



The new standard in optics

FUJINON

Binoculars Catalog 2019





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.

▶ Choosing the right binoculars

Magnification & Aperture

16 × 50

Magnification

Aperture = diameter (mm) of the object lens

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

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.

Comparison by aperture for binoculars with 16x magnification



Large aperture (16×70)



Small aperture (16×28)



Provides a wide, bright view.



Vibration-Correction can be switched on for a steadier image.

▶ 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 airtight and nitrogenpurged.



Image Stabilization

Fujinon's unique stabilization technology minimizes vibration to secure a clear image at a 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

Use	Point to choose	Series					
		TECHNO-STABI					
		TS-X 1440	TS12×28 TS16×28	MARINER	FMT/MT	LB150	STABISCOPE
Trip/Outdoor Theater/Concert Sports	Light weight						
Bird watching	Light weight Wide field of view High magnification						
Marine sports Safari Tour	Water-proof Image stabilization						
Stargazing and nature observation	Large diameter, brightness Water-proof Wide field of view						
Professional Observation/ Surveillance	Large diameter, brightness Water-proof Durability						

Proven Performance and Image Stabilization

TECHNO-STABI series



The TS-X comes with our strongest vibration-correction system for a steady view in bumpy conditions.

- Class-Leading image stabilization* at $\pm 6^\circ$
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.

► TS-X 1440



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



TS-X 1440 (14x40)

TS-X

NEW

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.

► TS12x28

► TS16x28



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



NEW

TS12x28

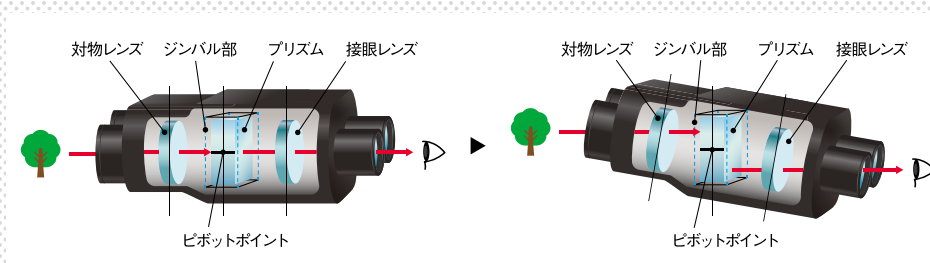


NEW

TS16x28

The world's first electronic gyro stabilizing system for binoculars

The erect prism in the gimbal system is constantly stabilized when the electronic gyro sensor detects vibration, providing vibration correction at a wider range of angles than any other system.



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 7x50FMTRC-SX has a built-in compass with maximum error of $\pm 0.5^\circ$. 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)**



*1 10x50FMT-SX and 10x50FMTR-SX are wide-angle models.
*2 Only 7x50FMTR-SX, 7x50FMTRC-SX and 10x50FMTR-SX models are available with a rubber coating.
*3 Only the 7x50FMTRC-SX model is available with an in-built compass.

Bundled items: Objective lens covers, eyepiece rainguard, soft case, and neck strap.



7×50FMT-SX
(Embossed Type)



7×50FMTRC-SX
(Rubber Type with
Compass)



16×70FMT-SX
(Embossed Type)

The choice of professionals

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 $\pm 0.5^\circ$. 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)**



*1 7x50MTR-SX and 7x50MTRC-SX models are available with rubber-coated body.
*2 7x50MTRC-SX has a built-in compass.

Bundled items: Objective lens caps, eyepiece rainguard, softcase and neck strap.

A Guide to Model name

7 × 50 F M T R C - S X

Objective lens diameter
Magnification
Field flattener lens
Waterproof
Rubber coating
Built-in compass
EBC coating



7×50MT-SX
(Embossed Type)



7×50MTRC-SX
(Rubber Type with
Compass)

Quality and afford-ability

MARINER series

Lightweight, airtight and waterproof with specifications designed for serious users. This series provides a bright image and strong performance for those that demand it.

- Designed for use on the water, with an airtight, waterproof structure filled with nitrogen gas. Thanks to their polycarbonate body, these binoculars are lightweight and dependable.
- The large 50mm objective lenses let in a copious amount of light, making it easy to see your target object.
- Designed with comfortable 18mm long eye relief for easy viewing with minimal eye strain. The long eye relief also allows a user with glasses to have full visibility of the field of view.
- The 7x50WPC-XL has a high-precision built-in compass with maximum error of $\pm 0.5^\circ$. The scale can be used to identify the object's direction, measure distance, and determine the size of the object. The compass is global, accurately measuring direction in both northern and southern hemispheres. The compass has an internal light to view scale during the night.

► 7×50WPC-XL

► 7×50WP-XL



*Only the 7x50WPC-XL model has a built-in compass.

Bundled items: Objective lens caps, eyepiece rainguard, and flotation neck strap.



7×50WPC-XL



7×50WP-XL

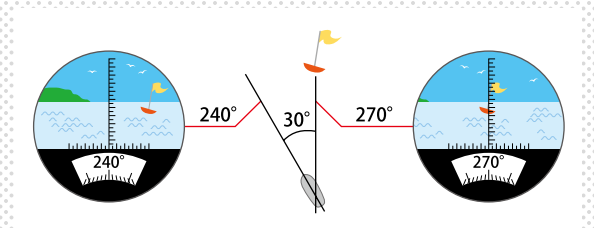


Using the Compass

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

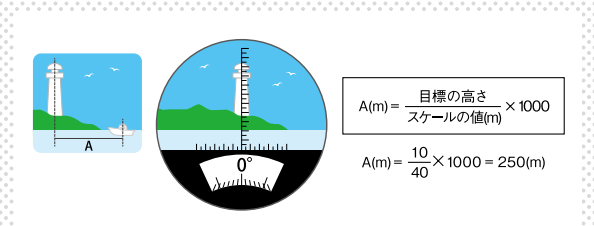
• Identifying direction of travel

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.



Unrivalled 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 25x150ED-SX, 40x150ED-SX and 25x150EM-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 (15x80MT-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



*Only the 25x150ED-SX, 40x150ED-SX and 25x150EM-SX have ED lenses.

Bundled items: Objective lens cap and winged eyecup.



25x150MT-SX



25x150EM-SX (45° eyepiece)



40x150ED-SX



15x80MT-SX
(industrial type with case)



Tested and proven image stabilization for when it matters most

STABISCOPE series

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 $\pm 5^\circ$ 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 $+50^\circ\text{C}$.
- 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, DC regulator, input and output cords (for DC regulator), and 4 AA batteries.



S1240 (12×40)



S1640 (16×40)



Seeing is believing, day or night

DAY/NIGHT series



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)



Bundled items: Objective lens cap, eyepiece cap, hard case, strap and 2 CR123A lithium batteries.



8×50FMTR-D/N



Night eyepiece Daytime eyepiece

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)



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



Night eyepiece Daytime eyepiece



25×150ED-D/N

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 clear 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)



Bundled items: Neck strap, hand band, DC regulator, input and output cords (for DC regulator), and 4 AA Alkaline batteries.



S1240-D/N (12×40) with the night eyepieces.



Night eyepiece Daytime eyepiece

Accessories

▶ TS-X 1440/STABISCOPE series



TS-X 1440/S1240/S1640
Polarizing filter (1pc)



TS-X 1440/S1240/S1640
Orange filter (1pc)



Water proof case for
STABISCOPE S1240/S1640



S1240/S1640
DC regulator

▶ DAY/NIGHT series



Water proof case for
8x50FMTR-D/N

▶ FMT/MT series Please refer to the correspondence table below to find filters for your binoculars.



16x70FMT
Polarizing filter (1pc)



16x70FMT
Nebula filter (1pc)



7x50FMT/10x70FMT
Polarizing filter (1pc)



7x50FMT/10x70FMT
Nebula filter (1pc)

Filter to model correspondence table	FMT-SX	FMTR-SX	FMTRC-SX	FMT-SX	FMTR-SX	FMT-SX	FMT-SX	MT-SX	MTR-SX	MTRC-SX	MT-SX
		7x50		10x50		10x70	16x70		7x50		10x70
Polarizing filter for 16x70FMT							•				
Nebula filter for 16x70FMT							•				
Polarizing filter for 7x50FMT/10x70FMT	•	•	•	•	•	•		•	•	•	•
Nebula filter for 7x50FMT/10x70FMT	•	•	•	•	•	•		•	•	•	•



Tripod adaptor



FMT/MT
Carry case for FMT/MT



Eyepiece rain guard



Example
of use



Round-shaped eye cups *1 (2pcs)

*Photo is Type 1



Example
of use



Horn-shaped rubber eye cups *2 (End of sale)



Adapter for Horn-shaped eye cups (End of sale)

*Photo is Type 1

Eye cups & Adapter to model correspondence table	FMT-SX	FMTR-SX	FMTRC-SX	FMT-SX	FMTR-SX	FMT-SX	FMT-SX	MT-SX	MTR-SX	MTRC-SX	MT-SX
		7x50		10x50		10x70	16x70		7x50		10x70
Round-shaped eye cups Type 1 *1	•	•	•			•	•	•	•	•	•
Round-shaped eye cups Type 2 *1											
Round-shaped eye cups Type 3 *1				•	•						
Horn-shaped rubber eye cups *2	•	•	•	•	•	•	•	•	•	•	•
Adapter for Horn-shaped eye cups Type 1							•	•	•	•	•
Adapter for Horn-shaped eye cups Type 2	•	•	•			•					
Adapter for Horn-shaped eye cups Type 3				•	•						

*1: Attached in the standard package.

*2: Horn-shaped eye cups are to be used with the adapters.

▶ LB150 series



LB150
Polarizing filter (1pc)



LB150
Nebula filter (1pc)



Mount for LB150
Height: 52cm Weight: 8.3kg

Example of use



Tripod for LB150
Height: 82-135cm Weight: 11kg



Aluminium case for LB150
Size: 105x54x30cm Weight: 20kg


*Binoculars are not included

Accessories for 15x80



Mount for 15x80
Height: 29.5cm Weight: 2.4kg

Specifications

Series		TECHNO-STABI									MT				
Item	Product														
		TS-X 1440	TS12x28	TS16x28	7x50FMT-SX	7x50FMTR-SX	7x50FMTRC-SX	10x50FMT-SX	10x50FMTR-SX	10x70FMT-SX	16x70FMT-SX	7x50MT-SX	7x50MTR-SX	7x50MTRC-SX	10x70MT-SX
Page		3	4	4	5	5	5	5	5	5	5	6	6	6	6
Magnification		14	12	16	7	7	7	10	10	10	16	7	7	7	10
Objective diameter (mm)		40	28	28	50	50	50	50	50	70	70	50	50	50	70
Field of view (°)		4	4.2	4	7.5	7.5	7.5	6.5	6.5	5.3	4	7.5	7.5	7.5	5.3
Apparent field of view (°) *1		52.1	47.5	58.4	49.3	49.3	49.3	59.2	59.2	49.7	58.4	49.3	49.3	49.3	49.7
Field of view at 1000m (m)		70	73	70	131	131	131	114	114	93	70	131	131	131	93
Exit pupil		2.9	2.3	1.8	7.1	7.1	7.1	5	5	7	4.4	7.1	7.1	7.1	7
Twilight factor		8.2	5.4	3.1	51	51	51	25	25	49	19.1	51	51	51	49
Eye relief (mm)		13	16.5	16	23	23	23	19.8	19.8	23	15.5	12	12	12	12
Minimum Focus Distance (m) *2		5	3.5	3.5	9.8	9.8	9.8	20	20	20	51.2	9.8	9.8	9.8	20
Height (mm)		187	148	151	196	198	198	191	198	280	270	185	187	187	269
Width (mm)		165	109	120	218	218	218	218	218	238	238	218	218	218	238
Depth (mm)		81	74	74	78.5	78.5	93	78.5	78.5	88.5	88.5	78.5	78.5	93	88.5
Weight (g) (w/o Battery)		1,300	485	550	1,380	1,410	1,460	1,400	1,430	1,930	1,920	1,220	1,300	1,360	1,800
Adjustment range for interpupillary distance (mm)		60-70	56-70	56-70	56-74	56-74	56-74	56-74	56-74	56-74	56-74	56-74	56-74	56-74	56-74
Dioptric adjustment range (±mm)		±2	±2	±2	±5	±5	±5	±5	±5	±5	±5	±5	±5	±5	±5
Focus type		CF	CF	CF	IF	IF	IF	IF	IF	IF	IF	IF	IF	IF	IF
Water resistant *3		1m-5min	-	-	2m-5min	2m-5min	2m-5min	2m-5min	2m-5min	2m-5min	2m-5min	2m-5min	2m-5min	2m-5min	2m-5min
Battery		AAx4 or Ni-MHx4	CR2x1	CR2x1	-	-	-	-	-	-	-	-	-	-	-
Operating temperature		-10°C - +50°C	-10°C - +50°C	-10°C - +50°C	-20°C - +50°C	-20°C - +50°C	-20°C - +50°C	-20°C - +50°C	-20°C - +50°C	-20°C - +50°C	-20°C - +50°C	-20°C - +50°C	-20°C - +50°C	-20°C - +50°C	-20°C - +50°C

Series		MARINER		LB150					STABISCOPE		DAY/NIGHT		
Item	Product												
		7x50WPC-XL	7x50WP-XL	25x150MT-SX	25x150ED-SX	40x150ED-SX	25x150EM-SX	15x80MT-SX	STABI S1240	STABI S1640	8x50FMTR-D/N	25x150ED-D/N	STABI S1240-D/N
Page		7	7	9-10	9-10	9-10	9-10	9-10	11	11	13	13	14
Magnification		7	7	25	25	40	25	15	12	16	8	25	12
Objective diameter (mm)		50	50	150	150	150	150	80	40	40	50	150	40
Field of view (°)		7	7	2.7	2.7	1.7	2.7	4	4.7	3.4	6.4	2.7	4.7
Apparent field of view (°) *1		46.4	46.4	61	61	61.4	61	55.3	52.4	50.8	48.2	61	52.4
Field of view at 1000m (m)		122	122	47	47	30	47	70	82	59	11.8	47	82
Exit pupil		7.1	7.1	6	6	3.8	6	5.3	3.3	2.5	6.3	6	3.3
Twilight factor		51	51	36	36	14.1	36	28.4	11.1	6.3	39	36	11.1
Eye relief (mm)		18	18	18.6	18.6	15	18.6	15.7	17	12	31	18.6	17
Minimum Focus Distance (m) *2		12.3	9.8	125	125	320	125	45	28.8	51.2	-	75	-
Height (mm)		180	180	962	962	946	964	510	210	200	235	962	210
Width (mm)		201	201	365	365	365	365	225	200	200	219	365	200
Depth (mm)		76	65	525	525	525	545	455	90	90	88	525	90
Weight (g) (w/o Battery)		910	885	18,500	18,500	18,500	19,500	7,060	1,800	1,800	1,900	20,000	1,800
Adjustment range for interpupillary distance (mm)		56-72	56-72	60-70	60-70	60-70	60-70	58-72	59-71	59-71	60-70	60-70	60-70
Dioptric adjustment range (±mm)		±4	±4	-7 - +3	-7 - +3	-7 - +3	-7 - +3	-4 - +2	±5	±5	±5	-7 - +3	±5
Focus type		IF	IF	IF	IF	IF	IF	IF	IF	IF	IF	IF	IF
Water resistant *3		1m-5min	1m-5min	2m-5min	2m-5min	2m-5min	2m-5min	2m-5min	2m-5min	2m-5min	2m-5min	2m-5min	2m-5min
Battery		LR43x1	-	-	-	-	-	-	AAx4 or 2CR5x1	AAx4 or 2CR5x1	CR123Ax2	CR123Ax1	AAx4 or 2CR5x1
Operating temperature		-20°C - +50°C	-20°C - +50°C	-20°C - +50°C	-20°C - +50°C	-20°C - +50°C	-20°C - +50°C	-20°C - +50°C	-20°C - +50°C	-20°C - +50°C	-20°C - +50°C	-20°C - +50°C	-20°C - +50°C

*1: Apparent field of view based on ISO14132-1:2002 *2: MOD may differ depending on the viewer's sight in case of Individual focus. *3: Do not mean it can be used in water.