.0
	Exit pupil (mm)	3.5	3.5	3.5	3.3	3.5	3.5	3.5		3.3
	Eye relief (mm)	18.0	18.3	18.3	16.7	18.2	18.0	18.3		16.7
Dimensions (L x H x W) (mm)		96 x 74 x 42	113 x 70 x 39	112 x 70 x 36	91 x 73 x 37	130 x 69 x 45	96 x 74 x 42	112 x 70 x 36		91 x 73 x 37
Weight (excluding battery) (g)		180	175	160	125	210	170	160		125
Power source		CR2 lithium battery x 1 (DC 3V) Auto power shut-off (after approx. 8 sec. unoperated)				CR2 lithium battery x 1 (DC3V) Auto power shutoff function equipped (after 30 sec.)	CR2 lithium battery x 1 (DC 3V) Auto power shut-off (after approx. 8 sec. unoperated)			
Laser classification		IEC60825-1: Class 1M Laser Product FDA/21 CFR Part 1040.10: Class I Laser Product								
Electromagnetic compatibility		FCC Part15 SubPartB class B, EU:EMC directive, AS/NZS, VCCI classB, CU TR 020, ICES-003	FCC Part15 SubPartB class B, EU: EMC directive, AS/NZS, VCCI classB, CU TR 020				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		
Environment		RoHS, WEEE								

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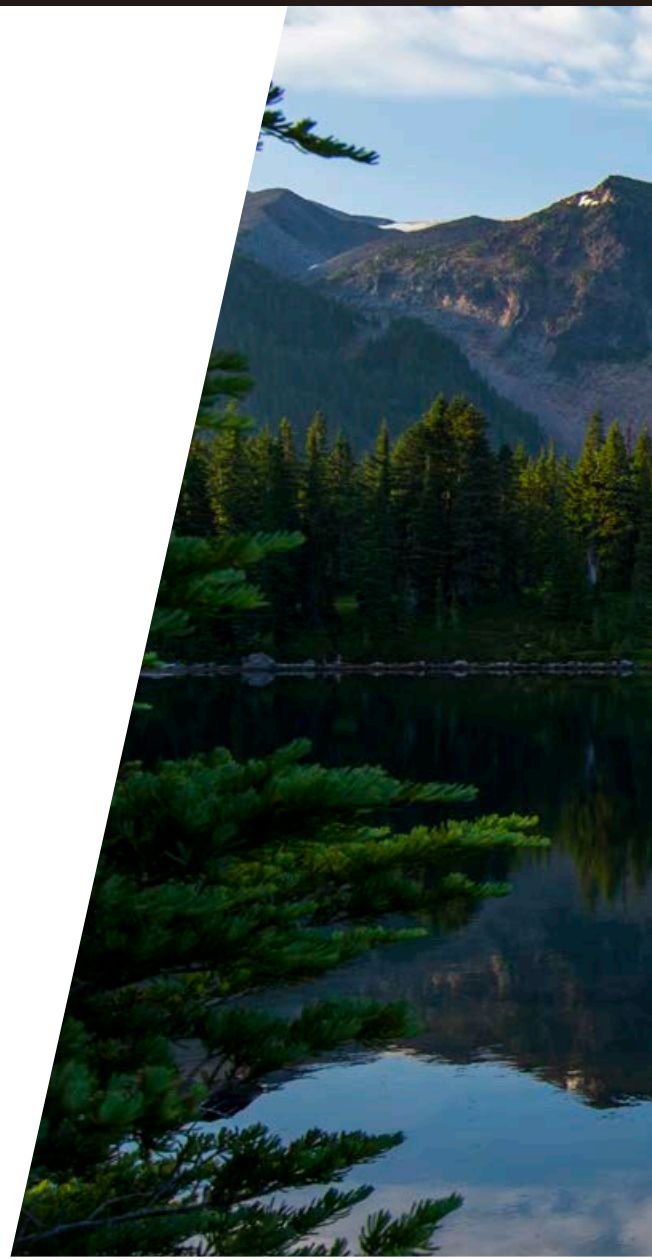

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