Choosing the right binoculars

**Magnification & Aperture**

A larger aperture lets in more light, allowing a brighter image. Binoculars with a smaller aperture are more compact.

Comparision by aperture for binoculars with 16x magnification

- Large aperture (16×70)
- Small aperture (16×28)

**Magnification, Field of View & Image Vibration**

A high magnification binocular allows the user to see an object from a long distance. It also causes a narrow field of view (FOV). The visible area seen through the binoculars. A narrow FOV is more prone to image vibration, and makes it harder to spot targets. To spot a target, start by using a binocular with a lower magnification and a wider FOV. Our wide-angle 10x50 FMT model can give a better FOV, while the TECHNO-STABI Series can reduce vibration.

**Symbols of features**

- **CF: Center Focus**
  The focus of both the left and right side can be adjusted by turning one dial.

- **IF: Individual Focus**
  The focus is adjusted by turning the dioptic adjustment rings on each eyepiece.

- **Field flattener lenses**
  These lenses provide a sharp view with no distortion, all the way to the corners.

- **ED lenses**
  These lenses have special glass with a low refractive index, reducing chromatic aberration for a clear view.

- **EBC Multi-coating**
  This coating increases light transmittance for bright, natural color reproduction.

- **Wide-angle type**
  These binoculars have a larger angle to capture a wider apparent field of view.

- **Rubber coating**
  The body is coated in rubber, making the binoculars easier to hold.

- **Waterproof**
  These binoculars are air-tight and rubber-pivoted.

- **Image Stabilization**
  Fujinon’s unique stabilization technology minimizes vibration to secure a clear image at high magnification.

- **Compass**
  The compass is used to identify direction. The internal scale can be used to measure distance or target size.

**Binoculars to suit your needs**

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<tr>
<td>Stargazing and nature observation</td>
<td>Water-proof Image stabilization</td>
<td></td>
</tr>
<tr>
<td>Professional Observation/ Surveillance</td>
<td>Large diameter, brightness Water-proof Wide field of view</td>
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</tbody>
</table>

**FUJINON Binoculars**

A legacy that strives for professionalism and advancement in technology.

Since the sale of our very first Fujinon Binocular in 1947, the superior optical performance of our products has earned us loyal and dedicated customers. Our professional users chase schools of fish from atop rough ocean waves during the day, and chase comets in the sky at night. Our products provide the optical performance, reliability, durability, and user-friendly features necessary to get the job done.

Fujinon Binoculars combine the latest in electronic and optical technology to provide vivid, bright, and precise optics.
The TS-X comes with our strongest vibration-correction system for a steady view in bumpy conditions.

- Class-Leading image stabilization* at ±6°
  Provides a stress-free experience in cars, boats, and other bumpy transportation.
- The latest image stabilization system works at high magnification levels, making it easy to adjust the focus without losing sight of your target.
- Enables a steady image at 14x magnification without a tripod - impossible in binoculars without vibration correction.
- Waterproof and user-friendly design, making these binoculars the perfect companion in a wide range of settings that include marine sports, safaris, professional fishing, and sailing.

*According to September 2019 research conducted by Fujifilm on vibration-correcting binoculars.

NEW

TS-X 1440

Bundled items: Lens cap, eyepiece caps, case, strap and 4 AA alkaline batteries.

The TECHNO-STABI Compact series comes with a high magnification vibration correction feature, providing a steady image at 12x and 16x.

- Compact and lightweight with a stabilization correction of ±3 degrees.
- Ideal in a variety of settings, including concerts, theme parks, and bird-watching.
- Stabilization activates with a shift switch, providing effortless control during prolonged use.
- Provides sharp image at a high magnification without the use of a tripod.

NEW

TS12×28

TS16×28

Bundled items: Eyepiece cap, soft-case, neckstrap and CR2 lithium battery.

The TECHNO-STABI Compact series comes with a high magnification vibration correction feature, providing a steady image at 12x and 16x.

- Compact and lightweight with a stabilization correction of ±3 degrees.
- Ideal in a variety of settings, including concerts, theme parks, and bird-watching.
- Stabilization activates with a shift switch, providing effortless control during prolonged use.
- Provides sharp image at a high magnification without the use of a tripod.

NEW

TS12×28

TS16×28

Bundled items: Eyepiece cap, soft-case, neckstrap and CR2 lithium battery.
The apex of optical performance and durability in Fujinon Binoculars

**FMT series**

- Fujinon Binocular’s flagship model with outstanding optical performance and durability.
  - Contains Fujinon’s proprietary field flattener lens for a sharp field of view with no distortion throughout the field of view.
  - All lenses and prisms boast high-quality EBC multi-coating, increasing light permeability for bright, natural color reproduction.
  - Robust body with airtight, waterproof structure, enabling use in harsh conditions from -20°C to +50°C.
  - Long eye relief design with a maximum length of 23mm, enabling prolonged use without straining the eyes, as well as providing a complete field of view even when wearing glasses.
  - Available in an embossed model designed to fit securely in your hands and a rubber model which prevents slipping even when wet.
  - The 10x50 model provides a wide, bright view even at high magnification.
  - The 7x50 and 10x50 models are optimum for astronomical use due to their bright optics and large field of view.
  - The 7x50FMTTRC-SX has a built-in compass with maximum error of ±0.5°. The scale can be used to identify the object’s direction, measure distance, and determine the size of a target object. The compass is global, accurately measuring direction in both northern and southern hemispheres.

- **7×50FMT-SX** (Embossed Type)
- **7×50FMTR-SX** (Rubber Type)
- **7×50FMTRC-SX** (Rubber Type with Compass)
- **10×50FMT-SX** (Embossed Type)
- **10×50FMTR-SX** (Rubber Type)
- **10×70FMT-SX** (Embossed Type)
- **16×70FMT-SX** (Embossed Type)

**MT series**

- Excellent optical performance with professional-grade technology.
  - All lenses and prisms boast high-quality EBC multi-coating, increasing light permeability for bright, natural color reproduction.
  - Highly waterproof and extremely durable body, enabling use in harsh conditions from -20°C to +50°C.
  - Available in an embossed model designed to fit securely in your hands and a rubber model which prevents slipping even when wet.
  - The 7x50MTRC-SX has a built-in compass with maximum error of ±0.5°. The scale can be used to identify the object’s direction, measure distance, and determine the size of a target object. The compass is global, accurately measuring direction in both northern and southern hemispheres.

- **7×50MT-SX** (Embossed Type)
- **7×50MTR-SX** (Rubber Type)
- **7×50MTRC-SX** (Rubber Type with Compass)
- **10×70MT-SX** (Embossed Type)

<table>
<thead>
<tr>
<th>Model</th>
<th>Magnification</th>
<th>Objective lens diameter</th>
<th>Waterproof coating</th>
<th>EBC coating</th>
</tr>
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<tbody>
<tr>
<td>7x50FMTRC-SX</td>
<td>7x50MTRC-SX</td>
<td>7x50FMTTRC-SX</td>
<td>7x50MTRC-SX</td>
<td>7x50FMTRC-SX</td>
</tr>
</tbody>
</table>

**Bundled Items**

- Objective lens caps, eyepiece rainguard, soft case, and neck strap.

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*1 7x50MT-SX and 7x50FMTR-SX models are available with rubber-coated body.
*2 7x50MTRC-SX has a built-in compass.
*3 Only the 7x50FMTRC-SX model is available with an in-built compass.
Using the Compass

There are two main ways of using the compass built into the 7x50 compass type binoculars.

- **Identifying direction of travel**
  You can work out your current direction of travel relative to a buoy by calculating the difference between the number displayed when looking at the buoy and the number displayed when looking in the direction of the bow. In the example on the right, the compass reads 270° when looking at the buoy and 240° when facing the bow, indicating that the boat is traveling 30° to the left of the buoy.

- **Measuring size and distance**
  If you know either the size or distance of a target, you can roughly calculate the other. The lighthouse in this example is 10m in height and the scale is showing 40 mils. The approximate distance can be calculated with a simple equation.
Unrivaled optics for those that need more than this world can offer

**LB150 series**

Fujinon’s world-class large binoculars provide powerful performance at night with outstanding resolution and light gathering ability.

- The large aperture 150mm objective lenses ensure excellent visibility at dusk or night.
- High-quality EBC multi-coating for high resolution and sharp image throughout the field of view.
- In addition to their airtight, waterproof structure, these binoculars are corrosion resistant, making them durable enough to withstand temperatures ranging from -20°C to +50°C.
- The 25×150ED-SX, 40×150ED-SX and 25×150EM-SX have special ED lenses to reduce color aberration for a clear picture even at high magnification.
- Fujinon recommends the use of dedicated mount and tripod.
- Small industrial-use binoculars (15×80MT-SX) are also available.

- **25×150MT-SX**
- **25×150ED-SX** (made to order)
- **40×150ED-SX** (made to order)
- **25×150EM-SX** (made to order)
- **15×80MT-SX**

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*Only the 25×150ED-SX, 40×150ED-SX and 25×150EM-SX have ED lenses.\
Screwed lens: Objective lens cap and winged eyecup.
The gyroscopic stabilization of the STABISCOPE series absorbs the greatest vibrations in the harshest conditions.

- The gyro effect created by the flywheel absorbs the vibration up to ±5° like that of moving vehicles, helicopters and boats and maintains a steady view.
- All lenses and the prisms have a high-quality EBC multi-coating, increasing light permeability for bright, natural color reproduction.
- Strong and corrosion resistant for use in harsh conditions from -20°C to +50°C.
- Airtight waterproof structure is filled with dry nitrogen gas to prevent fogging inside.
- Can be used upside down, allowing the binoculars to be held in either hand.

**STABISCOPE S1240**

**STABISCOPE S1640**

- Bundled items: Neck strap, Wristband, Carry case, DC regulator, input and output cords (for DC regulator), and 4 AA batteries.
Our high-performance FMT model with the latest infrared image intensifier tubes for night-time observation.

- Simply swap the standard eyepiece for the night vision eyepiece with image intensifier tubes (IIT) for a bright field of view that makes it easy to see your subject at night.
- Contains Fujinon’s proprietary field flattener lens for a bright, sharp field of view and accurate coloring throughout the entire field of view.
- All lenses and the prisms have a high-quality EBC multi-coating, increasing light permeability.
- Strong, corrosion resistant aluminum body with non-slip rubber coating.
- Airtight waterproof structure for worry-free use near water and in humid conditions.

**8×50FMTR-D/N (made to order)**

- Objective lens cap, eyepiece cap, hard case, strap and 2 CR123A lithium batteries.
- Simply swap the standard eyepiece for the night vision eyepiece with infrared image intensifier tubes (IIT) for a bright field of view that makes it easy to see your subject at night.
- Contains Fujinon’s proprietary field flattener lens for a bright, sharp field of view and accurate coloring throughout the entire field of view.
- All lenses and the prisms have a high-quality EBC multi-coating, increasing light permeability.
- Strong, corrosion resistant aluminum body with non-slip rubber coating.
- Airtight waterproof structure for worry-free use near water and in humid conditions.

**Darkness and vibration pose no obstacle. These highly versatile binoculars can be used in a wide range of settings.**

- Simply swap the standard eyepiece for the night vision eyepiece with infrared image intensifier tubes (IIT) for a bright field of view that makes it easy to see your subject at night.
- Vibration-correcting and night vision functionality provide powerful performance for locating finding and monitoring targets from a boat or road vehicle, particularly at night.
- A high-speed built-in gyro motor corrects vibration in a wide range of situations, providing a clean field of view for easy use over long periods.
- All lenses have an EBC multi-coating for high permeability.
- Strong and corrosion resistant enough for use in harsh conditions from -20°C to +50°C.
- Airtight waterproof structure filled with dry nitrogen gas to prevent internal fogging.

**STABISCOPE S1240-D/N (made to order)**

- Neck strap, hand band, carry case, DC regulator, input and output cords (for DC regulator), and 4 AA Alkaline batteries.

With a large aperture of 150mm, the objective lenses in this series provide outstanding light gathering ability and cutting-edge night vision, enabling users to monitor wide areas day and night.

- Simply swap the standard eyepiece with the night vision eyepiece equipped with infrared image intensifier tubes (IIT) of view that makes it easy to spot your subject at night.
- All lenses and the prisms have a high-quality EBC multi-coating, increasing light permeability for bright, natural color reproduction.
- ED objective lenses are used to correct color aberration that is usually difficult to prevent at high magnification and achieve the sharpest colors possible.
- Rust and corrosion resistant for use in wide temperature range from -20°C to +50°C. Airtight waterproof structure.

**25×150ED-D/N (made to order)**

- Objective lens caps, horn-rims for the eyepiece and CR123A lithium battery.

**STABISCOPE S1240-D/N (made to order)**

- Neck strap, hand band, carry case, DC regulator, input and output cords (for DC regulator), and 4 AA Alkaline batteries.
**Accessories**

### TS-X 1440/STABISCOPE series
- TS-X 1440/S1240/S1640 Polarizing filter (1pc)
- TS-X 1440/S1240/S1640 Orange filter (1pc)
- S1240/S1640 DC regulator

### FMT/MT series
- 16×70FMT Polarizing filter (1pc)
- 16×70FMT Nebula filter (1pc)
- 7×50FMT/10×70FMT Polarizing filter (1pc)
- 7×50FMT/10×70FMT Nebula filter (1pc)

Please refer to the correspondence table below to find filters for your binoculars.

**Filter to model correspondence table**

<table>
<thead>
<tr>
<th>Model</th>
<th>FMT-SX</th>
<th>FMT-SX</th>
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<tr>
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</table>

### DAY/ NIGHT series
- Water proof case for STABISCOPE S1240/S1640
- Water proof case for 8x50FMTR-D/N

### LB150 series
- LB150 Polarizing filter (1pc)
- LB150 Nebula filter (1pc)
- Mount for LB150 Height: 53cm Weight: 8.3kg
- Tripod for LB150 Height: 80-135cm Weight: 11kg
- Aluminium case for LB150 Size: 100x54x30cm Weight: 20kg
- Mount for 15×80 Height: 29.5cm Weight: 2.4kg

*Binoculars are not included*
## Specifications

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<th>FMT</th>
<th>MT</th>
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<td>TS16×28</td>
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<td>Magnification</td>
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<table>
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<th>LB150</th>
<th>STABISCOPE</th>
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<td>Magnification</td>
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<td>-20°C - +50°C</td>
<td>-20°C - +50°C</td>
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</table>

1. Apparent field of view based on ISO 11201-2008
2. MOC may differ depending on the viewer's eye in case of individual focus.
3. Do not insert C in case of water resistant.

**Note:**
- **TS-X 1440**
- **TS12×28**
- **TS16×28**
- **7×50FMT-SX**
- **7×50FMTCR-SX**
- **10×50FMT-SX**
- **10×70FMT-SX**
- **16×70FMT-SX**
- **7×50MT-SX**
- **7×50MTR-SX**
- **7×50MTRC-SX**
- **10×70MT-SX**
- **MARINER**
- **LB150**
- **STABISCOPE**
- **DAY/NIGHT**