No one knows more about optics than Canon. So in creating the binocular line, Canon drew on its vast optical expertise to incorporate the advanced technologies found in their cameras and lenses, maximizing clarity and enhancing performance. That’s why Canon offers you features like highly sophisticated engineering, superior lenses and Image Stabilizer technology.

Each model has been meticulously engineered for comfort and convenience in real world conditions. Since they are designed to be easy to hold and operate, the lineup features unsurpassed ergonomics, and many models are equipped with special slip-free grips. Available in a full range of sizes and magnifications, there’s a Canon binocular for every need, so whether you are whale watching or following a horse race, Canon binoculars let you view your subject with unrivalled precision and comfort.

Built to the world’s most exacting standards.
Focus and follow. It isn't always convenient to use a tripod — especially if you or your subject is moving. With Canon's IS binocular models there's no need for additional equipment. For binoculars with magnification powers of 10x, 12x, 15x and 18x, Canon offers an Image Stabilizer system utilizing a Vari-Angle Prism (VAP). This system has two sensors — one vertical and another horizontal — that detect motion as well as a microprocessor that adjusts the Vari-Angle Prism on each side, in a bellows-type fashion, according to the amount of binocular shake detected. This provides instant adjustment of the refraction angle to compensate for motion. So what you see through the lenses is absolutely steady — even when you're not.

The legendary L Lens. The bright red line engraved on the lens barrel is the signature of the Canon L Lens. L Series Lenses are on a level above the real, possessing groundbreaking image performance, outstanding operability and resistance to weather and aging. Canon's L Series Lenses are well known by professional photographers around the world for their innovative optical design, exceptional quality and brilliant clarity. Canon has equipped its new top-of-the-line model, the 10x42LIS WP, with extraordinary L-series technology. Manufactured to provide superior image quality throughout the entire viewing area, two Ultra-low Dispersion (UD) elements on each side give you a brighter, richer view than can be achieved with conventional optics found in ordinary binoculars. With them, you'll see more of your subject, more clearly.

Canon's remarkable Image Stabilizer Technology. Minimize shaking, maximize viewing. Shaking occurs naturally when you hold binoculars for an extended period of time. Wind, muscle fatigue and even excitement can contribute to “binocular shake.” The more powerful the binoculars, the more pronounced the shake appears. It’s tiring on your eyes, it’s distracting, and it makes getting a good, sharp focus simply impossible. To solve this common problem, many Canon binoculars are equipped with Image Stabilizer (IS) technologies. Originally developed for Canon's high performance cinema cameras, these IS technologies have been brilliantly adapted specifically for Canon's binocular line.

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A breakthrough in binocular design, Canon’s new model is the world’s brightest binocular with image stabilization (as of January 1, 2005) and is the first completely waterproof model in the Canon IS binocular line-up. The 10x42L IS WP is equipped with Canon’s high-performance L-series optics that feature Ultra-low Dispersion (UD) lens elements on each side. The 4.2mm exit pupil diameter delivers the brightest optics in the Canon IS series. With an extra wide 65˚ apparent angle-of-view, these binoculars qualify as wide angle instruments, allowing you to see more of your subject. Doublet Field Flattener Lenses offer superior edge-to-edge sharpness. A metal coating prevents fogging, and the ribbed surface ensures a secure grip. These all weather models set a new performance standard. With one-touch Image Stabilizer technology, they instantly compensate for “binocular shake.” Large-diameter 50mm front objective lenses accommodate a wide range of activities — from sports to astronomical observation. A multi-coated Ultra-low Dispersion (UD) lens element in each objective section delivers outstanding image contrast, sharpness and color clarity. To accommodate eyeglass wearers, 15mm Long-Eye Relief provides greater viewing comfort, and the ergonomic design makes them very easy to hold. An optional anti-fog eyepiece prevents condensation and fogging in foul weather.
Light, sleek and powerful, these advanced binoculars feature Canon’s celebrated Image Stabilizer technology to keep the image steady even when you’re not. High magnification multi-coated lenses deliver a wide, extra-bright field-of-view. The Doublet Field Flattener keeps images sharp from edge-to-edge. The advanced power-saving technology coupled with optional lithium AA batteries provide up to 12 hours of continuous use. All Canon binoculars feature a center focus for easy one-handed operation, and the 12x36 IS II has a water-resistant non-slip rubber coating that assures secure handling in a wide range of environments.

Light in weight but powerful in performance, these well-designed binoculars offer Canon’s superb Image Stabilizer technology to instantly counteract “binocular shake.” The Doublet Field Flattener provides sharp, distortion-free images from edge-to-edge. Canon’s Super Spectra Multi Coating assures superior contrast so you see everything in the best possible light. A non-slip rubber coating makes the 10X30 IS easy to hold even when you’re wearing gloves or in a damp environment. There’s also Long-Eye Relief to provide greater comfort for those who wear eyeglasses.
With its 0.8mm objective lens and 19mm exit pupil diameter—the largest among Canon binoculars—the 7x42 A WP offers an exceptionally bright image. Plus, you get powerful Aspherical optics and an easy-to-hold, waterproof design.

The 8x32 WP offers a compact roof-prism design with a 60° apparent angle-of-view. Other features include its nitrogen-filled waterproof construction and a Field Flattener lens in each eyepiece.

Ultra compact and lightweight, this model features Canon’s high-efficiency Tilt-System Image Stabilization that combines stability with sleek styling. They’re the world’s smallest, lightest and most affordable image stabilized binoculars (as of January 1, 2005). An extremely compact ergonomic design makes the 8x25 IS comfortable to carry and even easier to use. Canon’s all-glass optics with Super Spectra Multi Coating assure outstanding sharpness, clarity and contrast. And these binoculars are not only user-friendly, they’re also environmentally friendly — only lead-free glass is used in the optical system.

The smallest Canon binocular, the 7x17 FC features retracting lens barrels, a sliding eye-adjustment mechanism and lenses with Canon’s Super Spectra Multi Coating. It also provides close focusing at distances down to five feet.

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a 6.5˚ field-of-view appears to have a
65˚ range; qualifying it as a wide angle
instrument. The greater the apparent
angle-of-view, the easier it is for you
to pinpoint and track your subject. The
Canon binocular line offers models with
apparent angles-of-view that range from
45˚ to 67˚.

Differences in brightness
The brightness of an image is associated
with the amount of incidental light that
is reflected by the lens. Uncoated lenses
can reflect away as much as 8% of
incoming light per lens element —
resulting in a dim image. For this reason
Canon employs Super Spectra Multi
Coating to enhance brightness.

Since many things contribute to the
brightness of an image, be sure to
consider the following factors as you
compare binoculars:

Exit pupil diameter
The size of the image that emerges at
the binocular’s eyepiece impacts image
brightness. In dimly lit settings, a large
exit pupil, for example 4.2mm found on
the 10x42L IS WP , delivers brighter
results. For daytime viewing, binoculars
with exit pupil sizes between 2.5 and
3mm are often sufficient.

Objective element diameter
This refers to the front lens element
measured in mm. All things being equal,
the larger the lens in front of the
binocular, the more light it can take in
and the brighter the viewing image will
be. The 18x50 IS AW and 15x50 IS AW
have the largest objective lenses in
Canon’s binocular lineup.

Twilight coefficient
One difficulty with using traditional
numerical ratings to determine a
binocular’s suitability for low-light
viewing is that higher magnification
binoculars, even those with smaller exit
pupil size or “relative brightness” ratings,
can often reveal better detail in low light
because of their higher magnification.
Twilight Coefficient or Twilight factor
accounts for the magnifying power of a
pair of binoculars, and can be a useful
rating—especially if viewing at dawn or
dusk, or deep shade viewing conditions.

Judging quality
When evaluating binoculars brands and
models, here are few things to look for:

Alignment
If the parallel tubes of the binocular are
out of alignment due to a manufacturing
defect or accident, you’ll see two similar
but separate images. There is no way to
repair this problem and it renders the
binocular virtually useless.

Color
Focus the binocular on a white object.
Check two things: first, that the white
object appears a faithful white tone

Find the binoculars that fit your needs. Waterproof and all weather
Several models in the Canon binocular line are waterproof or water-resistant. Designed to be used outdoors and on the
water, these models are built to withstand a broad range of conditions including rain, humidity and storms. The new Canon
10x42L IS WP offers Canon’s highest standard of waterproof performance—it can be completely submerged.

Lead-free optics
Canon uses environmentally friendly
lead-free glass in its optical systems. This creates the high quality performance you demand from your
binocular while protecting the environment from unnecessary harm.

The importance of objective lens diameter
Binoculars are described by the power of their magnification (10x, 15x, 12x,
et al.) combined with the diameter of their
objective lenses (50mm, 42mm, 36mm,
et al.). The greater the magnification power,
the larger your viewing subject will appear
in the objective lens as you look through the binoculars.

For instance, if you use the 10x42L IS WP
to track a subject 100 yards away, it appears to be the same size as a subject
located just 10 yards away seen without binoculars. All things being equal,
the larger the diameter of the objective lens,
the more light it can admit for brighter,
more detailed images. So binoculars like
the 10x42L IS WP, 15x50 IS AW, and
13x50 IS AW produce particularly bright,
clear images.

The key to Field-of-View
The field-of-view is the area you see when
you look through the binocular. The higher
the magnification power, the narrower
the field-of-view. The apparent angle-of-view is the product of the magnification times
the real field-of-view. So in the case of the
10x42L IS WP , the 10x magnification with
a 6.5˚ field-of-view appears to have a
65˚ range; qualifying it as a wide angle
instrument. The greater the apparent
angle-of-view, the easier it is for you
to pinpoint and track your subject. The
Canon binocular line offers models with
apparent angles-of-view that range from
45˚ to 67˚.

When bright...

When dark....

Viewer’s pupil
diameter is 3.0mm.
Pupil dilates
as wide as 7.0mm.
HOW TO USE BINOCULARS

This is the proper way to adjust a binocular for outdoor use.

1. Look through the binocular, and adjust the spread of the apparent field until you see one circle image.
2. Close your right eye and look through the left eyepiece, use the focusing ring to focus sharply on the subject.
3. Close your left eye and look through the right eyepiece. Do not turn the center focusing ring any further. Turn only the right-side eyepiece ring as necessary.

Focusing with the diopter adjustment rings on the eyepieces will make it easier to readjust the binoculars after someone else has used them. Remembering the readings of the diopters will make it unnecessary.

Finite Focus: Images on the edge of the circle are blurred. The tower is slanted and has a spool-shaped effect. The image near the edge of the circle is blurred. The image appears blurry.

Chromatic Aberration: Without Anti-Fog Eyepiece AE-B1, Most Canon binoculars use Field Flattener and Aspherical lenses.

Anti-Fog Eyepiece AE-B1

Designed specifically for the 10x42L IS WP and the 15x50 IS AW binoculars, these eyepieces prevent condensation and fogging. Useful in the 15x50 IS AW binocular, these eyepieces prevent condensation and fogging.

INTELLIGENT AUTOFOCUS SYSTEM

Canon’s outstanding optics, including Aspherical lens elements, correct for linear distortion.

No central dot... Only the outer edge of the field is visible.

Center-Focusing

Excellent binoculars will render parallel lines in a subject as perfectly straight as they appear to the naked eye. It’s easy to test with a building or other flat subject with pronounced horizontal or vertical lines by observing whether lines near the periphery remain sharply defined in Canon's outstanding optics, including Aspherical lens elements, correct for linear distortion.

In addition, the design of the diopters not only makes it easier to focus the binocular, but reducesatter with pronounced horizontal or vertical lines. To observe whether lines near the periphery remain sharply defined in Canon's outstanding optics, including Aspherical lens elements, correct for linear distortion.

Nomenclature

Antivibe

Without Anti-Fog Piece

Objective lens

Without Anti-Fog Piece

Focus ring

Antivibe

Without Anti-Fog Piece

Clip eyepiece

Anti-Fog Eyepiece AE-B1

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