

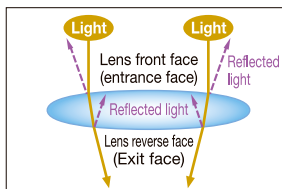




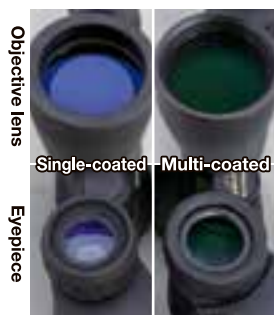
## Coating

Lens and prisms are provided with a variety of coatings in order to reduce light loss and to deliver bright and sharp images. The optical performance is determined by the type of coating and where it is applied.

In general, the lens surface will reflect part of the light at the front lens and also at the back of the lens. This reduces the volume of light transmission and results in darker images while the reflected light causes a negative influence on images with ghost or flares. Coatings are applied to reduce these effects.

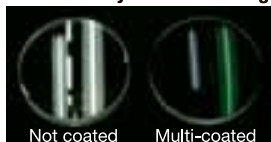


### Type of Lens Coatings



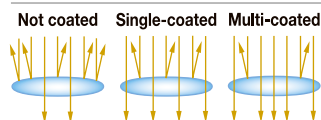
Lens coating is applied to the front and reverse sides of the lenses. Single-coating is a lens coated with one layer and multi coated lenses have more than 3 layers of coating. Multi-coating will reduce reflected light to a maximum by using many layers of coating. This is not removed as well in single coated lenses. Multi coated lenses enhance light transmission and realize a bright and high contrastive field of view.

### Reflection by diverse coating



Multi-coating shows less reflection.

### Reflection by diverse coating



Related Pictogram



### Other types of coatings

#### Magenta-coated on objective and eyepieces lenses

Objective and eyepiece lenses are magenta-coated to reduce light loss for bright field of view.

#### Fully coated

All lens surfaces of objective and eyepiece lenses are coated to better reduce light loss from reflection.

#### Multi-coated on objective

Objective lens is multi-coated for a brighter and high contrast field of view.

#### Multi-coated on objective and eyepiece lenses

Objective lens is multi-coated for a brighter and high contrast field of view.

### Type of Prism Coatings



Prism of some high class models is multi-coated to reduce flare or ghost for higher contrast and clear field of view.

The effect of the coating is shown on the pictures taken from eyepiece side.

Related Pictogram



### Prism Phase Coatings



Without Phase Coatings

With Phase Coatings

Providing phase-coating on the prism of roof-prism binoculars reduces halation from bright objects for higher resolution and clear high contrast images.

Related Pictogram



### ED (Extra-low Dispersion) Glass Lenses

The ED glass reduces chromatic aberration for extremely sharp image.

Related Pictogram





## Binoculars

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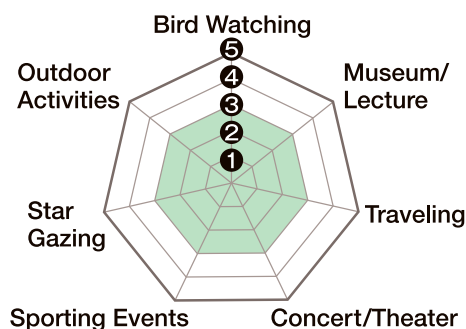
## Radar Chart

Use this Radar Chart to find a product suitable for your specific needs.

### Ranks by Number

- 5 Best
- 4 Suitable
- 3 Good
- 2 Possible
- 1 Less suitable

### Example



## Legend

### Types of Binoculars

- Porro Prism** A combination of two right angle prisms is used. The binoculars feature sturdy designs providing outstanding performance for its price.
- Roof Prism** The optics are designed in a straight line which results in a compact binocular.

### Other Features

- ED Lens** Extra-low dispersion glass is used in the objective lens to eliminate chromatic aberration. It provides a high level of color correction and a clearer view.
- Long Eye-relief** The eyepiece has eye relief of 15mm or longer. It reduces eyestrain during long observing sessions and offers eyeglass wearers comfortable viewing.
- Zoom** Magnification can be changed depending on needs of your observation. The higher the magnification, the narrower and darker the field of view.
- Wide Field of View** An apparent field of view is 60 degrees or over. A wide field of view is desirable in situations where the object viewed is moving.
- Ultra Wide Field of View** An apparent field of view of 75 degrees or more. A large area can be viewed comfortably.
- Vibration-Canceler System** Fine movement by hands will be detected and electrically corrected to be a minimum for constantly stable field of view.
- Tripod Adaptable** A dedicated tripod adapter is required for certain binoculars.
- Water proof** The product is designed to prevent moisture or water from entering the binocular or spotting scope. These products are suitable for use outdoors.

### Types of Spotting Scopes

- Straight Viewing** The Straight Thru Eyepiece Design makes it easier to keep your target object centered in the scope's field of view.

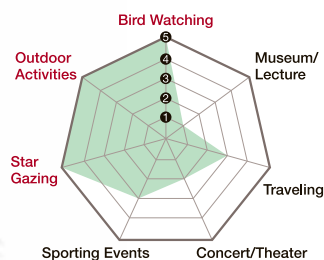
### Coatings

- Magenta Coating** One or more surfaces of the lens are coated with a single layer of anti-reflecting magnesium fluoride coating.
- Fully Coated** The coating is applied to all the surfaces of the lenses and it greatly reduces a loss of light.
- Multi-Coated** One or more surfaces of the lenses are coated with three layers or more to increase light transmission.
- Fully Multi-Coated** All air-to-glass surfaces are coated with multiple layers to achieve high contrast images.
- PFM Coating** The PFM stands for Perfect Multi-Coating that minimize the loss of light transmission resulting in bright and sharp images.
- FLAT Multi-Coating** Advanced seven layers of anti-reflection coatings are applied to the surfaces of the lenses to uniformly minimize light loss over the spectrum of visible light.
- Phase Coating** Special coatings are applied to correct the phase shift of roof prisms to enhance resolution and contrast for brighter and sharper images.
- High Reflectivity Coating** Dielectric coatings are applied to maximize the reflection of roof prisms to produce clearer and brighter views.
- Ultra High Reflectivity Dielectric Coating** Dielectric multilayered coating is applied on the surface of the sub roof prisms to achieve high reflectivity for extremely bright and clear image.
- Hydrophobic Coating** The coating facilitates cleaning of dirt or fingerprints on the outer lens surfaces for clear field of view.

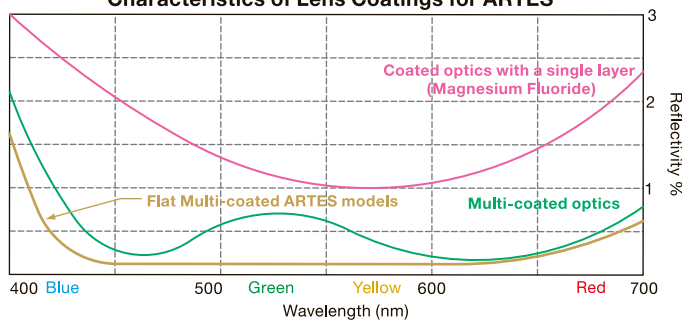
# ARTES

ARTES Series

## The Finest Roof Prism Binoculars The Pinnacle of Performance in Sports Optics



Characteristics of Lens Coatings for ARTES



### Magnesium Alloy Chassis

You will appreciate the sturdy yet light weight body made of magnesium alloy. Nitrogen filled waterproof construction keeps your view clear in any weather.

### Open Bridge Design

Open bridge arms of the body are designed for firm gripping and smooth focusing anytime.



**14531**

### ARTES ED 8.5×45 DCF

With soft binocular case and wide neck strap



- Magnification : 8.5X
- Objective lens diameter : 45mm (ED)
- Prism material : BaK4/SK15
- Angular field of view : 7.0°
- Apparent FOV : 59.5°
- FOV at 1000m : 122m
- Exit pupil : 5.3mm
- Brightness : 28.1
- Eye relief : 17.5mm
- Close focus : 2.2m
- Interpupillary distance : 56mm to 74mm
- Size : 15.6x13.4x5.9cm
- Weight : 885g / 31.2 oz

### ED Objective Lens

With the use of extra low dispersion glass in the objective lens elements, the ARTES binoculars deliver outstandingly sharp images free of chromatic aberration.

### Flat Multi-Coatings

The newest flat multi-coatings on the surfaces of the lenses achieve superb light transmission over all the visible rays of light.

### Phase Coated Prisms

The phase coatings correct phase shift of the light waves that occurs on the edge of roof prisms by reflection. It can achieve image quality of higher contrast levels and result in extremely bright and sharp images with maximum contrast.

### SK15 Prisms

The finest SK15 prisms with the index of high refraction are used for the sub prisms resulting in brighter images throughout the edge of field of view.

### Ultra High Reflectivity Dielectric Coating

State-of-the-art dielectric coatings are applied to the surface of the sub roof prisms to achieve extremely high reflectivity.

### Hydrophobic Coatings

This coating protects the outer lens surfaces from dirt. If the lens is marked with fingerprints or dust particles, the lens surface can easily be cleaned.



**14532**

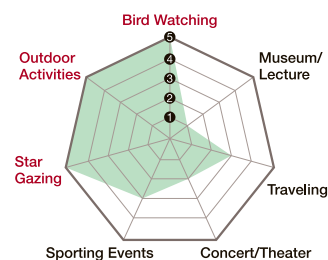
### ARTES ED 10.5×45 DCF

With soft binocular case and wide neck strap



- Magnification : 10.5X
- Objective lens diameter : 45mm (ED)
- Prism material : BaK4/SK15
- Angular field of view : 6.0°
- Apparent FOV : 63.0°
- FOV at 1000m : 105m
- Exit pupil : 4.3mm
- Brightness : 18.5
- Eye relief : 15.0mm
- Close focus : 2.2m
- Interpupillary distance : 56mm to 74mm
- Size : 15.6x13.4x5.9cm
- Weight : 885g / 31.2 oz





Inheriting the high performance of the flag-ship ARTES series, the ARTES-J series realized an uncompromisingly excellent optical performance with the ergonomically designed handling comfort.

### ED Objective Lens

With the use of extra-low dispersion glass in the objective lens elements, the ARTES J-series binoculars deliver outstandingly sharp images free of chromatic aberration.

### High Reflectivity Dielectric Coating

State-of-the-art dielectric coatings are applied to the surface of the sub roof prisms to achieve extremely high reflectivity.

### Phase Coated Prisms

The phase coatings correct phase shift of the light waves that occurs on the edge of roof prisms by reflection. It can achieve image quality of higher contrast levels and result in extremely bright and sharp images with maximum contrast.

### Open Bridge Design

Open bridge arms of the body are designed for firm gripping and smooth focusing anytime.



**NEW**  
**14491**

### ARTES J ED 8×42 DCF

With soft binocular case and wide neck strap



- Magnification : 8X
- Objective lens diameter : 42mm (ED)
- Prism material : BaK4
- Angular field of view : 7.0°
- Apparent FOV : 56.0°
- FOV at 1000m : 122m
- Exit pupil : 5.3mm
- Brightness : 28.1
- Eye relief : 19.0mm
- Close focus : 3.0m
- Interpupillary distance : 56mm to 75mm
- Size : 14.6x13.0x5.3cm
- Weight : 700g / 24.69 oz



**NEW**  
**14492**

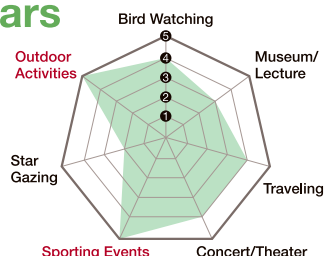
### ARTES J ED 10×42 DCF

With soft binocular case and wide neck strap



- Magnification : 10X
- Objective lens diameter : 42mm (ED)
- Prism material : BaK4
- Angular field of view : 6.0°
- Apparent FOV : 60.0°
- FOV at 1000m : 105m
- Exit pupil : 4.2mm
- Brightness : 17.6
- Eye relief : 17.0mm
- Close focus : 3.0m
- Interpupillary distance : 56mm to 75mm
- Size : 14.6x13.0x5.3cm
- Weight : 700g / 24.69 oz

## Compact and All-round Binoculars for Indoor and Outdoor Events



### Extreme Compact Design

Extremely compact and lightweight foldable design offers great comfort in mobility and handling, well suited to any indoor or outdoor events.

### Multilayered coating for bright view

The provided fully multi-coating realizes very bright viewing.

### Waterproof construction

The inert nitrogen gas purged waterproof design ensures use in all weather conditions.



1645

#### NEW APEX 8×24 DCF

With soft binocular case and neck strap



- Magnification : 8X
- Objective lens diameter : 24mm
- Prism material : BaK4
- Angular field of view : 6.2°
- Apparent FOV : 49.6°
- FOV at 1000m : 108m
- Exit pupil : 3.0mm
- Brightness : 9.0
- Eye relief : 12.0mm
- Close focus : 5.0m
- Interpupillary distance : 35mm to 70mm
- Size : 9.5x6.7x4.3cm
- Weight : 220g / 7.76 oz



1646

#### NEW APEX 10×28 DCF

With soft binocular case and neck strap



- Magnification : 10X
- Objective lens diameter : 28mm
- Prism material : BaK4
- Angular field of view : 5.0°
- Apparent FOV : 50.0°
- FOV at 1000m : 87m
- Exit pupil : 2.8mm
- Brightness : 7.8
- Eye relief : 12.0mm
- Close focus : 4.0m
- Interpupillary distance : 35mm to 70mm
- Size : 10.7x6.7x4.3cm
- Weight : 245g / 8.64 oz



1647

#### NEW APEX 12×30 DCF

With soft binocular case and neck strap



- Magnification : 12X
- Objective lens diameter : 30mm
- Prism material : BaK4
- Angular field of view : 4.2°
- Apparent FOV : 50.4°
- FOV at 1000m : 73m
- Exit pupil : 2.5mm
- Brightness : 6.3
- Eye relief : 12.0mm
- Close focus : 5.0m
- Interpupillary distance : 35mm to 70mm
- Size : 12.3x6.7x4.3cm
- Weight : 270g / 9.52 oz

## FORESTA

### FORESTA Series

## The Popular Porro Prism Design Featuring Lightweight binocular with extremely clear views.

### Brighter and Sharper Images

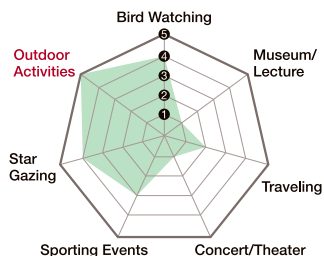
The fully multi-coated lenses where all the surfaces of the lenses of objective and eyepiece are multi-layered to assure very bright view and high contrast.

### BaK4 Prism

The BaK4 prism delivers crisp and sharp images over the entire field of view.

### Long Eye Relief

The long eye relief allows for comfortable viewing, especially for eyeglass wearers. The FORESTA with a 20mm long eye relief provides the eyeglass wearer an unrestricted field of view.



### The popular 10x binocular

Popular among birdwatchers for high contrast and bright field of view.

### Extremely bright binoculars

With a 7.1 exit pupil and 50.4 brightness these binoculars are a favorite of night sky viewers.



14502

#### FORESTA 8×42 CF

With soft binocular case and wide neck strap



- Magnification : 8X
- Objective lens diameter : 42mm
- Prism material : BaK4
- Angular field of view : 7.5°
- Apparent FOV : 60.0°
- FOV at 1000m : 131m
- Exit pupil : 5.3mm
- Brightness : 28.1
- Eye relief : 21.0mm
- Close focus : 4.0m
- Interpupillary distance : 56mm to 71mm
- Size : 14.5x18.0x5.5cm
- Weight : 790g / 27.86 oz



14503

#### FORESTA 10×42 CF

With soft binocular case and wide neck strap



- Magnification : 10X
- Objective lens diameter : 42mm
- Prism material : BaK4
- Angular field of view : 6.0°
- Apparent FOV : 60.0°
- FOV at 1000m : 105m
- Exit pupil : 4.2mm
- Brightness : 17.6
- Eye relief : 20.0mm
- Close focus : 4.0m
- Interpupillary distance : 56mm to 71mm
- Size : 14.5x18.0x5.5cm
- Weight : 790g / 27.86 oz



14504

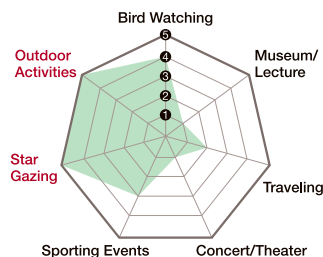
#### FORESTA 7×50 CF

With soft binocular case and wide neck strap



- Magnification : 7X
- Objective lens diameter : 50mm
- Prism material : BaK4
- Angular field of view : 7.1°
- Apparent FOV : 49.7°
- FOV at 1000m : 124m
- Exit pupil : 7.1mm
- Brightness : 50.4
- Eye relief : 20.0mm
- Close focus : 6.0m
- Interpupillary distance : 56mm to 71mm
- Size : 18.0x19.0x6.5cm
- Weight : 930g / 32.8 oz

- The ASCOT-series (except #1552 10x50 SW) are provided with PFM coating which multi-coats all the surfaces of the lenses and prism to deliver ultimate sharpness and natural color fidelity
- Waterproof construction filled with nitrogen gas assures uses in all weather conditions (except zoom type and 10x50 SW).
- The high grade BaK4 prism reproduces sharp image from edge to edge



**830g/1.8 lbs compact body**  
**8x Wide angle binoculars for viewing birds or wildlife**



**1560**

### ASCOT 8×32 ZWCF

With soft binocular case and neck strap



- Magnification : 8X
- Objective lens diameter : 32mm
- Prism material : BaK4
- Angular field of view : 8.2°
- Apparent FOV : 65.6°
- FOV at 1000m : 143m
- Exit pupil : 4.0mm
- Brightness : 16.0
- Eye relief : 15.0mm
- Close focus : 4.5m
- Interpupillary distance : 59mm to 72mm
- Size : 11.3x17.7x5.8cm
- Weight : 830g / 29.27 oz

**8x wide-angle binoculars for watching frequently moving birds and wildlife.**



**1561**

### ASCOT 8×42 ZWCF

With soft binocular case and neck strap



- Magnification : 8X
- Objective lens diameter : 42mm
- Prism material : BaK4
- Angular field of view : 8.2°
- Apparent FOV : 65.6°
- FOV at 1000m : 143m
- Exit pupil : 5.3mm
- Brightness : 28.1
- Eye relief : 18.0mm
- Close focus : 6.0m
- Interpupillary distance : 58mm to 71mm
- Size : 13.3x18.1x5.9cm
- Weight : 870g / 30.68 oz

**Be amazed at the extraordinary wide field of view**



**1552**

### ASCOT 10×50 ZCF SUPER WIDE

With soft binocular case and neck strap



- Magnification : 10X
- Objective lens diameter : 50mm
- Prism material : BaK4
- Angular field of view : 8.5°
- Apparent FOV : 85°
- FOV at 1000m : 148m
- Exit pupil : 5.0mm
- Brightness : 25.0
- Eye relief : 7.0mm
- Close focus : 5.7m
- Interpupillary distance : 59mm to 72mm
- Size : 15.5x18.0x7.6cm
- Weight : 875g / 30.86 oz

**Exceptionally 50.4 bright lenses for stargazing**



**1562**

### ASCOT 7×50 ZCF

With soft binocular case and neck strap



- Magnification : 7X
- Objective lens diameter : 50mm
- Prism material : BaK4
- Angular field of view : 6.4°
- Apparent FOV : 44.8°
- FOV at 1000m : 112m
- Exit pupil : 7.1mm
- Brightness : 50.4
- Eye relief : 17.0mm
- Close focus : 9.0m
- Interpupillary distance : 59mm to 72mm
- Size : 17.0x18.8x6.3cm
- Weight : 1015g / 35.8 oz

**18.0mm extended eye-relief design for steady viewing**



**1563**

### ASCOT 10×50 ZWCF

With soft binocular case and neck strap



- Magnification : 10X
- Objective lens diameter : 50mm
- Prism material : BaK4
- Angular field of view : 6.5°
- Apparent FOV : 65.0°
- FOV at 1000m : 113m
- Exit pupil : 5.0mm
- Brightness : 25.0
- Eye relief : 18.0mm
- Close focus : 9.0m
- Interpupillary distance : 59mm to 72mm
- Size : 17.0x18.8x6.3cm
- Weight : 1040g / 36.68 oz

**Max. 32x zoom for optimum viewing demand**



**1565**

### ASCOT 8-32×50 ZCF ZOOM

With soft binocular case and neck strap



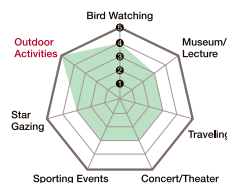
- Magnification : 8X to 32X
- Objective lens diameter : 50mm
- Prism material : BaK4
- Angular field of view : 4.2° to 2.0°
- Apparent FOV : 33.6° to 64°
- FOV at 1000m : 73m to 35m
- Exit pupil : 6.3mm to 1.6mm
- Brightness : 39.7-2.6
- Eye relief : 14.0mm to 11.0mm
- Close focus : 19.5m
- Interpupillary distance : 58mm to 72mm
- Size : 19.4x18.8x6.3cm
- Weight : 1025g / 36.15 oz



# ATREK II

ATREK II Series

## The New Standard of Outdoor Roof Prism Binoculars



### Comfortable 8x Magnification

Wide angle view suited for sporting events, concerts or bird watching.



14721

#### ATREK II 8×25 DCF

With soft binocular case and neck strap



- Magnification : 8X
- Objective lens diameter : 25mm
- Prism material : BaK4
- Angular field of view : 7.5°
- Apparent FOV : 60.0°
- FOV at 1000m : 131m
- Exit pupil : 3.1mm
- Brightness : 9.6
- Eye relief : 15.0mm
- Close focus : 1.2m (mono-view)
- Interpupillary distance : 57mm to 75mm
- Size : 10.9x11.9x4.0cm
- Weight : 360g / 12.69 oz

### Compact 25mm Aperture

Lightweight compact design with a 25mm objective lens.



14722

#### ATREK II 10×25 DCF

With soft binocular case and neck strap



- Magnification : 10X
- Objective lens diameter : 25mm
- Prism material : BaK4
- Angular field of view : 6.0°
- Apparent FOV : 60.0°
- FOV at 1000m : 105m
- Exit pupil : 2.5mm
- Brightness : 6.3
- Eye relief : 15.0mm
- Close focus : 1.2m (mono-view)
- Interpupillary distance : 57mm to 75mm
- Size : 10.9x11.9x4.0cm
- Weight : 360g / 12.69 oz

### Useful in Lowlight Situations

16.0 Brightness greatly helps in view-ing at dawn and dusk.



14723

#### ATREK II 8×32 DCF

With soft binocular case and neck strap



- Magnification : 8X
- Objective lens diameter : 32mm
- Prism material : BaK4
- Angular field of view : 7.5°
- Apparent FOV : 60.0°
- FOV at 1000m : 131m
- Exit pupil : 4.0mm
- Brightness : 16.0
- Eye relief : 15.0mm
- Close focus : 1.2m (mono-view)
- Interpupillary distance : 57mm to 75mm
- Size : 10.9x11.9x4.3cm
- Weight : 390g / 13.40 oz

### Bigger Magnification

Bigger objective lens for greater mag-nification.



14724

#### ATREK II 10×32 DCF

With soft binocular case and neck strap



- Magnification : 10X
- Objective lens diameter : 32mm
- Prism material : BaK4
- Angular field of view : 6.0°
- Apparent FOV : 60.0°
- FOV at 1000m : 105m
- Exit pupil : 3.2mm
- Brightness : 10.2
- Eye relief : 15.0mm
- Close focus : 1.2m (mono-view)
- Interpupillary distance : 57mm to 75mm
- Size : 10.9x11.9x4.3cm
- Weight : 390g / 13.40 oz

### Perfect Allround Outdoor Binoculars

Bright optics for all outdoor events.



14726

#### ATREK II 8×42 DCF

With soft binocular case and neck strap



- Magnification : 8X
- Objective lens diameter : 42mm
- Prism material : BaK4
- Angular field of view : 7.5°
- Apparent FOV : 60.0°
- FOV at 1000m : 131m
- Exit pupil : 5.3mm
- Brightness : 28.1
- Eye relief : 19mm
- Close focus : 1.3m (mono-view)
- Interpupillary distance : 57mm to 75mm
- Size : 13.5x12.9x5.2cm
- Weight : 690g / 24.34 oz

### Bigger Magnification with Brighter Optics

Bigger objective for a brighter field of view.



14727

#### ATREK II 10×42 DCF

With soft binocular case and neck strap



- Magnification : 10X
- Objective lens diameter : 42mm
- Prism material : BaK4
- Angular field of view : 6.2°
- Apparent FOV : 62°
- FOV at 1000m : 108m
- Exit pupil : 4.2mm
- Brightness : 17.6
- Eye relief : 16mm
- Close focus : 1.3m (mono-view)
- Interpupillary distance : 57mm to 75mm
- Size : 13.5x12.9x5.2cm
- Weight : 700g / 24.69 oz

### Versatile Outdoor Binoculars from bird-watching to stargazing New model with great cost performance

The provided PFM-coating with optimal 6x magnification realizes surprisingly sharp contrast in bright field of view. The inert nitrogen gas purged water-proof construction with hydrophobic coating to repel dirt from lenses is best suited for a variety of outdoor use from bird-watching to stargazing.



14701

#### ATREK Light 6×30 BCF

With soft binocular case and wide neck strap



- Magnification : 6X
- Objective lens diameter : 30mm
- Prism material : BaK4
- Angular field of view : 8.0°
- Apparent FOV : 48.0°
- Exit pupil : 5.0mm
- Eye relief : 18.0mm
- Close focus : 5.0m
- Interpupillary distance : 50mm to 70mm
- Size : 11.5x16.0x5.4cm
- Weight : 500g / 17.64 oz
- FOV at 1000m : 140m
- Brightness : 25

## Binocular Accessories

### Unique Stay On Cases for Vixen Roof Prism Binoculars (patent pending)

#### The Binoculars are Usable Quickly with its Case On

Uncovering the eyepiece side of the binocular case will allow you to look through with its case on.



#### The Case is Attachable to a Camera Tripod

The binocular is usable on a camera tripod with its case on.



#### Soft Binocular Case for Roof Prism Binoculars

It is a binocular protecting case serving both as a carrying case and a stay on case. The case has a UNC 1/4" socket for a camera tripod.



**62501**

#### Stay On Case S

Dimensions : 14,5cm x 13,5cm x 5cm  
Weight : 91g / 3.2 oz

**62502**

#### Stay On Case M

Dimensions : 18,5cm x 15cm x 7cm  
Weight : 125g / 4.4 oz



**62503**

#### Stay On Case L

Dimensions : 19,5cm x 16cm x 7.5cm  
Weight : 137g / 4.8 oz



Sizes of Stay On Case and Binoculars Available		S	M	L
ARTES	ED 8.5 × 45 DCF			⊙
	ED 10.5 × 45 DCF			⊙
ARTES J	ED 8 × 42 DCF		⊙	
	ED 10 × 42 DCF		⊙	
APEX PRO (Discontinued)	8 × 25 DCF	⊙		
	10 × 25 DCF	⊙		
	8 × 42 DCF		⊙	
	10 × 50 DCF			⊙
ATREK (Discontinued)	8 × 25 DCF	⊙		
	10 × 25 DCF	⊙		
	8 × 32 DCF	⊙		
	10 × 32 DCF	⊙		
	10 × 50 DCF			⊙
ATREK II	8 × 25 DCF	⊙		
	10 × 25 DCF	⊙		
	8 × 32 DCF	⊙		
	10 × 32 DCF	⊙		
	8 × 42 DCF		⊙	⊙
NEW FORESTA (Discontinued)	10 × 42 DCF		⊙	⊙
	8 × 32 DCF		⊙	
	10 × 32 DCF		⊙	
	8 × 42 DCF		⊙	⊙
	10 × 42 DCF		⊙	⊙
ALPINA (Discontinued)	8 × 42 DCF		⊙	⊙
	10 × 42 DCF		⊙	⊙
NEW APEX (Discontinued)	8 × 42 DCF		⊙	
	10 × 50 DCF			⊙

⊙ Suitable ○ Possible

### Binocular Accessories for Tripods

Use the Tripod adapters to fix the binoculars on the camera tripod to stabilize the view at high magnification and for prolonged observation.



**1835**

#### Tripod Adapter H

• 1/4" thread

Constructed of Magnesium alloy for lightweight solid construction.



**18441**

#### Tripod Adapter MH

• 1/4" thread

Tripod Adapter		H	MH
ASCOT	8 × 32 ZWCF	⊙	⊙
	8 × 42 ZWCF	⊙	⊙
	7 × 50 ZCF	⊙	⊙
	10 × 50 ZWCF	⊙	⊙
	8-32 × 50 ZCF ZOOM	⊙	⊙
	10 × 50 ZCF SUPER WIDE	⊙	⊙
FORESTA	8 × 32 CF (Discontinued)	⊙	⊙
	8 × 42 CF	⊙	⊙
	10 × 42 CF	⊙	⊙
	7 × 50 CF	⊙	⊙
ULTIMA (Discontinued)	8 × 32 ZWCF	⊙	⊙
	7 × 50 ZCF	⊙	⊙
	9-22 × 50 ZCF ZOOM	⊙	⊙
ARTES	ED 8.5 × 45 DCF	×	⊙
	ED 10.5 × 45 DCF	×	⊙
ARTES J	ED 8 × 42 DCF	⊙	⊙
	ED 10 × 42 DCF	⊙	⊙
SG	SG 6.5 × 32WP	⊙	⊙

⊙ Suitable × Not usable

### Optional Binoculars Accessories for Carry

Usable on strap loops over 6mm in width



**6225**

#### Binocular Neck Strap

• 47.5cm long  
• Made of nylon and artificial leather

Usable on strap loops over 10mm in width



**6244**

#### Binocular Wide Neck Strap

• 64cm long  
• Made of nylon, neoprene and artificial leather

Black strap embroidered with red and yellow stitches, with a brass Vixen logo plate



**62504**

#### LB-49BK Neck Strap

• 49cm long  
• Comes as standard with the HR 6X21 ED Monocular

Binocular Suspender provides comfortable viewing with less neck strain.



**6229**

#### Binocular Suspender

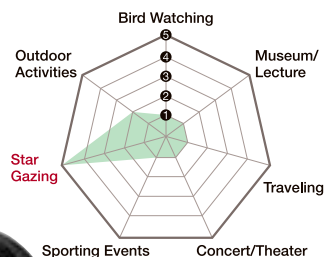
Usable on binoculars with strap loops over 10mm in breadth



# SG 2.1x42

"CONSTELLATION" BINOCULAR

Fun Star Gazing with  
Ultra Wide Field of View



## Enjoy Star-Hopping with Ultra Wide-field SG 2.1x42

The SG 2.1x42 is a handy binocular with a bright 42mm aperture and low 2.1x magnification that is designed and developed for star gazing. Enjoy finding a row of stars in constellations and millions of stars in the Milky Way Galaxy with its ultra wide field of view. The sparkle of beautiful and mysterious stars will never fail to give us a sense of the vastness of the universe.

## All Made in Japan



Every element from lens polishing to machining has been carried out to produce a truly unique binocular of exquisite quality.

19172

## SG 2.1x42

With soft binocular case and neck strap

Fully  
Multi-Coated

- Magnification : 2.1x
- Objective lens diameter : 42mm, fully multicoated optics
- Eye relief : See below.
- Close focus : 2m
- Interpupillary distance : from 55mm to 74mm
- Size : 4.6cm x 12.8cm x 5.4cm
- Weight : 410 g / 1.44 oz
- With soft case and neck strap
- Individual focusing
- Corrected vision of 20/20 may be required to focus at infinity
- The whole field of view is not visible if wearing eyeglasses



Soft Case

Note:

The SG 2.1x42 binocular uses an optical design of a Galilean type telescope system. With the characteristics of this system, real field of view, apparent field of view and eye relief are not determined strictly. Although only the eye relief is described in the specifications of this product mainly, it is indicated as reference for the person who wears glasses.

### <Reference specifications>

Actual field of view : 12.2 degrees

Apparent field of view : 25.2 degrees

Eye relief : 8.4mm\*

\* The values of the actual field of view and apparent field of view are measured based on an 8.4mm eye relief. If the distance of the eye relief decreases to 5.6mm, the apparent field of view will increase to 28 degrees (the actual field of view will be 13.6 degrees.) Therefore, these vary with your viewing position.

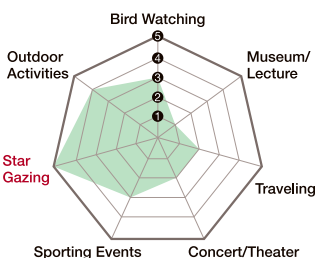
# SG 6.5x32WP

ASTRONOMY BINOCULAR

Experience the Edge-to-Edge  
Sharp View

## Ultimate Astronomy Binocular

The SG 6.5x32WP is the next step up from the SG 2.1x42. It was designed and developed at the request of star gazers, Using ED glass, high quality prisms and cutting edge coating technologies, this binocular is perfect for viewing at very low light conditions. No loss of light results when delivering extremely sharp and clear images.



## Ten remarkable features of the SG 6.5x32WP

- ED glass is used to eliminate all hints of false color.
- Flat and high light transmission characteristics throughout the wavelength of star spectrums by means of seven layers special multi-coatings.
- High reflective silver and dielectric coatings on the sub roof prisms produce the maximum reflectivity.
- The sub roof prism is made of less light-absorption glass to keep high transmission of light for collecting subtle light from faint stars.
- The roof prisms are phase coated to reduce halation and increase resolution for clear and high contrast images.
- The travel of focusing becomes slower around infinity focus where you view celestial objects to allow for fine focus adjustments.
- The ergonomic gripping body makes you hold the binocular snug when you aim at upward.
- The knurled focus wheels are turned steadily with wearing gloves.
- The large aperture eyepiece offers your eyes a comfortable viewing position
- The light weight but solid binocular body is made of magnesium alloy and waterproof for serious outdoor use.



19173

## SG 6.5x32WP

With soft binocular case and neck strap



- Magnification : 6.5X
- Objective lens diameter : 32mm
- Prism material : BK7
- Angular field of view : 9.0°
- Apparent FOV : 58.5°
- FOV at 1000m : 157m
- Exit pupil : 4.9mm
- Brightness : 24.0
- Eye relief : 20.0mm
- Close focus : 6.0m
- Interpupillary distance : 56mm to 76mm
- Size : 14.0x13.2x4.8cm
- Weight : 610g / 21.5 oz



# Saqras

Saqras

## The Binoculars incorporating Japan's Traditional Beauty, Focusing on Color, Shape and Materials

The SAQRAS Bincoculars were originally designed for watching Japanese traditional cultural plays and arts, such as Kabuki, Noh, Kyogen or Bunraku. They are well suited for all theater or concert goers. The anodized aluminum body displays a gracious beauty with the color of mountain cherry blossoms. The two axis body has an easily adjustable interpupillary range of 30mm to 82mm. Easily accommodates to all users. Its

compact size allows it to be stored in a purse or pocket. This sturdy binocular features fine soft rubber eye cups for eyeglass wearers.

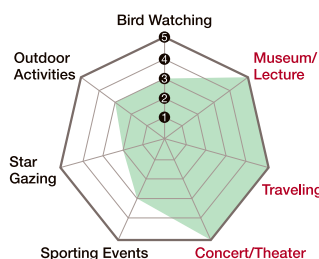


**16481**

### Saqras 6×16 DCF

Multi-Coated Roof Prism

- Magnification : 6X
- Objective lens diameter : 16mm
- Prism material : BK7
- Angular field of view : 8.3°
- Apparent FOV : 49.8°
- FOV at 1000m : 145m
- Exit pupil : 2.7mm
- Brightness : 7.3
- Eye relief : 14.0mm
- Close focus : 3.2m
- Interpupillary distance : 30mm to 82mm
- Size : 7.7x6.1x3.7cm
- Weight : 145g / 5.12 oz

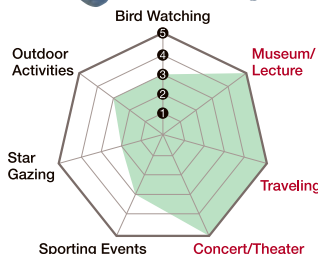
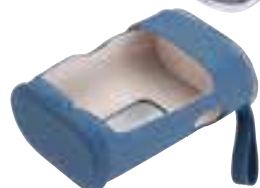


# Meglass

Meglass

## Ideal for travelers observing nature, art or architecture.

Stylish metal body created by fine anodized aluminum process in Japan. Deluxe genuine leather used for hand-holding section delivers excellent grip comfort. Specially designed soft case with same deluxe genuine leather for hand-holding section offers comfortable storage of the binoculars. Two-axis body construction permits a wide range of interpupillary adjustment. Soft rubber eye-cup allows a direct view while wearing glasses.



**16485**

### MEGLASS 6×16 DCF

With genuine leather case and neck strap

Multi-Coated Roof Prism

- Magnification : 6X
- Objective lens diameter : 16mm
- Prism material : BK7
- Angular field of view : 8.3°
- Apparent FOV : 49.8°
- FOV at 1000m : 145m
- Exit pupil : 2.7mm
- Brightness : 7.3
- Eye relief : 14.0mm
- Close focus : 3.2m
- Interpupillary distance : 30mm to 82mm
- Size : 7.7x6.1x3.7cm
- Weight : 140g / 4.94 oz

\*The specifications are subject to change without notice.

High Grade

Select

Compact

Spotting Scope

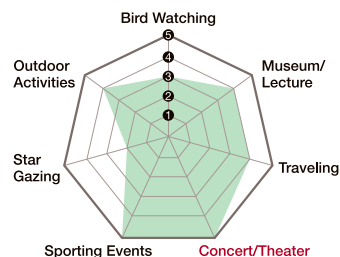
Magnifier



# ATREK COLOR

ATREK COLOR Series

The Stylish Colorful Compact  
Precision Roof Prism Binoculars



(Green)



(Blue)



(Yellow)



(Purple)



(Pink)

**NEW**

**55011** (Pink)

**55012** (Blue)

**55013** (Green)

**55014** (Yellow)

**55015** (Purple)

**ATREK COLOR H8×21 WP**

With soft case and ribbon neck strap



- Magnification : 8X
- Objective lens diameter : 21mm
- Prism material : BK7
- Angular field of view : 6.3°
- Apparent FOV : 50.4°
- FOV at 1000m : 110m
- Exit pupil : 2.6mm
- Brightness : 6.8
- Eye relief : 11.0mm
- Close focus : 3.6m
- Interpupillary distance : 40mm to 71mm
- Size : 8.9x7.3x4.9cm
- Weight : 210g / 7.4 oz

## Optional Accessories for ATREK COLOR-series

Sporty and stylish stretchable binoculars cases for ATREK COLOR-series binoculars.

Every case is available in color coordination with the ATREK COLOR binoculars.



(Pink)

(Green)



(Yellow)



(Blue)



(Purple)

- 62531** Pink  
**62532** Green  
**62533** Blue  
**62534** Yellow  
**62535** Purple

### Stretch Binoculars Case

- Size : 4.5x15x5-12cm (Body), 64-120cm (Strap)
- Weight : 62g / 2.19 oz (Strap: 30g / 1.06 oz)

Colorful Slim Pouch for Binocular



- 6228** Pink  
**6227** Blue  
**6230** Grey  
**6218** Green  
**6209** Moss Green

### Non-woven Cloth Bag

- Size : 14x14x1cm

Ribbon Neck Strap with Quick Release



- 6219** Pink  
**6231** Blue  
**6232** Gray

### Ribbon Neck Strap

- Length : 40cm



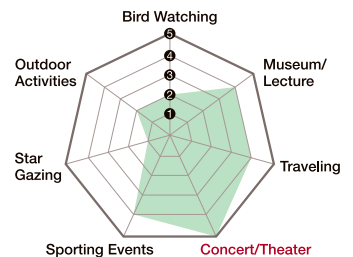
**12746**

### JOYFUL H6X18 DCF

With soft case and neck strap

Porro Prism

- Magnification : 6X
- Objective lens diameter : 18mm
- Magenta-coated on objectives and eyepieces
- Prism material : BK7
- Angular field of view : 8.0°
- Apparent FOV : 48.0°
- FOV at 1000m : 140m
- Exit pupil : 3.0mm
- Brightness : 9.0
- Eye relief : 10.0mm
- Close focus : 2.5m
- Interpupillary distance : 31mm to 72mm
- Size : 8.2x6.0x4.5cm
- Weight : 180g / 6.35 oz



### Stylish Color Binoculars for entry level



**13493** (Bordeaux red)

### JOYFUL M8X21 CF

With soft case and neck strap

Porro Prism

- Magnification : 8X
- Objective lens diameter : 21mm
- Multi-coated on objectives
- Prism material : BK7
- Angular field of view : 7.0°
- Apparent FOV : 56.0°
- FOV at 1000m : 122m
- Exit pupil : 2.6mm
- Brightness : 6.8
- Eye relief : 10.0mm
- Close focus : 1.6m
- Interpupillary distance : 57mm to 71mm
- Size : 8.2x10.8x4.1cm
- Weight : 178g / 6.27 oz

### Natural Color Body with High Magnification for Outdoor



**13494** (Olive green)

### JOYFUL M10X21 CF

With soft case and neck strap

Porro Prism

- Magnification : 10X
- Objective lens diameter : 21mm
- Multi-coated on objectives
- Prism material : BK7
- Angular field of view : 6.5°
- Apparent FOV : 65.0°
- FOV at 1000m : 114m
- Exit pupil : 2.1mm
- Brightness : 4.4
- Eye relief : 7.0mm
- Close focus : 1.6m
- Interpupillary distance : 57mm to 71mm
- Size : 8.2x10.8x4.1cm
- Weight : 176g / 6.2 oz

### Zoom Binoculars for Various Use



**12742**

### JOYFUL M7-21X21 CF ZOOM

With soft case and neck strap

Zoom

Porro Prism

- Magnification : 7X to 21X
- Objective lens diameter : 21mm
- Multi-coated on objectives
- Prism material : BK7
- Angular field of view : 4.3° to 2.3°
- Apparent FOV : 30.1° to 48.3°
- FOV at 1000m : 75m to 40m
- Exit pupil : 3.0mm to 1.0mm
- Brightness : 9.0-1.0
- Eye relief : 12.0mm to 9.0mm
- Close focus : 3.5m
- Interpupillary distance : 56mm to 73mm
- Size : 9.2x10.8x4.8cm
- Weight : 265g / 9.34 oz

## COMPACT ZOOM

COMPACT ZOOM Series

**Very Compact Zoom Binoculars. Needless to care about image vibration by hands at high magnification using the supplied tripod adapter.**



**1305**

### 7-20X21 CF ZOOM

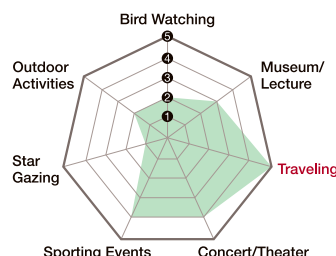
With soft case, neck strap and tripod adapter

Zoom Multi-Coated Porro Prism Tripod Adaptable

- Magnification : 7X to 20X
- Objective lens diameter : 21mm
- Prism material : BaK4
- Angular field of view : 4.8° to 2.7°
- Apparent FOV : 34.0° to 54.0°
- FOV at 1000m : 86m to 47m
- Exit pupil : 3.0mm to 1.1mm
- Brightness : 9.0-1.2
- Eye relief : 13.0mm to 9.0mm
- Close focus : 3.0m
- Interpupillary distance : 59mm to 71mm
- Size : 9.7x10.5x4.4cm
- Weight : 230g / 8.11 oz

Tripod adapter

## Ideal Travel Companion for all your Sightseeing Adventure



**1306**

### 10-30X21 CF ZOOM

With soft case, neck strap and tripod adapter

Zoom Multi-Coated Porro Prism Tripod Adaptable

- Magnification : 10X to 30X
- Objective lens diameter : 21mm
- Prism material : BaK4
- Angular field of view : 3.3° to 1.8°
- Apparent FOV : 33.0° to 54.0°
- FOV at 1000m : 58m to 31m
- Exit pupil : 2.1mm to 0.7mm
- Brightness : 4.4-0.5
- Eye relief : 14.0mm to 8.0mm
- Close focus : 3.0m
- Interpupillary distance : 59mm to 71mm
- Size : 9.7x10.5x4.4cm
- Weight : 230g / 8.11 oz

Tripod adapter



The ATERA is provided with a vibration canceller system which delivers constantly stable views by compensating fine movement by your hands over the entire magnification. The slide switch used for the power source eliminates the need to keep pushing the switch during use. For energy saving, the auto power-off function automatically switches off power after five minutes of no motion.

All the lens surfaces are fully-multicoated to enhance light transmission for higher contrast images. The prism is phase-coated to dramatically improve resolution by reducing halation. The high reflectivity dielectric coating maximizes reflection to produce clearer and brighter views. The Vibration-Canceller performs extremely well not only in concerts and festivals, but also for stargazing without using tripod and for appreciation of fine details of arts and exhibits in museums.

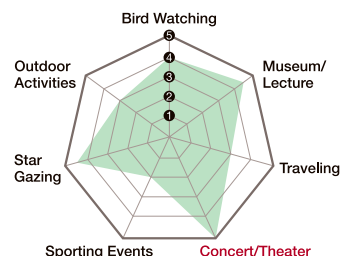
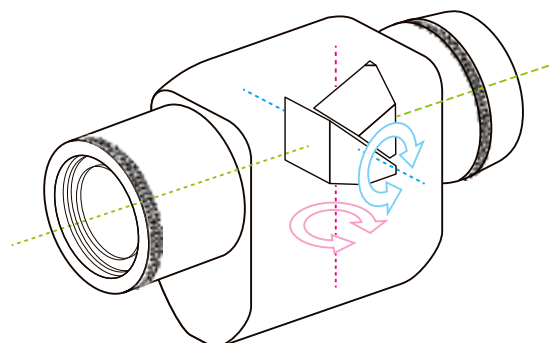
The Vibration-Canceller outperforms not only in concerts and festival, but also in stargazing without using tripod and appreciation of fine details of arts and exhibits in museums away from objects.

### Vibration-Canceller™ System

ATERA employs two vibration cancellation systems to reduce any vibration.

Ⓐ Prism is located at the gimbal rotating base which moves horizontally and vertically. Vibration is cancelled by inertia moment where the prism remains still when vibration arises.

Ⓑ Detecting a blurred image by the sensor, the prism adjusts direction to display a static image to absorb fine vibration and realize a stable field of view. The interaction of Ⓐ and Ⓑ produces a vibration compensation of about  $\pm 3^\circ$  in both vertical and horizontal directions.



(Champagne Gold)



(Powder Pink)

**NEW**

**11491** Powder Pink

**11492** Champagne Gold

### ATERA H6-12x25 Zoom Monocular

With soft case and neck strap

**Zoom**

**Fully Multi-Coated**

**Phase Coating**

**High-Reflectivity Coating**

**Vibration-Canceller System**

**Roof Prism**

- Magnification : 6X to 12X
- Objective lens diameter : 25mm
- Prism material : BK7 / BaK4
- Angular field of view : 5.6° to 4.0°
- Apparent FOV : 33.6° to 48.0°
- FOV at 1000m : 98m to 70m
- Exit pupil : 4.2mm to 2.1mm
- Brightness : 17.6-4.4
- Eye relief : 24mm to 17mm
- Close focus : 2.5m
- Battery duration : Approx. 30 hours
- Size : 14.0x7.0x4.5cm
- Weight : 310g / 10.93 oz

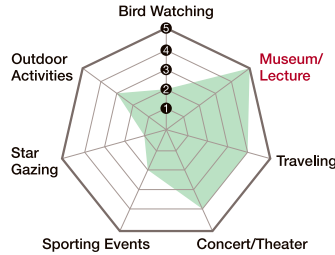


# MONOCULARS

Monoculars Series

Take them everywhere to Minimize distance and Maximize Detail

Our top monocular, Japanese made with ED Glass. The cutting edge coatings and manufacturing materials deliver the ultimate high-definition and true-to-life images.



11485

## ARTES HR 6×21 ED Monocular

With hard case and LB-49BK neck strap



- Magnification : 6X
- Objective lens diameter : 21mm
- Prism material : BaK4 / SK15
- Angular field of view : 8.7°
- Apparent FOV : 52.2°
- FOV at 1000m : 152m
- Exit pupil : 3.5mm
- Brightness : 12.3
- Eye relief : 17.5mm
- Close focus : 0.6m
- Size : 3.5x3.5x10.2cm
- Weight : 147g / 5.18 oz



11483

## JOYFUL H 7-21×21 Zoom Monocular

With soft case and neck strap



- Magnification : 7X to 21X
- Objective lens diameter : 21mm
- Multi-coated on objective
- Prism material : BK7
- Angular field of view : 4.5° to 2.3°
- Apparent FOV : 31.5° to 48.3°
- FOV at 1000m : 79m to 40m
- Exit pupil : 3.0mm to 1.0mm
- Brightness : 9.0-1.0
- Eye relief : 11.0mm to 8.0mm
- Close focus : 4.5m
- Size : 10.6x3.9x3.3cm
- Weight : 77g / 2.71 oz

The extended 15mm long eye-relief for eyeglass wearer, allowing 20cm close focus

11105

## MULTI MONOCULAR 4×12

With soft case and neck strap  
Usable as 12X magnifier using optional Multi Monocular Microscope Stand



- Magnification : 4X
- Objective lens diameter : 12mm
- Prism material : BK7
- Angular field of view : 11.5°
- Apparent FOV : 46.0°
- FOV at 1000m : 201m
- Exit pupil : 3.0mm
- Brightness : 9.0
- Eye relief : 15.0mm
- Close focus : 0.2m
- Size : 5.8x3.1x3.3cm
- Weight : 60g / 2.11 oz



The most versatile 6x magnification

11121

## MULTI MONOCULAR 6×16

With soft case and neck strap  
Usable as 18X magnifier using optional Multi Monocular Microscope Stand



- Magnification : 6X
- Objective lens diameter : 16mm
- Prism material : BK7
- Angular field of view : 9.3°
- Apparent FOV : 55.8°
- FOV at 1000m : 163m
- Exit pupil : 2.7mm
- Brightness : 7.3
- Eye relief : 12.0mm
- Close focus : 0.25m
- Size : 7.0x3.1x3.5cm
- Weight : 65g / 2.29 oz



Biggest magnification with 25cm close focus

11122

## MULTI MONOCULAR 8×20

With soft case and neck strap  
Usable as 24X magnifier using optional Multi Monocular Microscope Stand



- Magnification : 8X
- Objective lens diameter : 20mm
- Prism material : BK7
- Angular field of view : 6.8°
- Apparent FOV : 54.4°
- FOV at 1000m : 122m
- Exit pupil : 2.5mm
- Brightness : 6.3
- Eye relief : 11.0mm
- Close focus : 0.25m
- Size : 10.2x3.1x3.5cm
- Weight : 80g / 2.82 oz



Quickly convert your monocular to a microscope with this handy stand.

7106

## Multi Monocular Microscope Stand

Attach the multi monocular for use as a handy microscope  
Increases the original magnification of the Multi Monocular by 3 times



\*The specifications are subject to change without notice.

High Grade

Select

Compact

Spotting Scope

Magnifier

# Binoculars / Monoculars Specifications

		Model	Magnification	Objective Lens	Prisms	Coatings	Angular field of view	Apparent FOV
P 4 5		ARTES ED 8.5×45 DCF	8.5X	45mm	BaK4 / SK15	Flat Multi-Coated, Phase-Coated, Ultra High Reflectivity Coating, Hydrophobic Coating	7.0°	59.5° (54.9°*)
		ARTES ED 10.5×45 DCF	10.5X	45mm	BaK4 / SK15	Flat Multi-Coated, Phase-Coated, Ultra High Reflectivity Coating, Hydrophobic Coating	6.0°	63.0° (57.6°*)
		ARTES J ED 8×42 DCF	8X	42mm	BaK4	Fully Multi-Coated, Phase-Coated, High Reflectivity Coating, Hydrophobic Coating	7.0°	56.0° (52.1°*)
		ARTES J ED 10×42 DCF	10X	42mm	BaK4	Fully Multi-Coated, Phase-Coated, High Reflectivity Coating, Hydrophobic Coating	6.0°	60.0° (55.3°*)
P 6		NEW APEX 8×24 DCF	8X	24mm	BaK4	Fully Multi-Coated	6.2°	49.6° (46.9°*)
		NEW APEX 10×28 DCF	10X	28mm	BaK4	Fully Multi-Coated	5.0°	50.0° (47.2°*)
		NEW APEX 12×30 DCF	12X	30mm	BaK4	Fully Multi-Coated	4.2°	50.4° (47.5°*)
P 6		FORESTA 8×42 CF	8X	42mm	BaK4	Fully Multi-Coated	7.5°	60.0° (55.3°*)
		FORESTA 10×42 CF	10X	42mm	BaK4	Fully Multi-Coated	6.0°	60.0° (55.3°*)
		FORESTA 7×50 CF	7X	50mm	BaK4	Fully Multi-Coated	7.1°	49.7° (46.9°*)
P 7		ASCOT 8×32 ZWCF	8X	32mm	BaK4	PFM Coating	8.2°	65.6° (59.7°*)
		ASCOT 8×42 ZWCF	8X	42mm	BaK4	PFM Coating	8.2°	65.6° (59.7°*)
		ASCOT 7×50 ZCF	7X	50mm	BaK4	PFM Coating	6.4°	44.8° (42.7°*)
		ASCOT 10×50 ZWCF	10X	50mm	BaK4	PFM Coating	6.5°	65.0° (59.2°*)
		ASCOT 8-32×50 ZCF ZOOM	8X to 32X	50mm	BaK4	PFM Coating	4.2° to 2.0°	33.6° to 64.0° (32.7° to 58.4°*)
		ASCOT 10×50 ZCF SUPER WIDE	10X	50mm	BaK4+Mirror	Multi-Coated	8.5°	85.0° (73.2°*)
P 8		ATREK II 8×25 DCF	8X	25mm	BaK4	PFM Coating	7.5°	60.0° (55.3°*)
		ATREK II 10×25 DCF	10X	25mm	BaK4	PFM Coating	6.0°	60.0° (55.3°*)
		ATREK II 8×32 DCF	8X	32mm	BaK4	PFM Coating	7.5°	60.0° (55.3°*)
		ATREK II 10×32 DCF	10X	32mm	BaK4	PFM Coating	6.0°	60.0° (55.3°*)
		ATREK II 8×42 DCF	8X	42mm	BaK4	PFM Coating	7.5°	60.0° (55.3°*)
		ATREK II 10×42 DCF	10X	42mm	BaK4	PFM Coating	6.2°	62.0° (56.9°*)
	ATREK Light	ATREK Light 6×30 BCF	6X	30mm	BaK4	PFM Coating, Hydrophobic Coating	8.0°	48.0° (45.5°*)
P 10	Constellation Binoculars	SG 2.1×42	2.1X	42mm	———	Fully Multi-Coated	———	———
P 10	Astronomy Binoculars	SG 6.5×32WP	6.5X	32mm	BK7	Flat Multi-Coated, Phase-Coated, Ultra High Reflectivity Coating	9.0°	58.5° (54.2°*)
P 11	Saqras	Saqras 6×16 DCF	6X	16mm	BK7	Multi-Coated	8.3°	49.8° (47.1°*)
P 11	Meglass	Meglass 6×16 DCF	6X	16mm	BK7	Multi-Coated	8.3°	49.8° (47.1°*)
P 12	ATREK COLOR	ATREK COLOR H8×21 WP	8X	21mm	BK7	Multi-Coated (Objectives/Eyepieces)	6.3°	50.4° (47.5°*)
P 13		JOYFUL H6×18 DCF	6X	18mm	BK7	Magenta-Coated (Objectives/Eyepieces)	8.0°	48.0° (45.5°*)
		JOYFUL M8×21 CF	8X	21mm	BK7	Multi-Coated (Objectives)	7.0°	56.0° (52.1°*)
		JOYFUL M10×21 CF	10X	21mm	BK7	Multi-Coated (Objectives)	6.5°	65.0° (59.2°*)
		JOYFUL M7-21×21 CF ZOOM	7X to 21X	21mm	BK7	Multi-Coated (Objectives)	4.3° to 2.3°	30.1° to 48.3° (29.4° to 45.7°*)
P 13	COMPACT ZOOM	7-20×21 CF ZOOM	7X to 20X	21mm	BaK4	Multi-Coated	4.8° to 2.7°	34.0° to 54.0° (32.7° to 50.5°*)
		10-30×21 CF ZOOM	10X to 30X	21mm	BaK4	Multi-Coated	3.3° to 1.8°	33.0° to 54.0° (32.1° to 50.5°*)
P 14	ATERA	ATERA H6-12×25 Zoom Monocular	6X to 12X	25mm	BK7 / BaK4	Fully Multi-Coated, Phase-Coated, High Reflectivity Coating	5.6° to 4.0°	33.6° to 48.0° (32.7° to 45.5°*)
P 15		ARTES HR 6×21 ED Monocular	6X	21mm	BaK4 / SK15	Flat Multi-Coated, Phase-Coated, Ultra High Reflectivity Coating, Hydrophobic Coating	8.7°	52.2° (49.1°*)
		H 7-21×21 Zoom Monocular	7X to 21X	21mm	BK7	Multi-Coated (Objectives)	4.5° to 2.3°	31.5° to 48.3° (30.7° to 45.7°*)
		MULTI MONOCULAR 4×12	4X	12mm	BK7	Fully Multi-Coated	11.5°	46.0° (43.9°*)
		MULTI MONOCULAR 6×16	6X	16mm	BK7	Fully Multi-Coated	9.3°	55.8° (52.0°*)
		MULTI MONOCULAR 8×20	8X	20mm	BK7	Fully Multi-Coated	6.8°	54.4° (50.8°*)

Note : The SG 2.1×42 binocular uses an optical design of a Galilean type telescope system. With the

FOV at 1000m	Exit Pupil	Brightness	Eye Relief	Close Focus	Interpupillary Distance	Dimensions	Weight	Tripod Adaptability (1/4"-20 socket)	Other features
122m	5.3mm	28.1	17.5mm	2.2m	56mm to 74mm	15.6×13.4×5.9cm	885g / 31.2 oz	Available (MH) (L)	Waterproof
105m	4.3mm	18.5	15.0mm	2.2m	56mm to 74mm	15.6×13.4×5.9cm	885g / 31.2 oz	Available (MH) (L)	Waterproof
122m	5.3mm	28.1	19.0mm	3.0m	56mm to 75mm	14.6×13.0×5.3cm	700g / 24.69 oz	Available (M)	Waterproof
105m	4.2mm	17.6	17.0mm	3.0m	56mm to 75mm	14.6×13.0×5.3cm	700g / 24.69 oz	Available (M)	Waterproof
108m	3.0mm	9.0	12.0mm	5.0m	35mm to 70mm	9.5×6.7×4.3cm	220g / 7.76 oz	Not available	Waterproof
87m	2.8mm	7.8	12.0mm	4.0m	35mm to 70mm	10.7×6.7×4.3cm	245g / 8.64 oz	Not available	Waterproof
73m	2.5mm	6.3	12.0mm	5.0m	35mm to 70mm	12.3×6.7×4.3cm	270g / 9.52 oz	Not available	Waterproof
131m	5.3mm	28.1	21.0mm	4.0m	56mm to 71mm	14.5×18.0×5.5cm	790g / 27.86 oz	Available (H-MH)	Waterproof
105m	4.2mm	17.6	20.0mm	4.0m	56mm to 71mm	14.5×18.0×5.5cm	790g / 27.86 oz	Available (H-MH)	Waterproof
124m	7.1mm	50.4	20.0mm	6.0m	56mm to 71mm	18.0×19.0×6.5cm	930g / 32.8 oz	Available (H-MH)	Waterproof
143m	4.0mm	16.0	15.0mm	4.5m	59mm to 72mm	11.3×17.7×5.8cm	830g / 29.27 oz	Available (H-MH)	Waterproof, Wide field of view
143m	5.3mm	28.1	18.0mm	6.0m	58mm to 71mm	13.3×18.1×5.9cm	870g / 30.68 oz	Available (H-MH)	Waterproof, Wide field of view
112m	7.1mm	50.4	17.0mm	9.0m	59mm to 72mm	17.0×18.8×6.3cm	1015g / 35.8 oz	Available (H-MH)	Waterproof
113m	5.0mm	25.0	18.0mm	9.0m	59mm to 72mm	17.0×18.8×6.3cm	1040g / 36.68 oz	Available (H-MH)	Waterproof, Wide field of view
73m to 35m	6.3mm to 1.6mm	39.7 to 2.6	14.0mm to 11.0mm	19.5m	58mm to 72mm	19.4×18.8×6.3cm	1025g / 36.15 oz	Available (H-MH)	———
148m	5.0mm	25.0	7.0mm	5.7m	59mm to 72mm	15.5×18.0×7.6cm	875g / 30.86 oz	Available	Ultra Wide Field of View
131m	3.1mm	9.6	15.0mm	1.2m	57mm to 75mm	10.9×11.9×4.0cm	360g / 12.69 oz	Available (S)	Waterproof
105m	2.5mm	6.3	15.0mm	1.2m	57mm to 75mm	10.9×11.9×4.0cm	360g / 12.69 oz	Available (S)	Waterproof
131m	4.0mm	16.0	15.0mm	1.2m	57mm to 75mm	10.9×11.9×4.3cm	390g / 13.4 oz	Available (S)	Waterproof
105m	3.2mm	10.2	15.0mm	1.2m	57mm to 75mm	10.9×11.9×4.3cm	390g / 13.4 oz	Available (S)	Waterproof
131m	5.25mm	27.6	19.0mm	1.3m	57mm to 75mm	13.5×12.5×4.9cm	688g / 24.27 oz	Available (S)	Waterproof
109m	4.2mm	17.6	16.0mm	1.3m	57mm to 75mm	13.5×12.5×4.9cm	694g / 24.48 oz	Available (S)	Waterproof
140m	5.0mm	25.0	18.0mm	5.0m	50mm to 70mm	11.5×16.0×5.4cm	500g / 17.64 oz	Not available	Waterproof
———	———	———	8.4mm (Note)	2.0m	55mm to 74mm	4.6×12.8×5.4cm	410g / 14.4 oz	Not available	———
157m	4.9mm	24.0	20.0mm	6.0m	56mm to 76mm	14.0×13.2×4.8cm	610g / 21.5 oz	Available (H-MH) (M)	Waterproof
145m	2.7mm	7.3	14.0mm	3.2m	30mm to 82mm	7.7×6.1×3.7cm	145g / 5.12 oz	Not available	———
145m	2.7mm	7.3	14.0mm	3.2m	30mm to 82mm	7.7×6.1×3.7cm	140g / 4.94 oz	Not available	———
110m	2.6mm	6.8	11.0mm	3.6m	40mm to 71mm	8.9×7.3×4.9cm	210g / 7.4 oz	Not available	Waterproof
140m	3.0mm	9.0	10.0mm	2.5m	31mm to 72mm	8.2×6.0×4.5cm	180g / 6.35 oz	Not available	———
122m	2.6mm	6.8	10.0mm	1.6m	57mm to 71mm	8.2×10.8×4.1cm	178g / 6.27 oz	Not available	———
114m	2.1mm	4.4	7.0mm	1.6m	57mm to 71mm	8.2×10.8×4.1cm	176g / 6.2 oz	Not available	———
75m to 40m	3.0mm to 1.0mm	9.0 to 1.0	12.0mm to 9.0mm	3.5m	56mm to 73mm	9.2×10.8×4.8cm	265g / 9.34 oz	Not available	———
86m to 47m	3.0mm to 1.1mm	9.0 to 1.2	13.0mm to 9.0mm	3.0m	59mm to 71mm	9.7×10.5×4.4cm	230g / 8.11 oz	Available (V)	Binoholder V supplied
58m to 31m	2.1mm to 0.7mm	4.4 to 0.5	14.0mm to 8.0mm	3.0m	59mm to 71mm	9.7×10.5×4.4cm	230g / 8.11 oz	Available (V)	Binoholder V supplied
98m to 70m	4.2mm to 2.1mm	17.6 to 4.4	24.0mm to 17.0mm	2.5m	———	14.0×7.0×4.5cm	310g / 10.93 oz	Not available	Anti-Vibration
152m	3.5mm	12.3	17.5mm	0.6m	———	3.5×3.5×10.2cm	147g / 5.18 oz	Not available	———
79m to 40m	3.0mm to 1.0mm	9.0 to 1.0	11.0mm to 8.0mm	4.5m	———	10.6×3.9×3.3cm	77g / 2.71 oz	Not available	———
201m	3.0mm	9.0	15.0mm	20.0cm	———	5.8×3.1×3.3cm	60g / 2.11 oz	Not available	———
163m	2.7mm	7.3	12.0mm	25.0cm	———	7.0×3.1×3.5cm	65g / 2.29 oz	Not available	———
122m	2.5mm	6.3	11.0mm	25.0cm	———	10.2×3.1×3.5cm	80g / 2.82 oz	Not available	———

The value of Apparent FOV marked with \* is calculated by formula  $\tan \omega' = \tan \omega \times \tau$  (A FOV :  $2\omega'$ , AFV :  $2\omega$ , Magnification :  $\tau$ ) according to JIS B7157:2003. characteristics of this system, real field of view, apparent field of view and eye relief are not determined strictly. The eye-relief is described in this catalog for only reference purpose of glass-wearers.

\*The specifications are subject to change without notice.

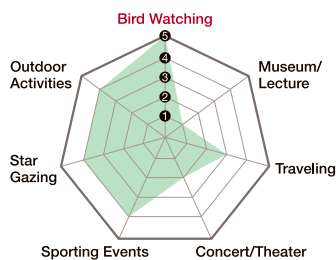
# Spotting Scopes

## GEOMA II ED

GEOMA II ED 52-S

### Premium Quality in Extremely Compact Body New Style of Compact Multi-Purpose Scope

A unique compact design with a special hand-holding case that allows you to use your scope in one hand anywhere you travel. Despite its compact design, the optics have multi-coated ED (Extra-low dispersion) lens that ensures extraordinary sharp and high contrast images. This scope can also be used as a telephoto lens when attached to a camera using an optional digital camera adapter.



Push the objective barrel close for carry and storage.



Pull out the objective barrel to use.

### The Finest Roof Prism Binoculars The Pinnacle of Performance in Sports Optics



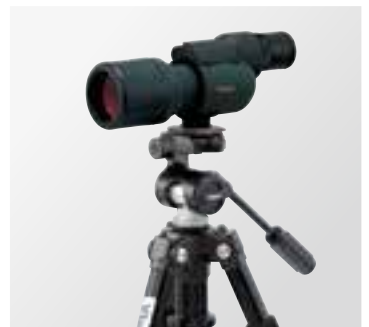
The ED objective lens provides clear and high contrast images free of chromatic aberration.



Using optional Universal Digital Camera Adapter II, it can be used as a super telephoto lens.



The scope is supplied with the wide-angle GLH20D eyepiece, but interchangeable with a variety of optional eyepieces for your desired magnifications.



For long time and stable viewing, it can be attached on a tripod, particularly at bigger magnification.

18052

### GEOMA II ED 52-S

Image shows with optional GLH20D eyepiece.  
With hand-holding case (without eyepiece)

ED Lens Multi-Coated Straight Viewing

- Type : Straight viewing
- Objective lens diameter : 52mm
- Focal length : 278mm
- Height x length :  
10.2cm x 17.7cm (the shortest)  
10.2cm x 21.7mm (extended for use)
- Weight : 486g / 17.14 oz

18053

### GEOMA II ED 52-S Set

Image shows with supplied GLH20D eyepiece.  
With GLH20D eyepiece and hand-holding case

ED Lens Multi-Coated Straight Viewing

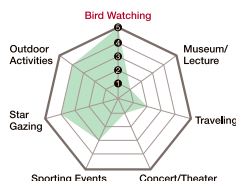
- Main Body : Same as GEOMA II ED52-S  
Specifications with GLH20D eyepiece:
- Magnification : 14x (GLH20D eyepiece)
  - Eye relief : 18.0mm
  - Angular field of view : 3.3°
  - Apparent FOV: 46.0°
  - FOV at 1000m : 58m
  - Exit pupil : 3.7mm
  - Brightness : 13.7
  - Close focus : 4.0m



# GEOMAI<sup>II</sup> ED

GEOMAI<sup>II</sup> ED Series

The Flagship of the GEOMA Spotting Scope Series  
incorporating "ED" Lens for Excellent Color Correction



18092

## GEOMAI<sup>II</sup> ED 67-S

Image shows with optional GLH20D eyepiece.  
With hand-holding case (without eyepiece)



- Type : Straight viewing
- Objective lens diameter : 67mm
- Focal length : 386mm
- Height x length : 12cm x 33cm
- Weight : 1010g / 36.62 oz

18093

## GEOMAI<sup>II</sup> ED 67-S Set

Image shows with supplied GLH20D eyepiece.  
With GLH20D eyepiece and hand-holding case

- Main Body : Same as GEOMA II ED67-S  
Specifications with GLH20D eyepiece :
- Magnification : 20x (GLH20D eyepiece)
  - Eye relief : 18.0mm
  - Apparent FOV : 72.0°
  - Exit pupil : 3.4mm
  - Close focus : 4.0m
  - Angular field of view : 3.6°
  - FOV at 1000m : 54m
  - Brightness : 11.6

18072

## GEOMAI<sup>II</sup> ED 82-S

Image shows with optional GLH20D eyepiece.  
With case (without eyepiece)



- Type : Straight viewing
- Objective lens diameter : 82mm
- Focal length : 514mm
- Height x length : 11.8cm x 36.4cm
- Weight : 1330g / 46.91 oz

18073

## GEOMAI<sup>II</sup> ED 82-S Set

Image shows with supplied GLH20D eyepiece.  
With GLH20D eyepiece and case

- Main Body : Same as GEOMA II ED 82-S  
Specifications with GLH20D eyepiece :
- Magnification : 27x (GLH20D eyepiece)
  - Eye relief : 18.0mm
  - Apparent FOV : 70.2°
  - Exit pupil : 3.0mm
  - Close focus : 10.0m
  - Angular field of view : 2.6°
  - FOV at 1000m : 45m
  - Brightness : 9.0

## Digiscoping Photographic Accessories

### A Basic Configuration of Digiscoping and Tips on Photography

#### ④ Digital Camera Adapter

When you view your target object on the screen of a compact digital camera through a spotting scope, the optical axes of both the camera and spotting scope must be aligned. If they are not aligned, it will result in vignetting or image deterioration. The digital camera adapter allows you to set your camera in place. For details, refer to page 20.



#### ② Eyepiece

Eyepieces with long eye relief are recommended to minimize image deterioration or vignetting around the edge of the screen of your digital camera. Eyepieces with a wide apparent field of view are also recommended for Digiscoping.

\*Eye relief is distance that you can view the full field of view comfortably from the eye.



#### ⑤ Compact Digital Camera

#### ③ Balance Plate

Your spotting scope may be unbalanced when a digital camera is mounted on the digital camera adapter on the visual back of the spotting scope. Set the balance plate between the pan head and the spotting scope to shift the position of scope until balance is achieved.



#### ③ Camera Tripod

It is recommended to use a sturdy camera tripod free from easy flexure to make your Digiscoping successful. Reasonably lightweight and compact is the second consideration. Refer to page 23.



#### ① Spotting Scope

Aperture plays an important role in Digiscoping if you pursue brighter images. Vixen offers spotting scopes with 52mm, 67mm and 82mm of aperture. The larger the apertures, the brighter the images. The large 82mm aperture allows you to obtain higher magnification but sharp focus may be difficult to achieve. Spotting scopes with small 52mm aperture are easy to carry and you can take them to anywhere. ED glass models deliver flawless color fidelity. Choose a Digiscoping scope according to your style of observing.

#### Objective Lens

If you have photography in mind, it is recommended to choose a spotting scope with the ED objective glass for images of no false color.



**GEOMAI<sup>II</sup> ED52-S**  
Objective lens diameter : 52mm



**GEOMAI<sup>II</sup> ED67-S**  
Objective lens diameter : 67mm



**GEOMAI<sup>II</sup> ED82-S**  
Objective lens diameter : 82mm

## Optional Accessories

### ③ Balance Plate, Universal Slide Bar, High Illumination Red Dot Finder, Fine Adjustment Unit



1811

## Balance Plate

- With 1/4"-20 bolt
- Size : 15cm long
- Weight : 200g / 7.05 oz



2662

## Universal Slide Bar

- With threaded 1/4"-20 and 3/8 inch sockets on the bottom
- Supplied with 1/4" and 3/8 inch screws
- Size : 23.0cm x 4.4cm x 2.0cm
- Weight : 310g / 10.93 oz

26501

## High Illumination Red Dot Finder (Camouflage finish)

- Suitable for use in the daytime
- Different reticle patterns are available
- With a 1/4"-20 socket for a camera tripod
- CR2032 battery
- Size : 91mm x 36mm x 95mm (height)
- Weight : 165g / 5.82 oz



3562

## Fine Adjustment Unit DX

- Pan head with 1/4"-20 bolt and tangent screw slow motion controls
- Movable within +/- 10 degrees vertically and horizontally
- Weight : 340g / 12 oz



\*The specifications are subject to change without notice.

High Grade

Select

Compact

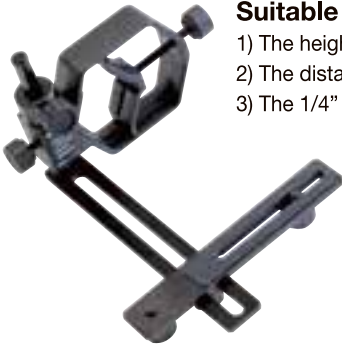
Spotting Scope

Magnifier



## Optional Accessories

### 4 Digital Camera Adapters



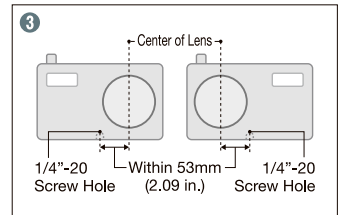
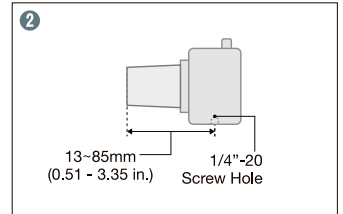
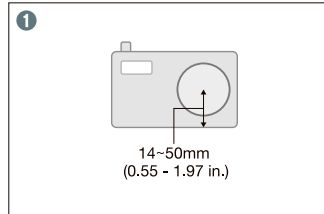
#### Suitable for digital cameras with the following specifications

- 1) The height from the camera's bottom to the center of the camera's lens is between 14mm and 50mm (0.55 in. and 1.97 in.)
- 2) The distance from the camera's tripod socket to the camera's lens tip is between 13mm and 85mm (0.51 in. and 3.35 in.)
- 3) The 1/4" tripod socket is equipped within the distance of 50mm (2.09 in.) from the centerline of the camera's lens

**39196**

#### Digital Camera Quick Bracket II

- Designed to pinch the barrel of visual back having 36mm to 61mm in diameter
- Equipped with a quick release knob to swing the attached camera aside
- Allows for a quick change between camera view and visual viewing
- Eyepieces with long eye relief are recommended to minimize vignetting of images
- Loading capacity 300g (10.5 oz)
- Weight : 240g / 8.46 oz



Attached with red dot finder



**NEW**

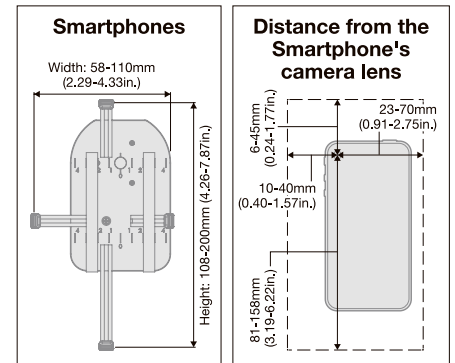
#### Suitable for smartphones with the following specifications

- 1) The size of smartphones is between 58mm and 110mm in width (minor axis length) and between 108mm and 200mm in height (major axis length). A thickness of less than 15mm.
- 2) The distance from the smartphone's camera lens to the left end of the smartphone is between 10mm and 40mm when you face the camera lens to the front.
- 3) The distance from the smartphone's camera lens to the right end of the smartphone is between 23mm and 70mm when you face the camera lens to the front.
- 4) The distance from the smartphone's camera lens to the upper end of the smartphone is between 6mm and 45mm when you face the camera lens to the front.
- 5) The distance from the smartphone's camera lens to the lower end of the smartphone is between 81mm and 158mm when you face the camera lens to the front.

**39199**

#### Smartphone Camera Adapter

- Designed to pinch the barrel of visual back or eyepiece having grip of 32mm to 53mm (between 1.26" and 2.08") in diameter. With supplementary pinch sleeves, having grip of 19mm to 43mm (between 0.75" and 1.69") in diameter.
- The eyepiece pinch posts hold an eyepiece simultaneously by turning the eyepiece clamp knob simply.
- The vertical and horizontal clamp arms with rubber claw hold a smartphone securely and they enable you to set the camera lens in line with the center of the eyepiece's field of view easily.
- Eyepieces with long eye relief are recommended to minimize vignetting of images.
- Loading capacity : 300 g / 10.5 oz
- Size : 149mm X 90mm X 56mm
- Weight : 178 g / 6.27 oz



#### Suitable for digital cameras with the following specifications

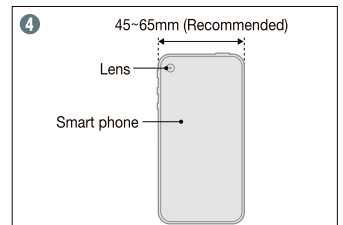
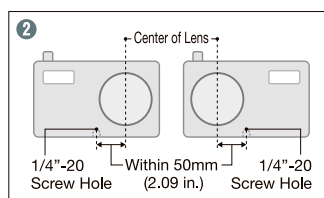
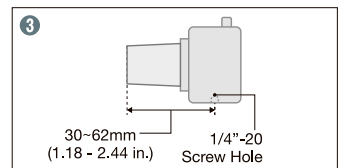
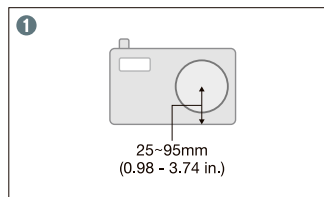
- 1) The height from the camera's bottom to the center of the camera's lens is between 25mm and 95mm (0.98 in. and 3.74 in.)
- 2) The distance from the camera's tripod socket to the camera's lens tip is between 30mm and 62mm (1.18 in. and 2.44 in.)
- 3) The 1/4" tripod socket is equipped within the distance of 50mm (2.09 in.) from the centerline of the camera's lens
- 4) Smart phones in width between 45mm and 65mm (1.88 in. and 2.71 in.) is available for the smart phone adapter

Smart phone adapter

**39197**

#### Universal Digital Camera Adapter

- Designed to pinch the barrel of visual back or eyepiece having 28mm to 45mm in diameter
- Equipped with vertical and horizontal slow motion screws
- Eyepieces with long eye relief are recommended to minimize vignetting of images
- Loading capacity 800g (28.2 oz)
- Weight : 370g / 13.05 oz



## 6 Eliminate vibration at shutter release

### Suitable for compact digital cameras with the following specifications

- 1) The position of the camera's shutter is not over 32mm (1.133 in.) distant from the side of the bracket
- 2) The camera's height is lower than 80mm (3.34 in.) from the bottom of the bracket
- 3) The 1/4" tripod socket is equipped within the distance of 100mm (4.18 in.) from the side of the bracket

### Size of a cable release head connectable

- 4) Longer than 12mm (0.5 in.)
- 5) Smaller than 7mm (0.29 in.) in diameter



**39184**

### Cable Release 30AS

Size : 21mm dia. x 300mm long  
Weight : 26 g / 0.91 oz

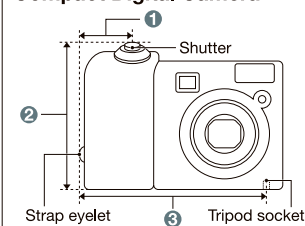


**39183**

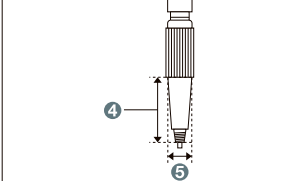
### Cable Release Bracket II

Size : 82mm  
(extendable to 114mm) x 134mm x 30mm  
Weight : 80 g / 2.82 oz

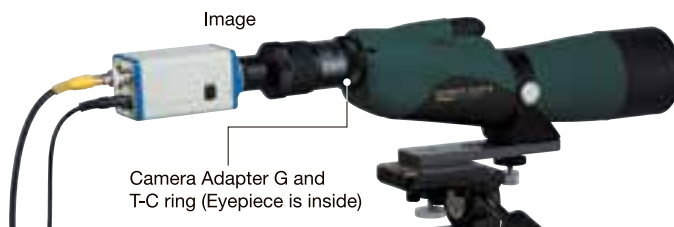
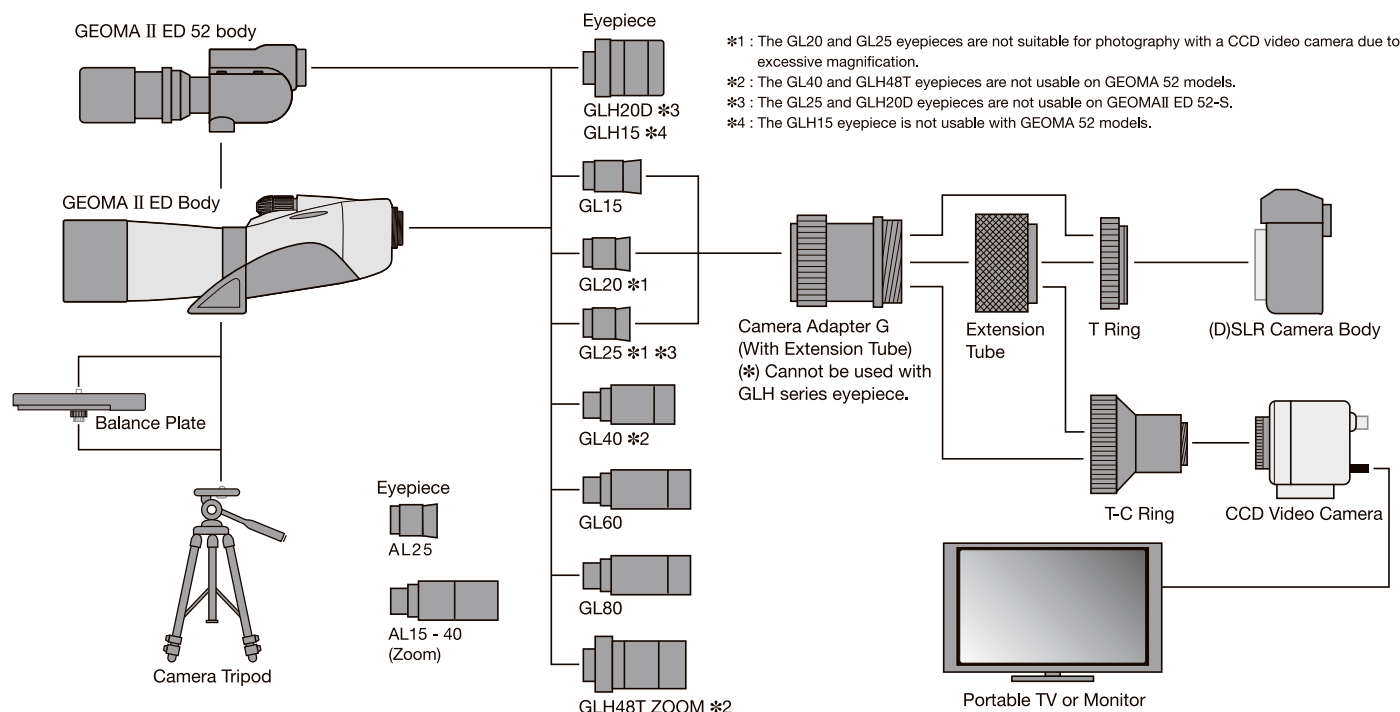
### Compact Digital Camera



### Cable Release



## Photographic Accessory Chart



Note: The spotting scope may lose its balance on the tripod after you connect a camera to the camera adapter G.  
It is recommended to use an optional balance plate if this is the case.



**1836**

### Camera Adapter G

- With extension ring attached
  - 5cm of tube length
- Weight : 40g / 1.4 oz

### T Ring

Use with "Camera Adapter G."  
Please see the table below about the information regarding the adaptation of your camera.

\*GL15, GL20, or GL25 eyepiece is required for photography.



T-ring for Nikon



T-ring for Canon












C Mount

### T-rings

Item No.	Find your Camera Brand	Weight
37301	Nikon, Fuji Film	22g / 0.78 oz
37303	Sony Alpha (Konica Minolta Alpha)	45g / 1.59 oz
37314	Sony E	113g / 3.98 oz
37304	Minolta (for manual focus)	30g / 1.06 oz
37305	Canon (for manual focus)	40g / 1.41 oz
37306	Canon EOS, EOS Rebel	52g / 1.83 oz
37302	FourThirds	58g / 2.04 oz
37313	Micro FourThirds	110g / 3.88 oz
3763	T-C Ring (for C mount)	52g / 1.83 oz
37307	Practica (Screw mount)	25g / 0.88 oz
37308	Vixen, Pentax K, Ricoh, Cosina	36g / 1.27 oz

\*The specifications are subject to change without notice.

# Eyepieces for Spotting Scopes

		Objective Aperture	Magnification	Coatings	Eye Relief	Angular Field of View	Apparent Field of View
	<b>1827 GL15</b>	52mm	11x	Fully Multi-coated	17mm	3.2°	35°
		67mm	15x			2.9°	44°
		82mm	19x			2.3°	44°
	<b>1828 GL20</b>	52mm	14x	Fully Multi-coated	19mm	3.7°	53°
		67mm	20x			2.6°	53°
		82mm	27x			1.9°	51°
	<b>1829 GL25 (Wide)</b> (*1)	52mm	18x	Fully Multi-coated	13mm	3.2°	58°
		67mm	25x			2.6°	65°
		82mm	33x			2.0°	66°
	<b>1830 GL40 (Wide)</b> *For Aperture 67 and 82mm only	67mm	40x	Fully Multi-coated	15mm	1.6°	65°
		82mm	53x			1.2°	64°
	<b>1831 GL60 (Wide)</b>	52mm	43x	Fully Multi-coated	15mm	1.5°	65°
		67mm	60x			1.1°	65°
		82mm	79x			0.9°	71°
	<b>1833 GL80</b>	52mm	58x	Fully Multi-coated	16mm	1.0°	58°
		67mm	80x			0.7°	56°
		82mm	105x			0.5°	53°
	<b>1859 GLH48T (Zoom)</b> *For Aperture 67 and 82mm only	67mm	16 to 48x	Multi-coated	19mm	2.5 to 1.2°	40 to 58°
		82mm	21 to 63x			1.8 to 0.8°	38 to 50°
	<b>1853 GLH15</b>	52mm	10.5x	Fully Multi-coated	25mm	4.4°	46°
		67mm	15x			3.3°	50°
		82mm	19x			2.4°	46°
	<b>19011 GLH20D (Wide)</b>	52mm	14x	Fully Multi-coated	18mm	3.3°	46°
		67mm	20x			3.6°	72°
		82mm	27x			2.6°	70.2°
	<b>1851 AL15~40 (Zoom)</b>	52mm	15 to 40x	Multi-coated	10 to 13mm	2.3 to 1.4°	35 to 56°
	<b>1850 AL25</b>	52mm	25x	Multi-coated	12mm	2.1°	52.5°

The table shows specifications and performance installed on GEOMA II ED spotting scopes. The specifications and performance are subject to the effective aperture of spotting scopes.

## PORTA Mount

These are useful optional accessories for those who want a rigid cradle or mount with slow motion controls for long observation or surveillance.



### 39951 PORTA II Alt-azimuth Mount

Simple friction system allows you to easily move and point the spotting scope to your target.

- With aluminum tripod legs



### 38011 PORTA Multi-Plate

It can hold a spotting scope or a large binocular.



### 3942 Camera Tripod Adapter for PORTA

Use this to attach the Porta head to a large camera tripod with 1/4" screw.

Field of view at 1000m	Exit Pupil	Brightness	Close Focus (Close Focus is extended by 8m with photography with a DSLR camera)	Dimensions: Length x Width	Weight	Telephoto Effect (With 35mm format SLR camera)	
						Camera Adapter G only	Camera Adapter G and Extension Ring
56m	4.7mm	22.1	4.2m	52×33mm	44g (1.55 oz)	—	792mm (F15.2)
51m	4.5mm	20.3	8m			—	1100mm (F16.4)
40m	4.3mm	18.5	15m			—	1500mm (F18.3)
65m	3.7mm	13.7	3.6m	42×33mm	50g (1.76 oz)	720mm (F13.8)	1080mm (F20.8)
45m	3.4mm	11.6	5m			1000mm (F14.9)	1500mm (F22.4)
33m	3.0mm	9.0	12m			1400mm (F17.1)	2000mm (F24.4)
56m	2.9mm	8.4	3.2m	43×33mm	54g (1.90 oz)	1008mm (F19.4)	1440mm (F27.7)
45m	2.7mm	7.3	5m			1400mm (F20.9)	2000mm (F29.9)
35m	2.5mm	6.3	13m			1900mm (F23.2)	2680mm (F32.7)
28m	1.7mm	2.9	7m	76×33mm	75g (2.64 oz)	Unphotographable	
21m	1.5mm	2.3	15m				
26m	1.2mm	1.4	4.2m	88×33mm	88g (3.10 oz)		
19m	1.1mm	1.2	6m				
16m	1.0mm	1.0	18m				
22m	0.9mm	0.81	4.2m	90×33mm	84g (2.96 oz)		
12m	0.8mm	0.6	8m				
9m	0.8mm	0.6	15m				
43 to 21m	4.2 to 1.4mm	17.6 to 2.0	5m	91×50mm	205g (7.23 oz)		
31.4 to 14m	3.9 to 1.3mm	15.2 to 1.7	17m				
77m	4.9mm	24.0	3.5m	45×46mm	115g (4.05 oz)	Photography with compact digital camera (Digiscopy) is possible	
58m	4.5mm	20.2	4m				
42m	4.3mm	18.5	9.2m				
58m	3.7mm	13.7	4m	64×46mm	160g (5.64 oz)		
54m	3.4mm	11.6	4.5m				
45m	3.0mm	9.0	10m				
40.1 to 24.4m	3.5 to 1.3mm	12.2 to 1.7	3m	71×33mm	74g (2.61 oz)	Unphotographable	
36.6m	2.1mm	4.4	3m	29×33mm	34g (1.19 oz)		

Vignetting may occur in the field of view if the GL series eyepieces are used in combination with GEOMA II ED 52-S.

\*1: The GL25 and GLH20D do not yield wide field of view over 60 degrees if combine with GEOMA II ED 52-S.

## Camera Tripods



**18122**  
**PS-151 Tripod**

- Extendable three-section legs
- Adjustable from 53cm to 151cm in height

Weight : 1200g / 42.33 oz



**18451**  
**M-169 Tripod**

- Extendable three-section legs
- Adjustable from 59cm to 169cm in height
- With water bubble

Weight : 2100g / 7.41 oz



**35516**  
**M-184V Tripod**

- Extendable four-section legs
- Adjustable from 56cm to 184cm in height
- With water bubble

Weight : 1.98kg / 69.84 oz  
(excl.ball-head)



**1814**  
**Car Window Mount**

- Used to attach to the car window as shown
- Weight : 560g / 19.7 oz

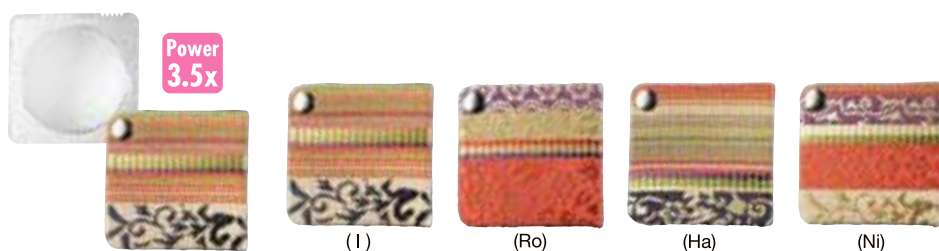
\*The specifications are subject to change without notice.



# Magnifiers

## FOLDING POCKET MAGNIFIERS

Compact and lightweight



**42925** I  
**42926** Ro

**42927** Ha  
**42928** Ni

### “Shikioriori” Josuikando-series magnifiers in storing case of traditional plant-dyed fabrics

- Lens : Dia. 44mm, made of glass
- Case : Silk and felt
- Weight : 37g / 1.31 oz
- Origin : Japan



**43182** Pomegranate  
**43185** Walnut  
**43186** Chestnut

**43187** Dayflower  
**43189** Mugwort  
**43190** Indigo

### “Shikioriori” Aya-series magnifiers in storing case of traditional plant-dyed fabrics

- Lens : Dia. 44mm, made of glass
- Case : Silk and felt
- Weight : 34g / 1.20 oz
- Origin : Japan



**42960** Rose red  
**42961** Apricot orange  
**42962** Cosmos pink  
**42963** Lavender purple  
**42964** Lemon yellow

**42965** Olive gray  
**42967** Iris blue  
**42968** Lime green  
**42969** Coconut beige

### Les Couleurs-series magnifiers

- Lens : Dia. 44mm, made of glass
- Case : Felt
- Weight : 34g / 1.20 oz
- Origin : Japan



**42931** Apple green  
**42932** Soda blue  
**42933** Moca brown

### Les Couleurs Feuille 62-series magnifiers

- Lens : Dia. 62mm, made of acrylic
- Case : Felt
- Weight : 30g / 1.06 oz
- Origin : Japan

**42934** Ice gray  
**42935** Navy blue  
**42936** Wine red

### Les Couleurs Feuille 75-series magnifiers

- Lens : Dia. 75mm, made of acrylic
- Case : Felt
- Weight : 48g / 1.69 oz
- Origin : Japan



### 4172 Folding pocket magnifier P23N

- Lens : Dia. 23mm, made of acrylic
- Case : Plastic
- 3-lens type
- Weight : 14g / 0.49 oz
- Origin : Japan



### 4631 Folding pocket magnifier GP50DX

- Lens : Dia. 50mm, made of glass
- Case : Genuine leather
- Weight : 62g / 2.19 oz
- Origin : Japan



### 4134 Folding pocket magnifier P44

- Lens : Dia. 44mm, made of glass
- Case : Artificial leather
- Weight : 34g / 1.20 oz
- Origin : Japan



Power  
3.5x

41361

Folding pocket  
magnifier  
**P45N**

- Lens : Dia. 45mm, made of glass
- Case : Vinyl
- Weight : 30g / 1.06 oz
- Origin : Japan

Power  
3.5x

4630

Folding pocket  
magnifier  
**P50**

- Lens : Dia. 50mm, made of glass
- Case : Artificial leather
- Weight : 45g / 1.59 oz
- Origin : Japan

Power  
2x

4133

Folding  
pocket  
magnifier  
**P63**

- Lens : 63x45mm, made of glass
- Case : Artificial leather
- Weight : 57g / 2.01 oz
- Origin : Japan

Power  
3.5x  
White  
LED

42994

**LED Pocket 35 (BK)**

- Lens : Dia. 35mm, made of acryl
- Illumination : White LED by turning lens over 90 deg.
- Power source : Two CR2016 batteries
- Weight : 38g / 1.34 oz without battery
- Origin : China

**HANDHELD MAGNIFIERS**

Reading magnifiers with grip

Power  
2xPower  
5x (small)White  
LED

42973

**LED Pocket 45**

- Lens : Dia. 35mm, 45x45mm, made of acryl
- Case : Artificial leather
- Illumination : White LED
- Power source : Two CR2016 batteries
- Weight : 35g / 1.24 oz without battery and case
- Origin : China

Power  
3xRed  
LED

7126

**LED Flash Magnifier  
RX25**

- Lens : Dia. 50mm, made of acryl
- Illumination : Red LED
- Power source : One CR2016 battery
- Weight : 45g / 1.59 oz without battery
- Origin : Japan

Power  
3x

Aspheric

42946

**Miracolo  
Loupe 60**

- Lens : Dia. 60mm, made of acryl
- Weight : 44g / 1.55 oz
- Origin : Japan

Power  
2.5x

Aspheric

42947

**Miracolo  
Loupe 70**

- Lens : Dia. 70mm, made of acryl
- Weight : 57g / 2.01 oz
- Origin : Japan

Power  
2x

Aspheric

42948

**Miracolo  
Loupe 80**

- Lens : Dia. 80mm, made of acryl
- Weight : 67g / 2.36 oz
- Origin : Japan

Power  
3x

Aspheric

42941

**Claire  
Loupe PB60**

- Lens : Dia. 60mm, made of acryl
- Weight : 44g / 1.55 oz
- Origin : Japan

Power  
2.5x

Multi-coated

Aspheric

Hard-coated

42942

**Claire  
Loupe PB70**

- Lens : Dia. 70mm, made of acryl
- Weight : 57g / 2.01 oz
- Origin : Japan

**HANDHELD MAGNIFIERS ILLUMINATED**

Reading magnifiers with grip and illumination

Power  
2x

Multi-coated

Aspheric

Hard-coated

42943

**Claire  
Loupe PB80**

- Lens : Dia. 80mm, made of acryl
- Weight : 67g / 2.36 oz
- Origin : Japan

Power  
3.5x

Aspheric

Hard-coated

42971

**Aspherical 90**

- Lens : Dia. 90mm, made of acryl
- Supplied with lens cover
- Weight : 140g / 4.94 oz
- Origin : Japan

Power  
3xWhite  
LED

Hard-coated

42954

**Luminor  
Loupe 65**

- Lens : Dia. 65mm, made of acryl
- Illumination : White LED
- Power source : One Size AAA battery
- Weight : 55g / 1.94 oz without battery
- Origin : Japan

Power  
2.5xWhite  
LED

Hard-coated

42955

**Luminor  
Loupe 75**

- Lens : Dia. 75mm, made of acryl
- Illumination : White LED
- Power source : One size AAA battery
- Weight : 78g / 2.75 oz without battery
- Origin : Japan

Power  
2xWhite  
LED

Hard-coated

42956

**Luminor  
Loupe 90**

- Lens : Dia. 90mm, made of acryl
- Illumination : White LED
- Power source : One size AAA battery
- Weight : 99g / 3.49 oz without battery
- Origin : Japan

Power  
2.5xWhite  
LED

42959

**Flash Magnifier  
F80 LED**

- Lens : Dia. 80mm, made of glass
- Illumination : White LED
- Power source : Two size C batteries
- Weight : 210g / 7.41 oz without battery
- Origin : Japan

Power  
5xWhite  
LED

42958

**Flash Magnifier  
F50 LED**

- Lens : Dia. 50mm, Doublet, made of glass
- Scale : 0.5mm (Total 25mm) x 1/32 inch (Total 1inch)
- Illumination : White LED
- Power source : Two size C batteries
- Weight : 160g / 5.64 oz without battery
- Origin : Japan



## DESK MAGNIFIERS

Power  
3x



4641

### Desk Magnifier SW65G

- Lens : Dia. 65mm, made of acryl
- Weight : 206g / 7.27 oz
- Origin : Japan

Power  
3x



4642

### Desk Magnifier SW65S

- Lens : Dia. 65mm, made of acryl
- Weight : 207g / 7.30 oz
- Origin : Japan

Power  
5x



4179

### Desk Magnifier SW50

- Lens : Dia. 50mm, made of glass
- With rubber knurling grip
- Weight : 71g / 2.50 oz
- Origin : Japan

Power  
3x



4180

### Desk Magnifier SW75

- Lens : Dia. 75mm, made of glass
- With rubber knurling grip
- Weight : 143g / 5.04 oz
- Origin : Japan



8926

### Fresnel Magnifier L

- Lens : 126x71mm, made of PVC
- Case : Vinyl
- Weight : 7g / 0.25 oz (18g / 0.63 oz with case)
- Origin : Japan

Power  
2x



4198

### Fresnel Magnifier S

- Lens : 42x77mm, made of PVC
- Case : Vinyl
- Weight : 2g / 0.07 oz (8g / 0.28 oz with case)
- Origin : Japan

Power  
3.5x



Power  
2x

4158

### Bar Loupe BA150

- Lens : 150x25mm, made of Acryl
- Case : Fabrics
- Weight : 44g / 1.55 oz (48g / 1.69 oz with case)
- Origin : Japan

## HAND-FREE MAGNIFIERS

Useful for long time use



Power  
2.3x

Power  
5x (small)

4160

### Hand-free Magnifier LL100

- Lens : Dia. 100mm, made of acryl
- Arm : 5 to 35mm extendable
- Weight : 137g / 4.83 oz
- Origin : Japan



42974

### Wide Fresnel Stand Magnifier

- Lens : 193x140mm, made of Acryl
- Weight : 360g / 12.7 oz
- Origin : Japan

Power  
1.8x



4621

### Stand Magnifier SR130PS

- Lens : Dia. 130mm, made of Acryl
- Arm : 25cm, flexible
- Weight : 680g / 23.99 oz
- Origin : Japan

Power  
2x

## FLEXIBLE MAGNIFIER

Convenient clip for attachment



Power  
2x

White  
LED

4227

### Stand Magnifier RX128ML

- Lens : Dia. 128mm, made of glass
- Illumination : White LED
- Power source : AC Adapter (100V source)
- Arm : 28cm, flexible
- Weight : 1,700g / 59.97 oz without AC Adapter
- Origin : Japan



Power  
2x

Power  
4x (small)

Hard-  
coated

42993

### Flexible Magnifier RH100

- Lens : Dia. 100mm, made of acryl
- Arm : 24cm, flexible
- Weight : 196g / 6.91 oz
- Origin : Japan

## EYEGlass MAGNIFIERS



42996

### Eyeglass Magnifier 1.6X

- Lens : 45x45mm, made of acryl
- Working distance : About 22 to 35cm
- Case : Fabrics
- Weight : 37g / 1.31 oz
- Origin : Japan

Power  
1.6x

Hard-  
coated



42997

### Eyeglass Magnifier 2X

- Lens : 45x45mm, made of acryl
- Working distance : About 12 to 17cm
- Case : Fabrics
- Weight : 37g / 1.31 oz
- Origin : Japan

Power  
2x

Hard-  
coated

## BINOCULAR HEAD-WORN MAGNIFIERS

For comfortable hand-free precision work



4446

### Binocular Head-worn Magnifier with LED

- Lens : 37x28mm, interchangeable, made of acryl
- Operating head range : 52 to 61cm
- Working distance :  
About 10 to 20cm (1.5x),  
7 to 13cm (2.5x), 5 to 7cm (3.5x)
- Illumination : White LED
- Power source : Two CR1220 batteries
- Weight : 50g / 1.76 oz without battery
- Origin : Japan

Power 1.5x  
Power 2.5x  
Power 3.5x  
White LED



4445

### Binocular Head-worn Magnifier

- Lens : 37x28mm, interchangeable, made of acryl
- Operating head range : 52 to 61cm
- Working distance :  
About 10 to 20cm (1.5x),  
7 to 13cm (2.5x), 5 to 7cm (3.5x)
- Weight : 35g / 1.24 oz
- Origin : Japan

Power 1.5x  
Power 2.5x  
Power 3.5x

## METAL HOLDER MAGNIFIERS

For high power application



Power ① 3x  
Power ② 4x  
Power ③ 5x  
Power ①+② 6.5x  
Power ①+③ 9x  
Power ②+③ 11x  
Power ①+②+③ 15x

### 4109 Metal Holder MT19

- Lens : Dia. 19mm, 3-lens type, made of glass
- Case : Metal
- Weight : 38g / 1.34 oz
- Origin : Japan



### 4305 Metal Holder M12N

- Lens : Dia. 12mm, Doublet, made of glass
- Case : Metal
- Weight : 22g / 0.78 oz
- Origin : Japan

Power 10x



### 4144 Metal Holder M13

- Lens : Dia. 12mm, 7mm, 2-lens type, made of glass
- Case : Metal
- Weight : 35g / 1.24 oz
- Origin : Japan

Power 10x  
Power 20x



### 4306 Metal Holder M14N

- Lens : Dia. 14mm, Triplet, made of glass
- Case : Metal
- Weight : 28g / 0.99 oz
- Origin : Japan

Power 20x  
Achromatic Triplet



### 4307 Metal Holder M16N

- Lens : Dia. 16mm, Doublet, made of glass
- Case : Metal
- Weight : 34g / 1.20 oz
- Origin : Japan

Power 10x



### 4308 Metal Holder M17N

- Lens : Dia. 17mm, Triplet, made of glass
- Case : Metal
- Weight : 36g / 1.27 oz
- Origin : Japan

Power 10x  
Achromatic Triplet



### 4309 Metal Holder M20S

- Lens : Dia. 20mm, Doublet, made of glass
- Case : Metal
- Weight : 39g / 1.38 oz
- Origin : Japan

Power 10x

## PROFESSIONAL MAGNIFIERS



### 4161 Linen Tester T20

- Lens : Dia. 20mm, made of glass
- Inner scale (one side) : 3/4 inch, 19.1mm
- Scale unit : 1/8 inch, 1mm
- Weight : 24g / 0.85 oz
- Origin : Japan

Power 7x



### 4162 Linen Tester T28

- Lens : Dia. 28mm, made of glass
- Inner scale (one side) : 1 inch, 25.4mm
- Scale unit : 1/8 inch, 1mm
- Weight : 42g / 1.48 oz
- Origin : Japan

Power 6x



### 4164 Linen Tester TW25

- Lens : Dia. 25mm, Doublet, made of glass
- Bottom size : 1 inch, 25.4mm
- Scale unit : 1/8 inch, 1mm
- Weight : 64g / 2.26 oz
- Origin : Japan

Power 6x



### 4168 Desk Magnifier HA10

- Lens : Dia. 26mm, Doublet, made of glass
- Case : Vinyl, hard
- With rubber knurling grip
- Weight : 68g / 2.40 oz
- Origin : Japan

Power 10x  
Achromatic



### 4169 Desk Magnifier HA15

- Lens : Dia. 20mm, Doublet, made of glass
- Case : Vinyl, hard
- With rubber knurling grip
- Weight : 49g / 1.73 oz
- Origin : Japan

Power 15x  
Achromatic



### 4170 Desk Magnifier HA30

- Lens : Dia. 7.5mm, Doublet, made of glass
- Case : Vinyl, hard
- With rubber knurling grip
- Weight : 46g / 1.62 oz
- Origin : Japan

Power 30x  
Achromatic



### 4151 Eye Loupe E22

- Lens : Dia. 22mm, made of glass
- Weight : 8g / 0.28 oz
- Origin : Japan

Power 5x

\*The specifications are subject to change without notice.

High Grade

Select

Compact

Spotting Scope

Magnifier





Wild Birds of Japan Photo : Yoshida



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