FUJIFILM
Value from Innovation

The new standard in optics

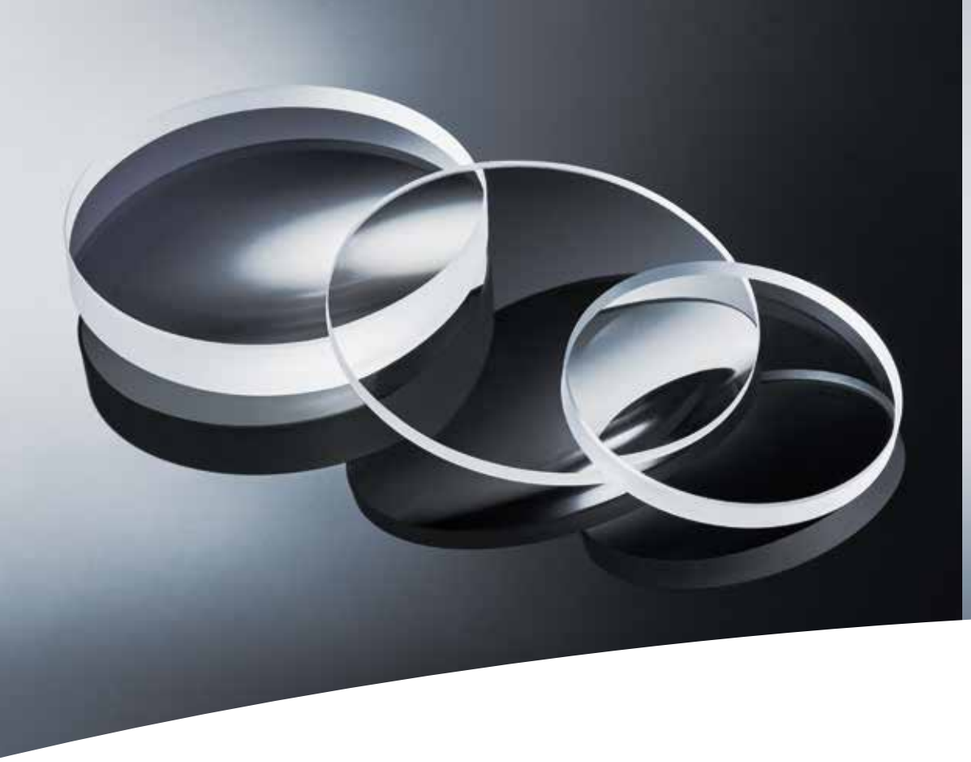
FUJINON

Binoculars Catalog

FUJIFILM
FUJIFILM Corporation
Optical Device & Electronic Imaging Product Division

For Your Safety
Be certain to read the instruction for use before using any equipment.

Printed in Japan



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.

Comparison 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 FMTR model can give a better FOV, while the TECHNO-STABI Series can reduce vibration.

10×50FMTR-SX

Provides a wide, bright view.

TS12×28

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

Binoculars to suit your needs

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

Symbols of features

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

IF: Indvidual Focus
The focus is adjusted by turning the dioptric 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.

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 ±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.

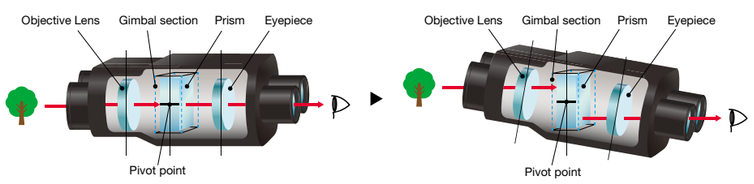
TS-X 1440 (14×40)

▸ TS-X 1440

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

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 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.

▸ TS12×28

▸ TS16×28

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

TS12×28

TS16×28

Clear view ahead

HYPER-CLARITY series

Discover what has yet to be seen with hyper-clear field of view.

- Superb light transmission due to Fujifilm's unique SUPER EBC FUJINON multi-coating on all light-transmitting surfaces including the lens elements and prisms.
- The ED lens elements effectively control the chromatic aberration and prism coating for a superior image resolution as well as contrast. This also allows for a much brighter field of view.
- The placement of nine lens elements in seven groups controls distortion across the entire view from the center to the edges.
- Water and fog proof structure*1 housed in a robust magnesium-alloy body. Water-repellant coating on both objective lenses and eyepieces.
- Optical filters*2 such as PL filters and nebula filters are usable by fitting these into the front side of objective lenses.
- Premium design features such as metal texturing amplifies users' senses and operability.
- A slip-resistant elastomeric material and ergonomically-engineered easy-grip body shape allow for excellent stability when held in your hand.
- Long eye-relief for easy use even when wearing glasses.

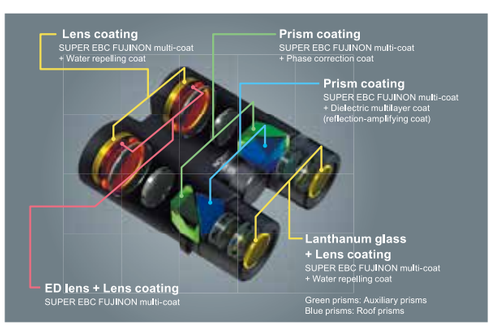
*1 1m-5min. Not to be used underwater. *2 M46×0.75

HC 8×42

▸ HC 8×42
▸ HC 10×42

Bundled items: Objective lens caps, Eyepiece caps, Carrying case, and Neck strap

HC 10×42



Contrast-rich image

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 ±0.5°. 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

▸ 7×50WPC-XL
▸ 7×50WP-XL

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

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

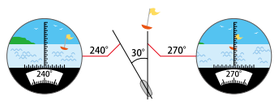
7×50WP-XL

Using the Compass

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

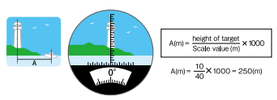
• Identifying direction of travel

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.



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.
- 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 ±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.

- **7×50FMTR-SX**
- **7×50FMTRC-SX**
- **10×50FMTR-SX**
- **10×70FMTR-SX**
- **16×70FMTR-SX**

IF EBC *1 *2

*1 10x50FMTR-SX are wide-angle models.
*2 Only the 7x50FMTRC-SX model is available with an in-built compass.

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

7×50FMTR-SX

7×50FMTRC-SX

16×70FMTR-SX

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.
- 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.

- **7×50MTR-SX**
- **7×50MTRC-SX**
- **10×70MTR-SX**

IF EBC *

* 7x50MTRC-SX has a built-in compass.

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

7×50MTR-SX

7×50MTRC-SX

A Guide to Model name

7 × 50 F MTR C - SX

- 7 — Magnification
- 50 — Objective lens diameter
- F — Field flattener lens
- MTR — Waterproof
- C — Built-in compass
- R — Rubber coating
- SX — EBC coating

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 25x150ED-SX and 40x150ED-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)**
- **15×80MT-SX**

IF ED* EBC

*Only the 25×150ED-SX and 40×150ED-SX have ED lenses.

Bundled items: Objective lens cap and winged eyecup.

25×150MT-SX

40×150ED-SX

25×150ED-SX

15×80MT-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 ±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, 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

▸ 8×50FMTR-D/N (made to order)

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

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

▸ 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

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.

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

▸ 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.

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.

Example
of use

*Photo is Type 1

Round-shaped eye cups * (2pcs)

Eye cups to model correspondence table	FMTR-SX	FMTRC-SX	FMTR-SX	FMTR-SX	FMTR-SX	MTR-SX	MTRC-SX	MTR-SX
	7×50		10×50	10×70	16×70	7×50		10×70
Round-shaped eye cups Type 1 *					●	●	●	●
Round-shaped eye cups Type 2 *	●	●		●				
Round-shaped eye cups Type 3 *			●					

* Attached in the standard package.

Tripod adaptor

Eyepiece rain guard
for FMT

LB150 series

Mount for LB150
Height: 52cm Weight: 8.3kg

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

*Binoculars are
not included

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

Accessories for 15×80

Mount for 15×80
Height: 29.5cm Weight: 2.4kg

Specifications

Series	TECHNO-STABI			HYPER-CLARITY		MARINER		FMT				
Item \ Product	 TS-X 1440	 TS12×28	 TS16×28	 HC8×42	 HC10×42	 7×50WPC-XL	 7×50WP-XL	 7×50FMTR-SX	 7×50FMTR-SX	 10×50FMTR-SX	 10×70FMTR-SX	 16×70FMTR-SX
Page	3	4	4	5	5	6	6	7	7	7	7	7
Magnification	14	12	16	8	10	7	7	7	7	10	10	16
Objective diameter (mm)	40	28	28	42	42	50	50	50	50	50	70	70
Field of view (°)	4	4.2	4	8	6.5	7	7	7.5	7.5	6.5	5.3	4
Apparent field of view (°) *1	52.1	47.5	58.4	58.4	59.2	46.4	46.4	49.3	49.3	59.2	49.7	58.4
Field of view at 1000m (m)	70	73	70	136	114	122	122	131	131	114	93	70
Exit pupil	2.9	2.3	1.8	5.3	4.2	7.1	7.1	7.1	7.1	5	7	4.4
Relative Brightness	8.2	5.4	3.1	28.1	17.6	51	51	51	51	25	49	19.1
Eye relief (mm)	13	16.5	16	18	16	18	18	23	23	19.8	23	15.5
Minimum Focus Distance (m) *2	5	3.5	3.5	2.0	2.0	12.3	9.8	9.8	9.8	20	20	51.2
Height (mm)	187	148	151	139	137	180	180	198	198	198	280	270
Width (mm)	165	109	120	130	130	201	201	218	218	218	238	238
Depth (mm)	81	74	74	54	54	76	65	78.5	93	78.5	88.5	88.5
Weight (g) (w/o Battery)	1,300	485	550	786	778	910	885	1,410	1,460	1,430	2,010	2,000
Adustment range for interpupillary distance (mm)	60-70	56-70	56-70	57-76	57-76	56-72	56-72	56-74	56-74	56-74	56-74	56-74
Dioptric adjustment range (±mm)	±2	±2	±2	±4	±4	±4	±4	±5	±5	±5	±5	±5
Focus type	CF	CF	CF	CF	CF	IF	IF	IF	IF	IF	IF	IF
Water resistant *3	1m-5min	-	-	1m-5min	1m-5min	1m-5min	1m-5min	2m-5min	2m-5min	2m-5min	2m-5min	2m-5min
Battery	AA×4 or Ni-MH×4	CR2×1	CR2×1	-	-	LR43×1	-	-	-	-	-	-
Operationg temperature	−10°C - +50°C	−10°C - +50°C	−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

Series	MT			LB150				STABISCOPE		DAY/NIGHT		
Item \ Product	 7×50MTR-SX	 7×50MTRC-SX	 10×70MTR-SX	 25×150MT-SX	 25×150ED-SX	 40×150ED-SX	 15×80MT-SX	 STABI S1240	 STABI S1640	 8×50FMTR-D/N	 25×150ED-D/N	 STABI S1240-D/N
Page	8	8	8	9-10	9-10	9-10	9-10	11	11	13	13	14
Magnification	7	7	10	25	25	40	15	12	16	8	25	12
Objective diameter (mm)	50	50	70	150	150	150	80	40	40	50	150	40
Field of view (°)	7.5	7.5	5.3	2.7	2.7	1.7	4	4.7	3.4	6.4	2.7	4.7
Apparent field of view (°) *1	49.3	49.3	49.7	61	61	61.4	55.3	52.4	50.8	48.2	61	52.4
Field of view at 1000m (m)	131	131	93	47	47	30	70	82	59	11.8	47	82
Exit pupil	7.1	7.1	7	6	6	3.8	5.3	3.3	2.5	6.3	6	3.3
Relative Brightness	51	51	49	36	36	14.1	28.4	11.1	6.3	39	36	11.1
Eye relief (mm)	12	12	12	18.6	18.6	15	15.7	17	12	31	18.6	17
Minimum Focus Distance (m) *2	9.8	9.8	20	125	125	320	45	28.8	51.2	-	75	-
Height (mm)	187	187	269	962	962	946	510	210	200	235	962	210
Width (mm)	218	218	238	365	365	365	225	200	200	219	365	200
Depth (mm)	78.5	93	88.5	525	525	525	455	90	90	88	525	90
Weight (g) (w/o Battery)	1,300	1,360	1,880	18,500	18,500	18,500	7,060	1,800	1,800	1,900	20,000	1,800
Adustment range for interpupillary distance (mm)	56-74	56-74	56-74	60-70	60-70	60-70	58-72	59-71	59-71	60-70	60-70	60-70
Dioptric adjustment range (±mm)	±5	±5	±5	−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	2m-5min	2m-5min	2m-5min	2m-5min	2m-5min	2m-5min	2m-5min	2m-5min	2m-5min	2m-5min	2m-5min	2m-5min
Battery	-	-	-	-	-	-	-	AA×4 or 2CR5×1	AA×4 or 2CR5×1	CR123A×2	CR123A×1	AA×4 or 2CR5×1
Operationg 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 Indivisual focus. *3: Do not mean it can be used in water.