SPORT OPTICS
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 knowledge 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 world 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 (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.
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 proportion and its magnified size. With 10× 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.

Field of view
All binoculars use number codes to designate various specifications. In “8x40 8.8°”, for example, “8.8°” represents the apparent field of view, which is the angle of the viewing field measured from the central point of the objective lenses. The apparent/field of view, on the other hand, conveys how wide that field of view appears to the naked eye. With magnifications of 12x or greater, any shaking to hand movement is more likely to create an unstable image and uncomfortable viewing. With magnifications of 12x or greater, any shaking to hand movement is more likely to create an unstable image and uncomfortable viewing. Magnification, represented by a numerical value, is the relationship between a subject’s actual proportions and its magnified size. Therefore, 800 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.

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 30mm is the general limit for handheld use.

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

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

How to read the numerical information code for binoculars
All Nikon binoculars are designated with a numerical formula, such as “10x50 5.4°”. The value “10x” indicates the magnification of the binoculars. If a person uses the 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 1000 metres (100 divided by 10 equals 1000) with the naked eye.

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

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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 the 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 1000 metres (100 divided by 10 equals 1000) with the naked eye.

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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.

FEATURE ICONS
APPLICATION ICONS
BINOCULARS
UP-CLOSE AND REAL

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 no light and no image segment are lost, allowing for a bright field of view.

Individual Focusing
Binoculars that employ an Individual Focusing mechanism. Focus the right and left eye separately by rotating the dioptre adjustment ring. Structurally, the design easily maintains airtightness, making it suitable for waterproof models.

Central Focusing
Binoculars that employ a 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 Multi-Layer Coating
Multilayer coating is applied to the transmission surfaces of all lenses and prisms to enhance light transmission. This results in a brighter and clearer view.

Multi-Layer Coating
Multilayer coating is applied for increased light transmittance.

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

Long Eye Relief
High-magnification binoculars with eye piece of 16mm 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 damping function is incorporated to compensate for the vibration and provides a steady view for comfortable observations.

Birdwatching, nature watching
Binoculars with a wide field of view and 15x to 20x magnification are suited for general nature viewing. Observing animals at a distance or observing distance is more comfortable with the 42mm objective diameter. Zoom-type binoculars are recommended.

Camping, hiking
Pinpoint, wide field of view 15x to 20x models for general nature watching. Observation of a fish or a field can be handled with a 42mm objective diameter.

Spectator sports
Binoculars with 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
Charming, lightweight models with wide and bright magnification 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.

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

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

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

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

• **Nikon’s legendary ED (Extra-low Dispersion) glass lenses**
  Nikon’s legendary ED (Extra-low Dispersion) glass lenses effectively compensate for chromatic aberrations to provide images of superior contrast and outstanding resolution.

• **Field-flattener lens system**
  Nikon’s field-flattener lens system technology maintains curvature of field — aberrations that occur when focusing on the centre of the field of view causing the periphery to get out of focus and vice versa — and delivers sharper, clearer images with the edges of higher magnification.

• **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 an extended position. For eyeglass wearers, use them fully retracted. Eyecups can be adjusted to any of four click stops, offering fine adjustment that suits 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.

• **Dielectric high-reflective multilayer prism coating**
  Dielectric high-reflective multilayer coating is applied to a non-reflecting prism and then coated with a non-reflecting optical layer. This broadband high-reflective coating can be applied to the full surface of the prism, giving you clearer whites and a sharper, brighter, more natural vision across the entire field of view.

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

• **Brighter images, even at twilight**
  Advanced multi-layer coating is applied to all lenses and prisms to increase light transmission and to reduce glare, flares and ghosting, giving you super-bright, razor-sharp images, even in low light.

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

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

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• **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 design 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.

**Dielectric high-reflective multilayer prism coating**

- **Reflectance characteristics of prism coatings on mirror surface**
  Reflectance of different coatings:
  - **Dielectric high-reflective multilayer prism coating**
  - **Enhanced aluminium prism coating**
  - **Aluminium prism coating**

**Phase correction coating**

- **Reflectance characteristics of prism coatings on mirror surface**
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**Optical path**

- **Roof prism unit**
  400 450 500 550 600 650 700 60 65 70 75 80 85 90 95 100
  Reflectance (%)

- **Wavelength (nm)**
  For reference example only

- **Reflectance (%)**
  Reflectance characteristics of prism coatings on mirror surface

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  For non-eyeglass wearers, use the eyecups in an extended position. For eyeglass wearers, use them fully retracted. Eyecups can be adjusted to any of four click stops, offering fine adjustment that suits your needs.

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

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  Sturdy, lightweight die-cast magnesium alloy body.

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**For specifications, see p 48.**

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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, draws 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.

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 multi-coated for bright images
• Phase-correction-coated roof prisms for high resolution
• Scratch-resistant coating is applied to the objective lens surface (8×42, 10×42 only)
• Long eye relief design ensures a clear field of view, even for eyeglass wearers
• Rubber armouring for shock resistance and a firm, comfortable grip
• Lightweight body uses fibreglass-reinforced polycarbonate resin
• Flip-down objective lens caps

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 high-reflective image
• Extra-low dispersion (ED) glass corrects chromatic aberration. This results in a sharp and clear view even with high magnification.
• High-quality multi-coating is applied to all lenses and prisms. Anti-reflective dielectric coating is applied to the roof prisms, and aiming up to 92% in higher light transmittance, which enables a bright field of view and red eyes.
• Phase-correction-coated roof prisms for high resolution and contrast
• Scratch-resistant coating is applied to the objective lens surface (8×42, 10×42 only)
• 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
• Objective lens caps are integrated to prevent loss
• Soft-to-the-touch neck strap

Exquisite optical performance in a compact body delivering a wide field of view
• Sophisticatedly compact, extra-light 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 multi-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/sweatproof (8×30: 3 ft. for 10 minutes) 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 rubber grip
• Flip-down objective lens cap

For specifications, see pp 48-50.
The world on your terms

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

**PROSTAFF 7s**

- **8x30/10x42**
- **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
  - 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 10m/33 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

- **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 10m/33 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 5s**

- **8x32/10x42/12x50**
- **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 10m/33 ft. for 10 minutes) and fog-free with nitrogen gas
  - Rubber armouring for shock resistance and a firm, comfortable grip
  - Long eye relief design gives a clear field of view even when wearing glasses
  - Extremely compact and lightweight

**PROSTAFF 3s**

- **8x42/10x42**
- **Quality meets affordability in a compact and lightweight body**
  - Slim body with a comfortable grip
  - Multilayer-coated lenses and high-reflection prism coating ensure images are sharp and bright
  - High-reflection 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
  - Extremely compact and lightweight

For specifications, see pp. 68-69.*
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 W10

Colourful, lightweight and compact, waterproof binoculars

- Compact and lightweight for portability
- Multi-layer 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 T01

Expand your world with this stylish compact

- Compact and lightweight for portability — weighing a mere 195g
- Multi-layer 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 T01

For specifications, see pp 50-51.
**ACULON T51**

8x24/10x24

Sophisticated elegance for wherever you go

- Slim, compact and lightweight body
- Aspherical eyepiece lens eliminates image distortion even at the lens periphery (except zoom models)
- Multilayer-coated lenses for bright images
- Smooth zooming with finger-tip zoom control (zoom models only)
- Can be fixed to a tripod using optional tripod adaptor (see p 54)

**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
- Turn-and-slide rubber eyecups for bright images
- Four alluring colour variations: 8x24 in black, silver, pink and red/10x24 in black and silver

**ACULON A211**

7x50/8x42/10x42/16x50/12x50/8x25/10x25/16x50/8-18x42/10-22x50

Durability and a large objective lens for the great outdoors

- Aspherical eyepiece lens eliminates image distortion even at the lens periphery (except zoom models)
- Multilayer-coated lenses for bright images
- Turn-and-slide rubber eyecups facilitate easy positioning of eyes at the correct eyepoint (except zoom models)
- Rubber armour for shock resistance and a firm, comfortable grip
- Smooth opening, with finger-strap control (except zoom models)
- Can be fixed to a tripod using optional tripod adaptor (see p 54)

**ACULON T51**

8x24/10x24

Sophisticated elegance for wherever you go

- Slim, compact and lightweight body
- Multilayer-coated lenses for bright images
- Smooth zooming with finger-tip zoom control (zoom models only)
- Can be fixed to a tripod using optional tripod adaptor (see p 54)

**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
- Turn-and-slide rubber eyecups for bright images
- Four alluring colour variations: 8x24 in black, silver, pink and red/10x24 in black and silver

**ACULON A30**

8x25/10x25

Strong performance in a compact body for added user confidence

- Compact and lightweight
- Multilayer-coated lenses for bright images
- Compact eye relief design ensures a clear field of view, even for eyeglass wearers (8x25)
- Turn-and-slide rubber eyecups for bright images
- High-contrast, multilayer-coated optical system
- Turn-and-slide rubber eyecups for bright images
- Turn-and-slide rubber eyecups for bright images
- Four alluring colour variations: 8x25 in black, silver, blue, white/10x25 in black and silver
Elegant Compact

Up-close at concerts, the theatre and museums

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

5x15 HG Monocular/7x15 HG Monocular

• Robust, lightweight die-cast magnesium 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

Sportstar EX

5x20HG L DCF/10x25HG L DCF

Exceptional, compact performance
• Sturdy, lightweight die-cast magnesium alloy body
• Fully multi-coated lenses for brighter images
• Phase correction: coated prisms for high resolution
• Multi-layered coated lenses for bright images
• Long eye relief design ensures a clear field of view, even for eyeglass wearers
• Close focusing distance: 0.8m (5x), 1.6m (10x)

Compact & High Grade

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.

4x10DCF

Elegant performance in a sleek design
• Ultra compact and lightweight (105g only)
• Close focusing distance: 1.2m
• All lenses and prisms are multi-layer coated for bright images
• Easy operation (Dioptre adjustment unit is required)
• Stylish design
• Available in four colours: black, silver, red and white

6x15M CF/7x15M CF Black

Timeless performance and design
• Double locked body
• Ultra-compact and lightweight
• Close focusing distance: 3m
• Multi-layer coated lenses for bright images

4x10DCF <Silver> <White>

Effortless performance in a sleek design
• Ultra-compact and lightweight (95g only)
• Close focusing distance: 1.2m
• All lenses and prisms are multi-layer coated for bright images
• Easy operation (Dioptre adjustment unit is required)
• Stylish design
• Available in four colours: black, silver, red and white

5x15 HG Monocular/7x15 HG Monocular

Perfect for viewing masterpieces in sharp detail
• Robust, lightweight die-cast magnesium alloy body
• Phase correction: coated prisms for high resolution
• Multi-layered coated lenses for bright images
• Long eye relief design ensures a clear field of view, even for eyeglass wearers
• Close focusing distance: 0.8m (5x), 1.6m (10x)

6x15M CF/7x15M CF Black

Timeless performance and design
• Double locked body
• Ultra-compact and lightweight
• Close focusing distance: 3m
• Multi-layer coated lenses for bright images

4x10DCF <Silver> <White>

Effortless performance in a sleek design
• Ultra-compact and lightweight (95g only)
• Close focusing distance: 1.2m
• All lenses and prisms are multi-layer coated for bright images
• Easy operation (Dioptre adjustment unit is required)
• Stylish design
• Available in four colours: black, silver, red and white

5x15 HG Monocular/7x15 HG Monocular

Perfect for viewing masterpieces in sharp detail
• Robust, lightweight die-cast magnesium alloy body
• Phase correction: coated prisms for high resolution
• Multi-layered coated lenses for bright images
• Long eye relief design ensures a clear field of view, even for eyeglass wearers
• Close focusing distance: 0.8m (5x), 1.6m (10x)

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• Double locked body
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• Close focusing distance: 3m
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4x10DCF <Silver> <White>

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• Ultra-compact and lightweight (95g only)
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5x15 HG Monocular/7x15 HG Monocular

Perfect for viewing masterpieces in sharp detail
• Robust, lightweight die-cast magnesium alloy body
• Phase correction: coated prisms for high resolution
• Multi-layered coated lenses for bright images
• Long eye relief design ensures a clear field of view, even for eyeglass wearers
• Close focusing distance: 0.8m (5x), 1.6m (10x)
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.

7x50CF WP/7x50CF WP GLOBAL COMPASS

Specially designed for maritime professionals

- Waterproof (up to 2m/6.6 ft. for 5 minutes) and fog-free with nitrogen gas
- All lenses and prisms are multilayer-coated for bright images
- Long eye relief design ensures a clear field of view, even for eyeglass wearers
- Multi-layer-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)

7x50CF WP

Compass and distance scale (Non-linkage WP GLOBAL COMPASS)

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

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.

Action EX

A comfortable viewing in the most challenging conditions

- Waterproof (up to 2m/6.6 ft. for 5 minutes) and fog-free with nitrogen gas
- Large 70mm objective diameter for exceptionally bright, high magnification
- 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 models)
- Wide strap
- Can be fixed to a tripod using optional tripod adaptor (16x50CF includes tripod adaptor) (see p 54)

10x70CF WP

Waterproof durability, even in harsh conditions

- Waterproof (up to 2m/6.6 ft. for 5 minutes) and fog-free with nitrogen gas
- Multilayer-coated large 50mm objective lenses for bright images
- Large 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)

Action EX 7x50CF

- 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.

7x50IF SP WP/10x70IF SP WP

Edge-to-edge sharpness for sealavvers, stargazing

- Superior optical design for advanced nature observers, built especially for astronomical use
- Multi-layer 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 eyeglasses wearers
- Can be fitted to a tripod using optional tripod adaptor (see p 54)
- Polarizing filter and horn-shaped rubber eyecup are available (optional, see p 22)

18x70IF WP WF

Extra magnification for sealavvers, 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 eyeglasses wearers
- Can be fitted to a tripod using optional tripod adaptor (see p 54)
- Polarizing filter and horn-shaped rubber eyecup are available (optional, see p 22)

Journey deep into the starry sky

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

WX 7x50 IF/10x50 IF

- Exceptional 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 over the entire field of view
- Three ED (Extra-low Dispersion) glass elements per tube give a high-resolution and contrast-rich image
- ED glass also compensates for chromatic aberrations, 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 universally high light transmittance across the entire visible range
- Edible-flake prisms ensure the exceptional level of brightness needed to complement the outstanding optical achievement of a super-wide field of view
- Precise decentering on the Black 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 38°.4 and eye relief 25.9 mm for WX 7x50 IF
- Apparent field of view 55°.4 and eye relief 15.0 mm for WX 10x50 IF
- Designed for comfortable viewing over long periods of observation, with a sturdy, lightweight magnesium alloy body
- Turn-and-slide rubber eyecups, with six clicks for easy positioning

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

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

*As of October, 2011.

EDG Fieldscope 85/85-A VR

EDG Fieldscope 85 VR/85-A VR

Experience comfortable viewing with Nikon’s premium EDG brand Fieldscopes

- 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

- Extra-low dispersion (ED) glass for chromatic aberration compensation and brighter, clearer viewing
- Dielectric high-reflective multi-layered mirror coating on roof prism for the brightest view (straight models only)
- Phase-correction coated roof prisms for high-resolution
- Advanced multi-layered coating is applied to all lenses and prism for the brightest images
- Waterproof (up to 2m for 10 minutes)* 2 and fog-free with nitrogen gas (body/eyepiece joint and the body/battery holder joint are water-resistant)* 3
- 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-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)

*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).

EDG Fieldscope VR/VR-A VR

Eyepieces for EDG Fieldscopes

- Seven kinds of eyepieces for optimum optical performance
- Sophisticated optical technologies complement superb mechanical functions
- Fully multilayer-coating
- Waterproof (up to 2m for 10 minutes), and buoyant — thanks to a nitrogen gas (body-and-eyepiece joint and the body/battery holder joint are water-resistant)* 3
- Clarity of images with these eyepieces is the same as the eyepieces with the naked eye, for digiscoping with compact digital cameras
- Waterproof 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

For specifications, see p 55.

EDG Fieldscope 85/85-A VR

EDG Fieldscope 85 VR

EDG Fieldscope 85-A VR

EDG Fieldscope 85-VR/85-A VR

EDG Fieldscope 85-VR

EDG Fieldscope 85-A VR

FEP-30W
(24x/30x wide)

FEP-25 LER
(20x/25x)

FEP-20-60
(160x/20-60x)

FEP-38W
(16x/38x wide)

FEP-20W
(16x/20x wide)

FEP-50W
(40x/50x wide)

FEP-75W
(60x/75x wide)

FEP-30W
(24x/30x wide)

FEP-25 LER
(20x/25x)

FEP-20-60
(160x/20-60x)

FEP-38W
(16x/38x wide)

FEP-20W
(16x/20x wide)

FEP-50W
(40x/50x wide)

FEP-75W
(60x/75x wide)
**MEP-38W**

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

**MEP-20-60**

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

**MEP-30-60W**

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

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**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°
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- Versatile 2x zoom
- Designed expressly for MONARCH Fieldscopes
- Advanced optical design optimally corrects image distortion across full zoom range
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- 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

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

- Advanced Achromatic Optical System with ED (extra-low dispersion) glass ensures 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
- Multi-layer coating is applied to all lenses and prisms for high transmission and brightness
- 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 optimal 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 bolts for easy attachment and detachment
- Aluminium alloy body optimises 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 field flattener insertion (80mm-diameter models 80mm-insertable module, 60mm-diameter models 60mm-insertable module
- Knob design on the focusing ring for excellent operability
- The product will suffer no damage to the optical systems if submerged or stopped in water to a maximum depth of 1 meter for up to 12 minutes (NTT designed for underwater acceptance)

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**M80 (Black)**

**M60 (Black)**

**M30 (Black)**

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*For specifications, see page 56.
PROSTAFF 5 Fieldscope 82-A
PROSTAFF 5 Fieldscope 82
PROSTAFF 5 Fieldscope 60
PROSTAFF 5 Fieldscope 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 multi-layer coated for bright images
• Chromatic aberration at the peripheries is well controlled and minimized
• Water-resistant up to 3.3 ft. (1m) for 10 minutes and fog-free with nitrogen gas (Eyepieces are water-resistant when attached to the Fieldscope body)
• Eyepiece 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 3 Fieldscope with supplied tripod and carrying case

ED50/ED50 A

Nikon’s smallest high-end scope features brilliant optics
• Compact and lightweight with 50mm-diameter ED (Extra-low Dispersion) objective lens to minimize chromatic aberration
• Available in straight or angled design
• Multi-layer coated lenses for bright images
• Water-resistant up to 3.3 ft. (1m) for 10 minutes and fog-free with nitrogen gas
• Choose from two colours — charcoal grey and pearl-scent green
• Compatible with MC eyepieces and Wide DS eyepieces (optional)
• Filter ring (P=0.75) can be attached to objective lens

Fieldscopes ED50/ED50 A

COMPACT DESIGN AND RELIABLE PERFORMANCE
• Compact, lightweight and sleek design
• All lenses and prisms are multi-layer 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

Eyepieces for PROSTAFF 5 Fieldscopes
• Fully multi-layer coated
• Long eye relief design for viewing comfort with eyeglasses
• Stability for both horizontal and longitudinal orientation
• Incorporates the same materials as Fieldscopes and binoculars
• Water-resistant when attached to Fieldscope body

Eyepieces for Fieldscopes

Fieldscope ED50/ED50 A

PROSTAFF 3 Fieldscope

Compact design and reliable performance
• Compact, lightweight and sleek design
• All lenses and prisms are multi-layer 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

Eyepieces for Fieldscopes

Fieldscope ED50/ED50 A

PROSTAFF 3 Fieldscope

Compact design and reliable performance
• Compact, lightweight and sleek design
• All lenses and prisms are multi-layer 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

Eyepieces for Fieldscopes

Fieldscope ED50/ED50 A
With Nikon COOLPIX Digital Cameras

**DIGITAL CAMERA BRACKETS**

**DIGISCOPING ADAPTER**

**DIGISCOPING BRACKET**
Lasers Rangefinders

The Measure of Excellence

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

Innovative distance measurement in your pocket
- Extended maximum range of 2,740m/3,000 yd.*
- STABILIZED system reduces vibrations of the image in the viewfinder caused by hand movement to give a stable image for easy targeting.
- STABILIZED technology aligns focused laser beam with line of sight while it reduces vibrations, improving accurate measurement to smaller subjects.
- Fast infrared display shows LED readout and monocular, focusing ring and achieving distance — easily readable in low-light.
- Automatic brightness function for laser display brightness according to ambient light level.
- 3D Technology modewhich balances and declines of a target, and allows simple switching between Horizontal Distance and Actual Distance.
- Multi-layer 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 Distance Target Priority for the 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.

MONARCH 3000

STABILIZED

Employing Nikon’s STABILIZED system, vibrations of the image in the viewfinder caused by hand movement are reduced* and the stabilized laser is also stabilized 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).

Display mode cycle

- Horizontal distance mode
- Actual distance mode

Conceptual image

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

For specifications, see pp. 58-59.
Easy-to-hold, ergonomically designed body plus iD Technology

• 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 that 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.

• Displays measurement step in 0.5 second
• Single or continuous measurement (up to 8 seconds)
• 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 binoculars with multifaceted coating for bright, clear images
• Large ocular for easy viewing (18 mm)
• Wide field of view (7.5 degrees)
• Distant Target Priority mode is employed.

• Measurement range: 5-500 m/6-550 yd.

Compact laser rangefinder with Distant Target Priority mode

• Measurement range: 5-500 m/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.

• Laser Rangefinders

Accurate and reliable measurement functions, three-point measurement (height between two points) is available — useful when measuring the distance to a subject in front of an overlapping background. Distant Target Priority mode displays the distance of the closest subject — useful when measuring the distance to a subject in front of an overlapping background.

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

Laser Rangefinders

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

• Measurement range: 5-500 m/6-550 yd.

- 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.

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**COOLSHOT 40 PRO STABILIZED**

**Measurement range:** 7.5-1,090m/8-1,200 yd.  
**STABILIZED technology is employed for leveling measurement to a distant flagstick while reducing the vibration caused by hand movement.**  
**The effect of vibration reduction.**  
**In the image, the vibration caused by hand movement is reduced thanks to the effect.**  
**3 m or less**  
**Best Internal Display enhances eye-catching display even in situations with low light level.**  
**Quick and stable measurement performance regardless of distance — HYPER READ is much evolved and displays the measurement result in approx. 0.3 second.**  
**First Target Priority mode is employed. When measuring overlapping subjects, the distance of the closest subject is displayed — useful when golfing on a golf course with woods in the background.**  
**STABILIZED function is employed for facilitating measurement to a distant flagstick while reducing the vibration caused by hand movement.**  
**The effect of vibration reduction.**  
**In the image, the vibration caused by hand movement is reduced thanks to the effect.**  
**80%**  
**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 the same time, the internal display is also stabilized.**  
**You can acquire a stable subject image on a flagstick, and direct the viewfinder to the target more easily.**  
**This is achieved by the Nikon's original technologies that are a fusion of vibration reduction and high-performance measurement function.**  
**Stabilized Laser Rangefinders.**  
**Inclined (for uphill) Declined (for downhill)**  
**Laser Rangefinders**  

**LOCKED ON TECHNOLOGY**  
**Clicks the image on an angle shot to a green with trees in the background, where you are not sure whether the measured distance is to the flagstick or the trees behind it.**  
**The LOCKED ON TECHNOLOGY displays the distance to the ground surface to the flagstick.**  
**At the same time, the LOCKED ON TECHNOLOGY displays the distance to the ground surface to the flagstick.**  
**The 3D image in the viewfinder is to further enhance the depth of field.**  
**It is clearly visible that the distance to the flagstick has been measured even with trees in the background.**  
**Measurement range:** 7.5-1,090m/8-1,200 yd.  
**Continuous Measurement:** When continuously shoots in the viewfinder, the 3D image appears.  

**COOLSHOT 40i**  
**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 distances (horizontal distance ± Height).**  
**Single measurement: When measuring overlapping subjects and the distance to the closest subject is displayed — 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 in the measurement to a flagstick on a green with woods in the background.**  
**Distance measurement display step is 0.5m/yd.**  
**Displays the measurement result in approx. 1/5 or less (Based on Nikon's measurement standards).**  

---

**Specifications:**  
**For specifications, see pg 98-106.**
COOLSHOT 40

Designed to measure actual distance with quick response and high accuracy

- 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.
- Quick and stable measurement 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

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 and ergonomic design.
- Distance measurement display step is 0.5m/yd.
- 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.
- 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

GOING THE DISTANCE

* For specifications, see pp. 58-59.
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
- Weight (with stand, binocular tubes in horizontal position): 440mm
- Rigorously tested (stand optional) available

<table>
<thead>
<tr>
<th>Model name</th>
<th>20x120 III</th>
</tr>
</thead>
<tbody>
<tr>
<td>Magnification (x)</td>
<td>20</td>
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<tr>
<td>Objective diameter (mm)</td>
<td>120</td>
</tr>
<tr>
<td>Angular field of view (Real) (°)</td>
<td>3.0</td>
</tr>
<tr>
<td>Angular field of view (Apparent) (°)</td>
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</tr>
<tr>
<td>Field of view at 1000m (m)</td>
<td>52</td>
</tr>
<tr>
<td>Exit pupil (mm)</td>
<td>6.0</td>
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<tr>
<td>Relative brightness</td>
<td>36.0</td>
</tr>
<tr>
<td>Eye relief (mm)</td>
<td>20.8</td>
</tr>
<tr>
<td>Close focusing distance (m)</td>
<td>133.0</td>
</tr>
<tr>
<td>Interpupillary distance adjustment (mm)</td>
<td>58-74</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>15.5*</td>
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<tr>
<td>Length (mm)</td>
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<tr>
<td>Width (mm)</td>
<td>452*</td>
</tr>
</tbody>
</table>

*Binocular body only

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

**Loupes**
- Built-in LED illumination provides natural light across a broad area.
- Lighting unit easily retracted in or out. Lighting angle can also be adjusted.
- High-performance optical lens reduces image distortion all the way to the lens periphery.
- Hard coating on the lenses to prevent scratching.

**Model name**
- **Reading Magnifier L1 Series**
- **Precision Loupe**

**Specifications**
- **Model name L1-4D (Square type)**
  - **Model name L1-8D (Round type)**

<table>
<thead>
<tr>
<th>Feature</th>
<th>L1-4D (Square)</th>
<th>L1-8D (Round)</th>
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<tr>
<td>Dimensions</td>
<td>160 x 198 x 17</td>
<td>230 x 91 x 17</td>
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<td>Refractive power (dioptres)</td>
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<td>8</td>
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<td>Effective size/diameter (mm)</td>
<td>100 x 54</td>
<td>80</td>
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<tr>
<td>Power source</td>
<td>LR03 (AAA size) alkaline battery x 1</td>
<td></td>
</tr>
<tr>
<td>Weight (g)</td>
<td>115</td>
<td>114</td>
</tr>
</tbody>
</table>

**Precision Loupe**
- Specially designed for technicians.
- Adjustable refractive lens is ideal for professional tasks.
- Lens comprises three optical glass elements.

**Model name Precision Loupe**
- **EZ-Micro + FSB-UC + COOLPIX Digital Camera**

<table>
<thead>
<tr>
<th>Feature</th>
<th>EZ-Micro</th>
<th>Fieldmicroscope</th>
<th>Fieldmicroscope Mini</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (mm)</td>
<td>In use: 184-238(H) x 94(D) x 100(W)</td>
<td>(Folded close) 124(H)</td>
<td>(top: flat; underside: built-in cup)</td>
</tr>
<tr>
<td>Magnification (x)</td>
<td>20</td>
<td>Variable</td>
<td>5x-20x</td>
</tr>
<tr>
<td>Optical system</td>
<td>Upright, unreversed image; eyepiece dioptre adjustable</td>
<td>Stereoocular</td>
<td>Stereoocular</td>
</tr>
<tr>
<td>Angle of view (°)</td>
<td>12.6</td>
<td>12.6</td>
<td>12.6</td>
</tr>
<tr>
<td>Field of vision (mm)</td>
<td>11 (diameter)</td>
<td>11 (diameter)</td>
<td>11 (diameter)</td>
</tr>
<tr>
<td>Heights and widths (mm)</td>
<td>156-202(H) x 89(D) x 90(W)</td>
<td>102 x 72 x 15</td>
<td>72 x 47 x 18</td>
</tr>
<tr>
<td>Eye relief (mm)</td>
<td>12.8</td>
<td>12.8</td>
<td>12.8</td>
</tr>
<tr>
<td>Vertical adjustment</td>
<td>38mm from the base of stage</td>
<td>50mm from the base of stage</td>
<td>40mm from the base of stage</td>
</tr>
<tr>
<td>Light source</td>
<td>Two white LEDs</td>
<td>Two white LEDs</td>
<td>Two white LEDs</td>
</tr>
<tr>
<td>Power source</td>
<td>One AA-size battery</td>
<td>One AA-size battery</td>
<td>One AA-size battery</td>
</tr>
<tr>
<td>Magnification (x)</td>
<td>20 (fixed)</td>
<td>20 (fixed)</td>
<td>20 (fixed)</td>
</tr>
<tr>
<td>Dimensions (mm)</td>
<td>In use: 162-202(H) x 145(D) x 106(W)</td>
<td>(Folded close) 138 (H) with lighting fitted</td>
<td>Dimensions (mm) (In use) 156-202(H) x 89(D) x 90(W)</td>
</tr>
<tr>
<td>Plate Removal and reversible stage</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Focus</td>
<td>Eye piece</td>
<td>Eye piece</td>
<td>Eye piece</td>
</tr>
<tr>
<td>Magnification (x)</td>
<td>5-20</td>
<td>5-20</td>
<td>5-20</td>
</tr>
<tr>
<td>Optical system</td>
<td>Stereoocular</td>
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<tr>
<td>Field of vision (mm)</td>
<td>11 (diameter)</td>
<td>11 (diameter)</td>
<td>11 (diameter)</td>
</tr>
<tr>
<td>Vertical adjustment</td>
<td>40mm from the base of stage</td>
<td>50mm from the base of stage</td>
<td>40mm from the base of stage</td>
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<tr>
<td>Light source</td>
<td>Two white LEDs</td>
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## TECHNICAL DATA

### Binoculars

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<thead>
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<th>S2G 6x42</th>
<th>S2G 7x42</th>
<th>S2G 8x42</th>
<th>S2G 10x42</th>
<th>MONARCH HG 8x30</th>
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<tr>
<td>Model name</td>
<td>EDG 8x32</td>
<td>EDG 8x42</td>
<td>EDG 10x32</td>
<td>EDG 7x42</td>
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<td>Exit pupil (mm)</td>
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### MONARCH HG 8x30

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<td>Field of view at 1,000m (m)</td>
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### MONARCH HG 10x30

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

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<td>77°</td>
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<td>23°</td>
<td>13°</td>
<td>23°</td>
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<td>180</td>
<td>180</td>
<td>180</td>
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<td>3.6</td>
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<tr>
<td>Relative brightness</td>
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<td>44 (56°)</td>
<td>44 (56°)</td>
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### Marine

| Model name | BaShe L DCF | 10x60 L DCF | 12x60 L DCF | 12x60 IF DCF | 10x60 CF WP | 7x50 CF WP Global Compass | 7x50 IF WP Global Compass | 7x50 IF HP WP Tropical | 10x50 CF WP Action EX | 7x50 CF Action EX | 8x40 CF Action EX | 7x50 CF Action EX | 10x50 CF Action EX | 12x50 CF Action EX | 16x50 CF Action EX |
|------------|-------------|------------|-------------|-------------|-------------|-----------------------------|-----------------------------|-----------------------------|-----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Magnification (x) | 8 | 8 | 8 | 10 | 7 | 7 | 10 | 10 | 7 | 7 | 10 | 10 | 10 | 10 | 10 | 10 |
| Objective diameter (mm) | 26 | 26 | 26 | 70 | 50 | 50 | 70 | 50 | 50 | 50 | 70 | 50 | 50 | 50 | 50 | 50 |
| Angle field of view (300m) | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 |
| Angle field of view (900m) | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| Field of view at 1,000m (m) | 122 | 122 | 122 | 122 | 122 | 122 | 122 | 122 | 122 | 122 | 122 | 122 | 122 | 122 | 122 | 122 |
| Exit pupil (mm) | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| Relative brightness | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 |
| Eye relief (mm) | 15.0 | 15.0 | 22.7 | 22.7 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 |
| Close focusing distance (m) | 2.4 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| Interpupillary distance adjustment (mm) | 56-72 | 56-72 | 56-72 | 56-72 | 59-72 | 56-72 | 56-72 | 56-72 | 56-72 | 56-72 | 56-72 | 56-72 | 56-72 | 56-72 | 56-72 | 56-72 |
| Weight (g) | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 |
| Length (mm) | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 |
| Width (mm) | 50 (60°) | 50 (60°) | 50 (60°) | 50 (60°) | 50 (60°) | 50 (60°) | 50 (60°) | 50 (60°) | 50 (60°) | 50 (60°) | 50 (60°) | 50 (60°) | 50 (60°) | 50 (60°) | 50 (60°) | 50 (60°) |

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

#### Specifications

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

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<tr>
<th>Width (mm)</th>
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<th>210</th>
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<td>56-72</td>
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<td>56-72</td>
<td>58-78</td>
<td>58-78</td>
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<tr>
<td>Angular field of view (Apparent/degree)</td>
<td>8.8</td>
<td>7.0</td>
<td>7.3</td>
<td>5.1</td>
<td>4.0</td>
<td>10.7</td>
<td>9.0</td>
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<td>13.8</td>
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<td>2,420</td>
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<td>7.1</td>
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<td>5.0</td>
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<td>Roof (Abbe-Koenig)</td>
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</table>

#### Value for Apparent Field of View

With the current test methods and procedure, the apparent field of view is now calculated by using a 1 m distance from the eyepiece. The following figures are now based on the ISO 14132-1:2002 standard, and obtained by the following formula:

\[ \text{Angular field of view (Real/degree)} = \frac{2 \times \tan^{-1} (8 \times \tan 4.4°)}{\text{Field of view at 1,000m (m)}} \]

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

\[ \text{Angular field of view (Real/degree)} = \frac{2 \times \tan^{-1} (8 \times \tan 4.4°)}{8.8°} \]

#### Binocular Accessories

**Tripod/monopod adaptors**

- **EDG Fieldscopes**
  - Tripod: ED-30F, ED-20F
  - Monopod: ED-20F<br>
  - **EDG VR Fieldscopes**
  - **EDG Fieldscopes**
    - Tripod: ED-30F, ED-20F
    - Monopod: ED-20F

**Hard (H) type**

- **EDG Fieldscopes**
  - **EDG VR Fieldscopes**
  - **EDG Fieldscopes**
  - **EDG VR Fieldscopes**

### Fieldscopes

#### EDG VR Fieldscopes

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<td>Approx. 1/8</td>
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#### EDG Fieldscopes

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<td>Power source</td>
<td>AA alkaline battery or AA/LR06 (alkaline)</td>
<td>AA alkaline battery or AA/LR06 (alkaline)</td>
</tr>
<tr>
<td>Battery (type)</td>
<td>AA alkaline battery or AA/LR06 (alkaline)</td>
<td>AA alkaline battery or AA/LR06 (alkaline)</td>
</tr>
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</table>

#### Eyepieces for EDG Fieldscopes

<table>
<thead>
<tr>
<th>Magnification</th>
<th>EDG Fieldscope 85 VR</th>
<th>EDG Fieldscope 85-A VR</th>
</tr>
</thead>
<tbody>
<tr>
<td>8x32</td>
<td>3.0</td>
<td>3.0</td>
</tr>
<tr>
<td>10x42</td>
<td>3.0</td>
<td>3.0</td>
</tr>
<tr>
<td>16x70</td>
<td>1.6</td>
<td>1.6</td>
</tr>
<tr>
<td>20x80</td>
<td>1.2</td>
<td>1.2</td>
</tr>
<tr>
<td>24x90</td>
<td>1.1</td>
<td>1.1</td>
</tr>
<tr>
<td>30x120</td>
<td>1.2</td>
<td>1.2</td>
</tr>
<tr>
<td>36x150</td>
<td>1.0</td>
<td>1.0</td>
</tr>
</tbody>
</table>

#### Types of EDG Fieldscopes

- **Model name**
  - **EDG Fieldscope 85 VR**
  - **EDG Fieldscope 85-A VR**

<table>
<thead>
<tr>
<th>Magnification</th>
<th>EDG Fieldscope 85 VR</th>
<th>EDG Fieldscope 85-A VR</th>
</tr>
</thead>
<tbody>
<tr>
<td>8x30</td>
<td>3.0</td>
<td>3.0</td>
</tr>
<tr>
<td>10x40</td>
<td>3.0</td>
<td>3.0</td>
</tr>
<tr>
<td>16x70</td>
<td>1.6</td>
<td>1.6</td>
</tr>
<tr>
<td>20x80</td>
<td>1.2</td>
<td>1.2</td>
</tr>
<tr>
<td>24x90</td>
<td>1.1</td>
<td>1.1</td>
</tr>
<tr>
<td>30x120</td>
<td>1.2</td>
<td>1.2</td>
</tr>
<tr>
<td>36x150</td>
<td>1.0</td>
<td>1.0</td>
</tr>
</tbody>
</table>

**Note:** Subjective appearance may vary due to conditions, temperature and vibration.

**Battery life**

- **EDG Fieldscope 85 VR**
  - Approx. 17 hours (AA alkaline battery), approx. 31 hours (AA lithium battery)
- **EDG Fieldscope 85-A VR**
  - Approx. 17 hours (AA alkaline battery), approx. 31 hours (AA lithium battery)

**EDG Fieldscope 85-A VR**

- **Model name**
  - **EDG Fieldscope 85-A VR**
  - **EDG Fieldscope 85 VR**

<table>
<thead>
<tr>
<th>Magnification</th>
<th>EDG Fieldscope 85-A VR</th>
<th>EDG Fieldscope 85 VR</th>
</tr>
</thead>
<tbody>
<tr>
<td>8x30</td>
<td>3.0</td>
<td>3.0</td>
</tr>
<tr>
<td>10x40</td>
<td>3.0</td>
<td>3.0</td>
</tr>
<tr>
<td>16x70</td>
<td>1.6</td>
<td>1.6</td>
</tr>
<tr>
<td>20x80</td>
<td>1.2</td>
<td>1.2</td>
</tr>
<tr>
<td>24x90</td>
<td>1.1</td>
<td>1.1</td>
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<tr>
<td>30x120</td>
<td>1.2</td>
<td>1.2</td>
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<tr>
<td>36x150</td>
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<td>1.0</td>
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**EDG Fieldscope 85 VR**

- **Model name**
  - **EDG Fieldscope 85 VR**
  - **EDG Fieldscope 85-A VR**

<table>
<thead>
<tr>
<th>Magnification</th>
<th>EDG Fieldscope 85 VR</th>
<th>EDG Fieldscope 85-A VR</th>
</tr>
</thead>
<tbody>
<tr>
<td>8x32</td>
<td>3.0</td>
<td>3.0</td>
</tr>
<tr>
<td>10x42</td>
<td>3.0</td>
<td>3.0</td>
</tr>
<tr>
<td>16x70</td>
<td>1.6</td>
<td>1.6</td>
</tr>
<tr>
<td>20x80</td>
<td>1.2</td>
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</tr>
<tr>
<td>24x90</td>
<td>1.1</td>
<td>1.1</td>
</tr>
<tr>
<td>30x120</td>
<td>1.2</td>
<td>1.2</td>
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<tr>
<td>36x150</td>
<td>1.0</td>
<td>1.0</td>
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**EDG Fieldscope 85-A VR**

- **Model name**
  - **EDG Fieldscope 85-A VR**
  - **EDG Fieldscope 85 VR**

<table>
<thead>
<tr>
<th>Magnification</th>
<th>EDG Fieldscope 85-A VR</th>
<th>EDG Fieldscope 85 VR</th>
</tr>
</thead>
<tbody>
<tr>
<td>8x32</td>
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<tr>
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<td>1.6</td>
</tr>
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<td>1.2</td>
<td>1.2</td>
</tr>
<tr>
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<td>1.1</td>
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<td>30x120</td>
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<td>1.2</td>
</tr>
<tr>
<td>36x150</td>
<td>1.0</td>
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## Specifications

### MONARCH Fieldscopes

<table>
<thead>
<tr>
<th>Model name</th>
<th>MONARCH Fieldscope ED5-5</th>
<th>MONARCH Fieldscope ED8-5</th>
<th>MONARCH Fieldscope ED10</th>
<th>MONARCH Fieldscope ED5-5</th>
<th>MONARCH Fieldscope ED8-5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Objective diameter (mm)</td>
<td>52</td>
<td>62</td>
<td>62</td>
<td>60</td>
<td>60</td>
</tr>
<tr>
<td>Clear focusing distance (m)</td>
<td>5.8</td>
<td>6.0</td>
<td>6.0</td>
<td>5.5</td>
<td>5.5</td>
</tr>
<tr>
<td>Eye relief (mm)</td>
<td>67 (P=1.0)</td>
<td>67 (P=1.0)</td>
<td>67 (P=1.0)</td>
<td>67 (P=1.0)</td>
<td>67 (P=1.0)</td>
</tr>
<tr>
<td>Length (mm)</td>
<td>258 (576) x 101 x 98</td>
<td>320 (674) x 101 x 98</td>
<td>270 (600) x 103 x 98</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight (g)</td>
<td>1,100</td>
<td>1,400</td>
<td>1,300</td>
<td>1,250</td>
<td>1,200</td>
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</table>

### Fieldscopes

<table>
<thead>
<tr>
<th>Model name</th>
<th>PROSTAFF 3 Fieldscope 82</th>
<th>PROSTAFF 5 Fieldscope 82</th>
<th>PROSTAFF 5 Fieldscope 60</th>
<th>PROSTAFF 3 Fieldscope 60</th>
</tr>
</thead>
<tbody>
<tr>
<td>Objective diameter (mm)</td>
<td>82</td>
<td>82</td>
<td>60</td>
<td>60</td>
</tr>
<tr>
<td>Weight (g)</td>
<td>1,650</td>
<td>1,640</td>
<td>1,260</td>
<td>1,250</td>
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</tbody>
</table>

### MONARCH Fieldscope ED50/ED50 A

<table>
<thead>
<tr>
<th>Model name</th>
<th>PROSTAFF 3 Fieldscope</th>
<th>Fieldscope ED50</th>
<th>Fieldscope ED50 A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Magnification (x)</td>
<td>8-24</td>
<td>9-27</td>
<td>10-28</td>
</tr>
<tr>
<td>Angle of view</td>
<td>21-7</td>
<td>16-5</td>
<td>20-6</td>
</tr>
<tr>
<td>Field of view at 1,000m (m) (approx.)</td>
<td>950</td>
<td>860</td>
<td>860</td>
</tr>
<tr>
<td>Exit pupil (mm)</td>
<td>6.7</td>
<td>3.7</td>
<td>3.7</td>
</tr>
<tr>
<td>Relative brightness</td>
<td>4.7</td>
<td>4.7</td>
<td>4.7</td>
</tr>
<tr>
<td>Eye relief (mm)</td>
<td>23</td>
<td>23</td>
<td>23</td>
</tr>
</tbody>
</table>

### Eyepieces

#### Eyepieces for PROSTAFF 3 Fieldscopes

<table>
<thead>
<tr>
<th>Model name</th>
<th>Magnification (x)</th>
<th>Field of view at 1,000m (m)</th>
<th>Angular field of view (Real/degree)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9-27x/27-81x</td>
<td>10-28</td>
<td>2.1 (at 10x)</td>
<td>27.2/9.1</td>
</tr>
<tr>
<td>9-27x/27-81x</td>
<td>12-36</td>
<td>2.1 (at 12x)</td>
<td>27.2/9.1</td>
</tr>
<tr>
<td>10-28x/28-85x</td>
<td>12-36</td>
<td>2.1 (at 12x)</td>
<td>27.2/9.1</td>
</tr>
</tbody>
</table>

#### Eyepieces for PROSTAFF 5 Fieldscopes

<table>
<thead>
<tr>
<th>Model name</th>
<th>Magnification (x)</th>
<th>Field of view at 1,000m (m)</th>
<th>Angular field of view (Real/degree)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9-27x/27-81x</td>
<td>10-28</td>
<td>2.1 (at 10x)</td>
<td>27.2/9.1</td>
</tr>
<tr>
<td>9-27x/27-81x</td>
<td>12-36</td>
<td>2.1 (at 12x)</td>
<td>27.2/9.1</td>
</tr>
<tr>
<td>10-28x/28-85x</td>
<td>12-36</td>
<td>2.1 (at 12x)</td>
<td>27.2/9.1</td>
</tr>
</tbody>
</table>

### Fieldscopes ED50/ED50 A

<table>
<thead>
<tr>
<th>Model name</th>
<th>PROSTAFF 3 Fieldscope</th>
<th>Fieldscope ED50</th>
<th>Fieldscope ED50 A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Magnification (x)</td>
<td>8-24</td>
<td>9-27</td>
<td>10-28</td>
</tr>
<tr>
<td>Angle of view</td>
<td>21-7</td>
<td>16-5</td>
<td>20-6</td>
</tr>
<tr>
<td>Field of view at 1,000m (m) (approx.)</td>
<td>950</td>
<td>860</td>
<td>860</td>
</tr>
<tr>
<td>Exit pupil (mm)</td>
<td>6.7</td>
<td>3.7</td>
<td>3.7</td>
</tr>
<tr>
<td>Relative brightness</td>
<td>4.7</td>
<td>4.7</td>
<td>4.7</td>
</tr>
<tr>
<td>Eye relief (mm)</td>
<td>23</td>
<td>23</td>
<td>23</td>
</tr>
</tbody>
</table>

### Eyepieces for Fieldscopes ED50/ED50 A

<table>
<thead>
<tr>
<th>Model name</th>
<th>Magnification (x)</th>
<th>Field of view at 1,000m (m)</th>
<th>Angular field of view (Real/degree)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9-27x/27-81x</td>
<td>10-28</td>
<td>2.1 (at 10x)</td>
<td>27.2/9.1</td>
</tr>
<tr>
<td>9-27x/27-81x</td>
<td>12-36</td>
<td>2.1 (at 12x)</td>
<td>27.2/9.1</td>
</tr>
<tr>
<td>10-28x/28-85x</td>
<td>12-36</td>
<td>2.1 (at 12x)</td>
<td>27.2/9.1</td>
</tr>
</tbody>
</table>

### Specifications

- **Note:** Because values shown on these charts were designed values rounded up/down, calculation of figures may not match exactly.
- **1** Calculated based on the ISO14132-1:2002 standard.  
  **2** Without caps.  
  **3** Designed reference value at 1,000m (60° field).  
  **4** When the DS (digiscoping) ring attachment is attached.  
  **5** When the TS (turn slide) ring attachment is attached.

### Waterproof performance

- Fieldscope unit: Waterproof and fog-proof (up to 1 m for 10 min., nitrogen gas purged)  
  Note: Above specifications do not include eyepieces.

### Fieldscope ED50/ED50 A

<table>
<thead>
<tr>
<th>Model name</th>
<th>PROSTAFF 3 Fieldscope</th>
<th>Fieldscope ED50</th>
<th>Fieldscope ED50 A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Magnification (x)</td>
<td>8-24</td>
<td>9-27</td>
<td>10-28</td>
</tr>
<tr>
<td>Angle of view</td>
<td>21-7</td>
<td>16-5</td>
<td>20-6</td>
</tr>
<tr>
<td>Field of view at 1,000m (m) (approx.)</td>
<td>950</td>
<td>860</td>
<td>860</td>
</tr>
<tr>
<td>Exit pupil (mm)</td>
<td>6.7</td>
<td>3.7</td>
<td>3.7</td>
</tr>
<tr>
<td>Relative brightness</td>
<td>4.7</td>
<td>4.7</td>
<td>4.7</td>
</tr>
<tr>
<td>Eye relief (mm)</td>
<td>23</td>
<td>23</td>
<td>23</td>
</tr>
</tbody>
</table>

### Eyepieces for Fieldscopes

- **PROSTAFF 3 Fieldscopes**
  - 9-27x/27-81x
  - 10-28x/28-85x

- **PROSTAFF 5 Fieldscopes**
  - 9-27x/27-81x
  - 10-28x/28-85x

### Notes

- **1** These eyepieces are not for Fieldscopes ED78 series, ED I series, ED II series, ED III series, ED IIIA series and ED82 series.
- **2** These eyepieces are not for Fieldscopes ED78 series.
- **3** Designed field of view is calculated based on the ISO14132-1:2002 standard. For details, see p 54.
### Laser Rangefinders

<table>
<thead>
<tr>
<th>Model name</th>
<th>MONARCH 3000 STABILIZED</th>
<th>PROSTAFF 7i</th>
<th>PROSTAFF 3i</th>
<th>ACULON Forestry Pro</th>
<th>COOLSHOT PRO STABILIZED</th>
<th>COOLSHOT 40i</th>
<th>COOLSHOT 40</th>
<th>COOLSHOT 20</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Measurement range</strong>&lt;sup&gt;*&lt;/sup&gt;</td>
<td>7.3-2,740m/8-3,000 yd.</td>
<td>7.3-1,200m/8-1,300 yd.</td>
<td>7.3-590m/8-650 yd.</td>
<td>Distance: 10-500m/11-550 yd./33-999 ft.</td>
<td>Distance: 10-500m/11-550 yd./33-999 ft.</td>
<td>Distance: 10-500m/11-550 yd./33-999 ft.</td>
<td>Distance: 10-500m/11-550 yd./33-999 ft.</td>
<td>5-500m/6-550 yd.</td>
</tr>
<tr>
<td><strong>Distance display/increment</strong></td>
<td>Actual distance: every 0.1 m/yd.</td>
<td>Actual distance: every 0.1 m/yd. (shorter than 1,000 m/yd.)</td>
<td>Actual distance: every 1 m/yd. (1,000 m/yd. and over)</td>
<td>Actual distance: every 0.1 m/yd.</td>
<td>Actual distance: every 0.5 m/yd., 1 ft. (shorter than 100 m/yd./ft.)</td>
<td>Actual distance: every 1 m/yd./ft. (100 m/yd./ft. and over)</td>
<td>Actual distance: every 0.1 °</td>
<td>Actual distance: every 1 °</td>
</tr>
<tr>
<td><strong>Accuracy</strong>&lt;sup&gt;*&lt;/sup&gt; (actual distance)</td>
<td>±0.50 m/yd. (shorter than 700 m/yd.)</td>
<td>±1.00 m/yd. (700 m/yd. and over, shorter than 1,000 m/yd.)</td>
<td>±1.50 m/yd. (1,000 m/yd. and over)</td>
<td>±0.5 m/yd. (shorter than 600 m/yd.)</td>
<td>±1 m/yd. (600 m/yd. and over, shorter than 1,000 m/yd.)</td>
<td>±1.5 m/yd. (1,000 m/yd. and over)</td>
<td>±0.75 m/yd. ±1 m/yd. (shorter than 100 m/yd.)</td>
<td>±2 m/yd. (100 m/yd. and over)</td>
</tr>
<tr>
<td><strong>Finder</strong></td>
<td>Magnification (x) 6</td>
<td>Magnification (x) 6</td>
<td>Magnification (x) 6</td>
<td>Magnification (x) 6</td>
<td>Magnification (x) 6</td>
<td>Magnification (x) 6</td>
<td>Magnification (x) 6</td>
<td>Magnification (x) 6</td>
</tr>
<tr>
<td></td>
<td>Effective objective diameter (mm) 21</td>
<td>Effective objective diameter (mm) 21</td>
<td>Effective objective diameter (mm) 21</td>
<td>Effective objective diameter (mm) 21</td>
<td>Effective objective diameter (mm) 21</td>
<td>Effective objective diameter (mm) 21</td>
<td>Effective objective diameter (mm) 21</td>
<td>Effective objective diameter (mm) 20</td>
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<td></td>
<td>Actual field of view (˚) 7.5</td>
<td>Actual field of view (˚) 7.5</td>
<td>Actual field of view (˚) 6.0</td>
<td>Actual field of view (˚) 6.0</td>
<td>Actual field of view (˚) 6.0</td>
<td>Actual field of view (˚) 6.0</td>
<td>Actual field of view (˚) 6.0</td>
<td>Actual field of view (˚) 6.0</td>
</tr>
<tr>
<td></td>
<td>Exit pupil (mm) 3.5</td>
<td>Exit pupil (mm) 3.5</td>
<td>Exit pupil (mm) 3.3</td>
<td>Exit pupil (mm) 3.3</td>
<td>Exit pupil (mm) 3.3</td>
<td>Exit pupil (mm) 3.3</td>
<td>Exit pupil (mm) 3.3</td>
<td>Exit pupil (mm) 3.3</td>
</tr>
<tr>
<td></td>
<td>Eye relief (mm) 18.0</td>
<td>Eye relief (mm) 18.3</td>
<td>Eye relief (mm) 17.4</td>
<td>Eye relief (mm) 17.4</td>
<td>Eye relief (mm) 17.4</td>
<td>Eye relief (mm) 17.4</td>
<td>Eye relief (mm) 17.4</td>
<td>Eye relief (mm) 16.7</td>
</tr>
<tr>
<td><strong>Dimensions (L x H x W) (mm)</strong></td>
<td>96 x 74 x 42</td>
<td>113 x 70 x 39</td>
<td>112 x 70 x 36</td>
<td>91 x 73 x 37</td>
<td>130 x 69 x 45</td>
<td>96 x 74 x 42</td>
<td>112 x 70 x 36</td>
<td>91 x 73 x 37</td>
</tr>
<tr>
<td><strong>Weight (excluding battery) (g)</strong></td>
<td>180</td>
<td>175</td>
<td>160</td>
<td>125</td>
<td>210</td>
<td>170</td>
<td>160</td>
<td>125</td>
</tr>
<tr>
<td><strong>Power source</strong></td>
<td>CR2 lithium battery x 1 (DC 3V)</td>
<td>CR2 lithium battery x 1 (DC 3V)</td>
<td>CR2 lithium battery x 1 (DC 3V)</td>
<td>CR2 lithium battery x 1 (DC 3V)</td>
<td>CR2 lithium battery x 1 (DC 3V)</td>
<td>CR2 lithium battery x 1 (DC 3V)</td>
<td>CR2 lithium battery x 1 (DC 3V)</td>
<td>CR2 lithium battery x 1 (DC 3V)</td>
</tr>
<tr>
<td><strong>Environmental conditions</strong></td>
<td>RoHS, WEEE</td>
<td>RoHS, WEEE</td>
<td>RoHS, WEEE</td>
<td>RoHS, WEEE</td>
<td>RoHS, WEEE</td>
<td>RoHS, WEEE</td>
<td>RoHS, WEEE</td>
<td>RoHS, WEEE</td>
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</tbody>
</table>

<sup>*</sup>The specifications of these products may not be achieved depending on the target object's shape, surface texture and nature, and weather conditions. * Under Nikon's measurement conditions.
Nikon is constantly developing new ways to prevent environmental pollution and ensure a healthier ecosystem. Under the Nikon Basic Policy for Green Procurement — a diverse range of activities designed to reduce the environmental impact of our products — we employ materials, parts, and packaging items produced with special concern for the environment. We also cut waste by implementing environmental policies that extend the life of our products and simplify repairs, while minimising energy consumption through more efficient use of power. At Nikon, we’re wholly committed to developing innovative and exciting eco-friendly products for our precious world.