





# In a moment, the breadth and beauty of nature is real, inviting you into its world...

The sea, mountains, fields, forests and blue sky... see the full grandeur of nature through our outstanding line of binoculars.

### RECOMMENDED NEW ITEMS



For more information, please refer to page 8



8X21 DH SG 10X25 DH SG





For more information, please refer to page 15

As one of the world's largest makers of binoculars, Kenko has the experience and refined manufacturing techniques to produce high-quality, multi-coated and phase-coated glass optics that yield bright, crisp clear viewing under a wide-variety of conditions. You may not know the name, but the Kenko company is an original manufacturer with decades of experience in the precise production of sports optics.

### THE PRODUCTION PROCESS OF KENKO BINOCULARS











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### BINOCULAR SELECTION GUIDE



Kenko superior opilical perioritistics, and these premium roof prism birding binoculars. The ultimate choice for birding enthusiasts. Superior optical performance, durability and shock resistance defines

FULLY MULTI-COATED LENSES / ECO-GLASS

## **Kenko** OP 8x42DH Mark II 010945 OP 10x42DH Mark II 010952

- Ergonomically contoured, open-hinge design
- Fully multi-coated lenses for maximum light transmission and brightness
- Phase coated roof prisms also have a super-high reflective silver coating for high contrast, bright images
- Fully waterproof (JIS Class 6)
- A high-eyepoint design provides longer eye relief with or without eyeglasses
- Easy to use, twist up eyecups
- Pull out diopter adjustment
- Rugged and light, aluminum die-cast body
- Impact resistant, easy to grip rubber exterior
   Large focus ring for precise, easy adjustments
- Environmentally friendly, lead and arsenic free glass (eco-glass)





**Fully Waterproof** Nitrogen filled and waterproof ( JIS Class 6 ) ensures no fogging in even the worst weather



Diopter Ring Lock Employing a pull out lock mechanism, any diopter ring adjustments will securely stay in



Open Hinge A stylish, open hinge design gives a superb feel and makes eye width adjustments quick and easy.



Rubber Exterior Made from exceptionally durable aluminum diecast, the rubber exterior creates a body that is shock resistant while providing a secure, non-slip grip.



Fully multi-coated lenses Fully multi-coated lenses for maximum light transmission and brightness.

|                    |            |               |           |            |                      |            | 50                            | ocure, non or |
|--------------------|------------|---------------|-----------|------------|----------------------|------------|-------------------------------|---------------|
| Model              | Brightness | Field of View | FOV@1000m | Eye Relief | Close Focus Distance | Exit Pupil | Dimensions (HxDxW) mm/in.     | Weight        |
| OP 8x42H Mark II   | 27.6       | 7.5°          | 131m      | 18mm       | 2.5m/8.2ft.          | 5.25mm     | 167x58x145mm/6.57x2.28x5.7in. | 900g/31.74oz. |
| OP 10x42DH Mark II | 17.6       | 6.0°          | 105m      | 15mm       | 2.5m/8.2ft.          | 4.2mm      | 167x58x145mm/6.57x2.28x5.7in. | 900g/31.74oz. |









## Kenko 8x42DH MS 010969 10x42DH MS 010976

- Unbelievably compact, 42mm diameter body
- Lightweight and highly durable magnesium housing
- Fully multi-coated lenses for maximum light transmission and brightness
- Phase coated roof prisms also have a super-high reflective silver coating for high contrast, bright images
- Fully waterproof
- A high-eyepoint design provides longer eye relief with or without eyeglasses
- Easy to use, twist up eyecups
- Impact resistant, easy to grip rubber exterior
- Large focus ring for precise, easy adjustments
- Environmentally friendly, lead and arsenic free glass (eco-glass)

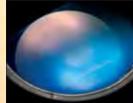


**Rubber Exterior** 

The rubber exterior creates a body that is shock resistant while providing a secure, non-slip grip.



Fully multi-coated lenses Fully multi-coated lenses for maximum light transmission and Environmentally fri arsenic free glass brightness



**Eco Glass** Environmentally friendly, lead and



| Model      | Brightness | Field of View | FOV@1000m | Eye Relief | Close Focus Distance | Exit Pupil | Dimensions (HxDxW) mm/in.            | Weight        |
|------------|------------|---------------|-----------|------------|----------------------|------------|--------------------------------------|---------------|
| 8x42DH MS  | 27.5       | 7.3°          | 127.6m    | 20mm       | 2.5m/8.2ft.          | 5.25mm     | 133.5x55.5x125.5mm/5.25x2.18x4.94in. | 700g/24.69oz. |
| 10x42DH MS | 17.6       | 6.3°          | 110.1m    | 15.3mm     | 2.5m/8.2ft           | 4.2mm      | 133.5x55.5x125.5mm/5.25x2.18x4.94in. | 700g/24.69oz. |











## Kenko 8x32DH MS 010983 10x32DH MS 010990

- Unbelievably compact, 32mm diameter body
- Lightweight, highly durable magnesium housing
- Fully multi-coated lenses for maximum light transmission and brightness
- Phase coated roof prisms also have a super-high reflective silver coating for high contrast, bright images
- Fully waterproof
- A high-eyepoint design provides longer eye relief with or without eyeglasses
- Easy to use, twist up eyecups
- Impact resistant, easy to grip rubber exterior
- Large focus ring for precise, easy adjustments
- Environmentally friendly, lead and arsenic free glass (eco-glass)



Rubber Exterior

The rubber exterior creates a body that is shock resistant while providing a secure, non-slip grip.



Fully multi-coated lenses Fully multi-coated lenses for maximum light transmission and brightness.









| Model      | Brightness | Field of View | FOV@1000m | Eye Relief | Close Focus Distance | Exit Pupil | Dimensions (HxDxW) mm/in.        | Weight        |
|------------|------------|---------------|-----------|------------|----------------------|------------|----------------------------------|---------------|
| 8x32DH MS  | 16.0       | 7.5°          | 131.1m    | 15.3mm     | 2.5m/8.2ft.          | 4.0mm      | 116x52.7x129mm/4.56x2.07x5.07in. | 560g/19.75oz. |
| 10x32DH MS | 10.2       | 6.5°          | 113.5m    | 15.3mm     | 2.5m/8.2ft.          | 3.2mm      | 116x52.7x129mm/4.56x2.07x5.07in. | 590g/20.81oz. |



## Kenko 8x25DH 102060 10x25DH 102077

- Fully multi-coated lenses for maximum light transmission and brightness
- Phase coated roof prisms also have a super-high reflective coating for high contrast, bright images
- Fully waterproof
- A high-eyepoint design provides longer eye relief with or without eyeglasses
- Easy to use, twist up eyecups
- Click-stop diopter adjustment ring
- Rugged and light, aluminum die-cast body
- Impact resistant, easy to grip rubber exterior
- Large focus ring for precise, easy adjustments
- Environmentally friendly, lead and arsenic free glass (eco-glass)



**Rubber Exterior** 

Made from exceptionally durable aluminum diecast, the rubber exterior creates a body that is shock resistant while providing a secure, non-slip grip.



Fully multi-coated lenses Fully multi-coated lenses for maximum light transmission and brightness.







| Model |    | Brightness | Field of View | FOV@1000m | Eye Relief | Close Focus Distance | Exit Pupil | Dimensions (HxDxW) mm/in.      | Weight        |
|-------|----|------------|---------------|-----------|------------|----------------------|------------|--------------------------------|---------------|
| 8x25D | H  | 9.6        | 5.2°          | 91m       | 18mm       | 2m/6.56ft.           | 3.1mm      | 110x37x106mm/4.33x1.45x4.17in. | 390g/13.75oz. |
| 10x25 | DH | 6.25       | 5.0°          | 87.3m     | 17mm       | 2m/6.56ft.           | 2.5mm      | 110x37x108mm/4.33x1.45x4.25in. | 390g/13.75oz. |



This high caliber binocular is marked by stunning optical performance and uncompromising durability. Perfect for bird watching, surveillance or general observation, these binoculars are professional grade.

### FULLY MULTI-COATED LENSES / LARGE FOCUS RING



**OP 8x32 DH II** 002889 OP 10x32W DH II 002896

**ULTRA LIGHTWEIGHT BIRDING BINOCULARS** At just 455g / 16.04 oz.! The world's lightest\* pair of 8x32 binoculars available!

\*as of 01/01/12 ( According to Kenko research)

- Highly durable polycarbonate light weight body
- Fully multi-coated lenses for maximum light transmission and brightness
- Fully waterproof
- Easy to use, twist up eyecups
- Impact resistant, easy to grip rubber exterior
- Large focus ring for precise, easy adjustments



**Open Hinge** A stylish, open hinge design gives a superb feel and makes eye width adjustments



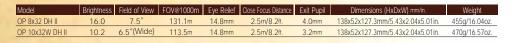
Polycarbonate Body Extremely durable and lightweight, the glass fiber reinforced, polycarbonate body is wrapped in a highly

impact resistant rubber exterior



Fully multi-coated lenses Fully multi-coated lenses for maximum light transmission and brightness.















**OP 8x42 DH ED** 002704 OP 10x42 DH ED 002711

Using ED glass with an objective lens significantly reduces chromatic aberration creating good contrast and sharp images.

- Close focus distance only 2m/6.56ft.
- BaK4 roof prism
- Fully waterproof
- A high-eyepoint design provides longer eye relief with or without eyeglasses
- Easy to use, twist up eyecups
- Fully multi-coated lenses for maximum light transmission and brightness
- Large focus ring for precise, easy adjustments



Use of ED lens
A lens using ED glass helps correct chromatic aberration, providing an unmatched clarity and sharpness



Open hinge The stylish open hinge design is created to fit securely in hand, enabling easy eye width and focus adjustment.



Fully multi-coated lenses Fully multi-coated lenses for maximum light transmission and brightness









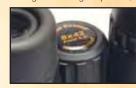






### **OP 8x42 DH II** 002728 OP 10x42 DH II 002735

- Fully multi-coated lenses for maximum light transmission and brightness
- BaK4 roof prism
- Fully waterproof
- A high-eyepoint design provides longer eye relief with or without eyeglasses
- Easy to use, twist up eyecups
- Large focus ring for precise, easy adjustments



Large Focus Ring Large focus ring for precise, easy adjustments

Dimensions (HxDxW) mm/in.

156x52x126mm/6.14x2.04x4.96in. 151x52x122mm/5.94x2.04x4.80in

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| Model          | Brightness | Field of View | FOV@1000m | Eye Relief | Close Focus Distance | Exit Pu |
|----------------|------------|---------------|-----------|------------|----------------------|---------|
| OP 8X42 DH II  | 27.6       | 6.5°          | 114m      | 18.8mm     | 4.5m/14.76ft.        | 5.15m   |
| OP 10X42 DH II | 17.6       | 5.4°          | 94m       | 15.2mm     | 4.5m/14.76ft.        | 4.15m   |



### 10x50 DH 002742 12x50 DH 002759

- Fully multi-coated lenses for maximum light transmission and brightness
- Phase coated roof prisms also have a super-high reflective silver coating for high contrast, bright images
- Fully waterproof
- A high-eyepoint design provides longer eye relief with or without eyeglasses
- Easy to use, twist up eyecups

- Center diopter adjustment
  Glass fiber reinforced polycarbonate resin body
  Impact resistant, easy to grip rubber exterior
  Large focus ring for precise, easy adjustments
  Environmentally friendly, lead and arsenic free glass (eco-glass)



### **Center Diopter**

With the diopter located on the center column, fine adjustments can be made easily and with precision.



| Model   | Brightness | Field of View | FOV@1000m | Eye Relief       | Close Focus Distance | Exit Pupil | Dimensions (HxDxW) mm/in.      | Weight        |
|---------|------------|---------------|-----------|------------------|----------------------|------------|--------------------------------|---------------|
| 10X50DH | 25.0       | 5.8°          | 101m      | 19 <sub>mm</sub> | 3.8m/12.46ft.        | 5.0mm      | 169x63x141mm/6.65x2.48x5.55in. | 830g/29.27oz. |
| 12X50DH | 17.6       | 5.0°          | 87.3m     | 15.5mm           | 3.8m/12.46ft.        | 4.2mm      | 164x63x141mm/6.45x2.48x5.55in. | 810g/28.57oz. |





### 8x42 DH 002766 10x42 DH 002773

- Fully multi-coated lenses for maximum light transmission and brightness
- Phase coated roof prisms also have a super-high reflective coating for high contrast, bright images
- Fully waterproof
- A high-eyepoint design provides longer eye relief with or without eyeglasses
- Easy to use, twist up eyecups
   Center diopter adjustment

- Glass fiber reinforced polycarbonate resin body
  Impact resistant, easy to grip rubber exterior
  Large focus ring for precise, easy adjustments
  Environmentally friendly, lead and arsenic free glass (eco-glass)



### **Center Diopter**

With the diopter located on the center column, fine adjustments can be made easily and with precision.









| Model    | Brightness | Field of View | FOV@1000m | Eye Relief | Close Focus Distance | Exit Pupil | Dimensions (HxDxW) mm/in.     | Weight        |
|----------|------------|---------------|-----------|------------|----------------------|------------|-------------------------------|---------------|
| 8x42 DH  | 27.6       | 7.5°          | 131m      | 19mm       | 2.5m/8.2ft.          | 5.25mm     | 131x51x148mm/5.15x2.0x5.82in. | 660g/23.28oz. |
| 10x42 DH | 17.6       | 6.0°          | 105m      | 14mm       | 2.5m/8.2ft.          | 4.2mm      | 131x51x144mm/5.15x2.0x5.66in. | 650g/22.92oz. |
|          |            |               |           |            |                      |            |                               |               |

M-MODEL MARINE

Designed to withstand the most severe weather conditions, our marine lineup is known for meeting the highest standards of engineering and unparalleled sophistication in optics.



### M-M()DEL 7x50WP 131916



- Magenta coatingBaK4 porro prismsFully waterproof
- Rugged and light, aluminum die-cast body

- Radged and light, administrible-cast body
   A high-eyepoint design provides longer eye relief with or without eyeglasses
   Environmentally friendly, lead and arsenic free glass (eco-glass)
   Impact resistant, easy to grip rubber exterior
   This model can be mounted onto a "Tripod Mounting Holder" (Sold separately. Please refer to page 23.)



| Model  | Brightness | Field of View | FOV@1000m | Eye Relief | Close Focus Distance | Exit Pupil | Dimensions (HxDxW) mm/in.     | Weight        | <b>ECO</b> GLASS | MAGENTA | WATER |
|--------|------------|---------------|-----------|------------|----------------------|------------|-------------------------------|---------------|------------------|---------|-------|
| 7x50WP | 50.4       | 7.0°          | 122m      | 18mm       | 6m/19.68ft.          | 7.1mm      | 180x70x183mm/7.08x2.75x7.2in. | 870g/30.68oz. | GLASS            | COAT    | PROOF |

## M-MODEL 7x50M IF 011928 MARINE

- Multi-coating
- BaK4 porro prisms
- Fully waterproof
- A high-eyepoint design provides longer eye relief with or without eyeglasses
- Easy to use, twist up eyecupsIF (Individual Focus) style mechanism
- Environmentally friendly, lead and arsenic free glass (eco-glass)



| Model    | Brightness | Field of View | FOV@1000m | Eye Relief | Close Focus Distance | Exit Pupil | Dimensions (HxDxW) mm/in.      | Weight          |
|----------|------------|---------------|-----------|------------|----------------------|------------|--------------------------------|-----------------|
| 7x50M IF | 50.4       | 7.2°          | 125.8m    | 24.9mm     | 10m/32.8ft.          | 7.1mm      | 142x76x200mm/5.59x2.99x7.87in. | 1,080g/38.09oz. |









Our new series has a GPS (Global Positioning System) receiver with a 12 channel, high sensitivity GPS antenna.





### M-M())EL GPS 750 002018 7x50 GPS BINOCULAR

The external LCD monitor pinpoints the exact latitude and longitude of the user's location. Up to 5 locations (latitude / longitude) can be stored in memory. Because of the waterproof design, these binoculars are ideal for mountain stream fishing, marine sports, mountain climbing or other similar activities.

- BaK4 porro prisms
- Multi-coating
- IF (Individual Focus) style mechanism
- Fully waterproof
- A high-eyepoint design provides longer eye relief with or without eyeglasses
- Easy to use, twist up eyecups
- Integrated digital compass with LED lighting







LCD monitor

Displays the current date, time, latitude and longitude. The display mode is easily switched by a button.

Digital Compass

Built-in digital compass binoculars The current location can be determined using the latitude and longitude functionality.





| Model   | Brightness | Field of View | FOV@1000m | Eye Relief | Close Focus Distance | Exit Pupil | Dimensions (HxDxW) mm/in.          | Weight         |
|---------|------------|---------------|-----------|------------|----------------------|------------|------------------------------------|----------------|
| GPS 750 | 50.4       | 7.2°          | 125.8m    | 23mm       | 10m/32.8ft.          | 7.1mm      | 117.5x88.5x197mm/4.62x3.48x7.75in. | 1,100g/38.8oz. |
|         |            |               |           |            |                      |            |                                    |                |

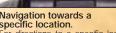


#### **GPS 718** 002025 7x18 IF GPS BINOCULAR

Small, lightweight binoculars equipped with a powerful GPS tracking system. The display shows the current date, time, latitude and longitude. This model also features pedometer and stopwatch functions.

- Multi-coatingIF (Individual Focus) style mechanism
- Easy to grip plastic exterier
   Backlit color LCD monitor
- Power source: Built-in lithium-ion rechargeable battery





Navigation towards a specific location.

For directions to a specific location, an arrow is displayed pointing the way. The distance to reach your destination is also displayed.



#### **Pedometer Feature**

When the GPS signal is out of reach, the number of steps will be counted. When the pedometer feature is in use, the power must be kept on.

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| Model   | Brightness | Field of View | FOV@1000m | Eye Relief | Close Focus Distance | Exit Pupil | Dimensions (HxDxW) mm/in.     | Weight       |
|---------|------------|---------------|-----------|------------|----------------------|------------|-------------------------------|--------------|
| GPS 718 | 6.76       | 9.3°          | 163m      | 10.5mm     | 5m/16.4ft.           | 2.6mm      | 85x43x113mm/3.34x1.69x4.44in. | 178a/6.27oz. |



Our New SG line of binoculars feature a fully waterproof, streamlined, black body combined with our signature high powered optics.





- Multi-coating
- Compact, biaxial roof prisms
- Impact resistant, easy to grip rubber exterior
- Easy to use, twist up eyecups
- Fully waterproof



Fully waterproof

88x47x106mm/3.64x1.85x4.17in.



| NEW. | SG |
|------|----|

### New8x32DH II SGWP 001806 New10x32DH II SGWP 011812

13mm 3m/9.84ft. 3.5mm

- Objective lens caps are securely fastened to the body of the binocular so they can never be lost.
- Multi-coating
- Large focus ring for precise, easy adjustments
- Fully waterproof
- A high-eye point design provides longer eye relief with or without eyeglasses

131m

- Easy to use, twist up eyecups
- Impact resistant, easy to grip rubber exterior

| Model           | Brightness | Field of View | FOV@1000m | Eye Relief | Close Focus Distance | Exit Pupil | Dimensions (HxDxW) mm/in.      | Weight        |
|-----------------|------------|---------------|-----------|------------|----------------------|------------|--------------------------------|---------------|
| 8x32DH II SGWP  | 16.0       | 7.4°          | 129m      | 17.5mm     | 2m/6.56ft.           | 4.0mm      | 128x47x121mm/5.03x1.85x4.76in. | 560g/19.75oz. |
| 10x32DH II SGWP | 10.2       | 5.8°          | 101m      | 14mm       | 2m/6.56ft.           | 3.2mm      | 128x47x121mm/5.03x1.85x4.76in. | 560g/19.75oz. |







## New 8x25 DH SGWP 020425 New 10x25 DH SGWP 020432

- Multi-coating
- Easy to use, twist up eyecups
- Fully waterproof
- Impact resistant, easy to grip rubber exterior
- BaK4 roof prisms

| Model             | Brightness | Field of View | FOV@1000m | Eye Relief | Close Focus Distance | Exit Pupil | Dimensions (HxDxW) mm/in. | Weight |
|-------------------|------------|---------------|-----------|------------|----------------------|------------|---------------------------|--------|
| New 8x25 DH SGWP  | 9.6        | 6.6°          | 115.3m    | 14mm       | 3m/9.84ft.           | 3.1mm      | TO BE DETERMINED          | TBD    |
| New 10x25 DH SGWP | 6.25       | 5.4°          | 94.3m     | 14mm       | 3m/9.84ft.           | 2.5mm      | TO BE DETERMINED          | TBD    |
|                   |            |               |           |            |                      |            |                           |        |











## NEW New 8x25 SGWP 011744 New 10x25 SGWP 011751

- Multi-coating
- BaK4 porro prisms
- Impact resistant, easy to grip rubber exterior
- Fully waterproof
- A high-eye point design provides longer eye relief with or without eyeglasses
- · Easy to use, twist up eyecups
- Click-stop diopter ring
- Environmentally friendly, lead and arsenic free glass (eco-glass)



**ECO GLASS** 

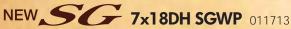
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|----------------|------------|---------------|-----------|------------|----------------------|------------|--------------------------------|---------------|
| Model          | Brightness | Field of View | FOV@1000m | Eye Relief | Close Focus Distance | Exit Pupil | Dimensions (HxDxW) mm/in.      | Weight        |
| NEW 8x25 SGWP  | 9.8        | 6.7°          | 117m      | 15mm       | 2.3m/7.54ft.         | 3.1mm      | 119x109x50mm/4.68x4.29x1.96in. | 350g/12.34oz. |
| NEW 10x25 SGWP | 6.3        | 5.6°          | 98m       | 15mm       | 2.3m/7.54ft.         | 2.5mm      | 119x109x50mm/4.68x4.29x1.96in. | 350g/12.34oz. |











- Free Focus (FF) design eliminates the need to focus
- Compact, biaxial roof prisms
- Fully waterproof
- Impact resistant, easy to grip rubber exterior

| Model       | Brightness | Field of View | FOV@1000m | Eye Relief | Close Focus Distance | Exit Pupil | Dimensions (HxDxW) mm/in.     | Weight      |
|-------------|------------|---------------|-----------|------------|----------------------|------------|-------------------------------|-------------|
| 7x18DH SGWP | 6.76       | 9.3°          | 163m      | 10.5mm     | 5m/13.12ft.          | 2.6mm      | 83x31x110mm/3.26x1.22x4.33in. | 142g/5.0oz. |







Sophisticated styling, fully waterproof and rugged, this series of premium binoculars are perfect for outdoor sporting events, or ideal for general use.

## • Trtos SERIES MAIN FEATURES







Twist up eyecups and high-eyepoint design



Click-stop diopter adjustment ring



Eco Glass





7x50 031124

- Multi-coating
- BaK4 porro prisms
- Fully waterproof
- Greater than 6.5° apparent field of view (excluding the 7x50 model)
- A high-eyepoint design provides longer eye relief with or without eyeglasses
- Easy to use, twist up eyecups
- Click-stop diopter adjustment ring
- Large focus ring for precise, easy adjustments
   Rugged and light, aluminum die-cast body
- Impact resistant, easy to grip rubber exterior
- This model can be mounted onto a "Tripod Mounting Holder" (Sold separately. Please refer to page 23.)
   Environmentally friendly, lead and arsenic free glass (eco-glass)







| Model  | Brightness | Field of View | FOV@1000m | Eye Relief | Close Focus Distance | Exit Pupil | Dimensions (HxDxW) mm/in.      | Weight        |
|--------|------------|---------------|-----------|------------|----------------------|------------|--------------------------------|---------------|
| 7x50   | 50.4       | 6.5°          | 113.6m    | 18.1mm     | 10m /32.8ft.         | 7.1mm      | 165x77x185mm/6.49x3.03x7.28in. | 880g/31.04oz. |
| 10x50W | 25.0       | 6.6°(Wide)    | 115.3m    | 15.5mm     | 8.2m /26.9ft.        | 5.0mm      | 165x77x185mm/6.49x3.03x7.28in. | 880g/31.04oz. |
| 12x50W | 17.6       | 5.5°(Wide)    | 96.1m     | 15.8mm     | 7.5m /24.6ft.        | 4.2mm      | 165x77x185mm/6.49x3.03x7.28in. | 880g/31.04oz. |





8x42W 031094

- Multi-coating
- BaK4 porro prisms
- Fully waterproof
- Greater than 6.5° apparent field of view
- A high-eyepoint design provides longer eye relief with or without eyeglasses
   Easy to use, twist up eyecups

- Click-stop diopter adjustment ring
  Large focus ring for precise, easy adjustments
  Rugged and light, aluminum die-cast body

- Impact resistant, easy to grip rubber exterior
   This model can be mounted onto a "Tripod Mounting Holder" (Sold separately. Please refer to page 23.)
- Environmentally friendly, lead and arsenic free glass (eco-glass)







| Model  | Brightness | Field of View | FOV@1000m | Eye Relief | Close Focus Distance | Exit Pupil | Dimensions (HxDxW) mm/in.        | Weight        |
|--------|------------|---------------|-----------|------------|----------------------|------------|----------------------------------|---------------|
| 8x42W  | 27.6       | 8.2°(Wide)    | 143.4m    | 17mm       | 5.5m /18.04ft.       | 5.3mm      | 138.5x73x176mm/5.45x2.87x6.92in. | 770g/27.16oz. |
| 10x42W | 17.6       | 6.6°(Wide)    | 115.3m    | 16mm       | 5.5m /18.04ft.       | 4.2mm      | 138.5x73x176mm/5.45x2.87x6.92in. | 770g/27.16oz. |
| 12x42W | 12.3       | 5.5°(Wide)    | 96.1m     | 16.5mm     | 5.5m /18.04ft.       | 3.5mm      | 138.5x73x176mm/5.45x2.87x6.92in. | 770a/27.16oz. |

### MULTI-PURPOSE BINOCULARS





**6x30** 020395 **8x30** 020401 **10x30** 020418

- Multi-coating
- Fully Waterproof
- A high-eyepoint design provides longer eye relief with or without eyeglasses
- Large focus ring for precise, easy adjustments

| Model | Brightness | Field of View | FOV@1000m | Eye Relief | Close Focus Distance | Exit Pupil | Dimensions (HxDxW) mm/in. | Weight |
|-------|------------|---------------|-----------|------------|----------------------|------------|---------------------------|--------|
| 6x30  | 25.0       | 8.3°          | 145.1m    | 19mm       | 3m/9.84ft.           | 5.0mm      | TO BE DETERMINED          | TBD    |
| 8x30  | 14.1       | 7.0°          | 122.3m    | 17mm       | 3m/9.84ft.           | 3.75mm     | TO BE DETERMINED          | TBD    |
| 10x30 | 9.0        | 5.5°          | 96.1m     | 18mm       | 3m/9.84ft.           | 3mm        | TO BE DETERMINED          | TBD    |





8-20x50 002810

- Magenta coating
- One touch lever zoom
- Large focus ring for precise, easy adjustments
- This model can be mounted onto a "Tripod Mounting Holder" (Sold separately. Please refer to page 23.)
- Environmentally friendly, lead and arsenic free glass (eco-glass)

| Model   | Brightness | Field of View | FOV@1000m  | Eye Relief | Close Focus Distance | Exit Pupil | Dimensions (HxDxW) mm/in.      | Weight        |
|---------|------------|---------------|------------|------------|----------------------|------------|--------------------------------|---------------|
| 8-20x50 | 39-6.2     | 4.5°-2.9°     | 78.6-50.6m | 20-15mm    | 10m/32.8ft.          | 6.2-2.5mm  | 185x77x180mm/7.28x3.03x7.08in. | 900g/31.74oz. |





7-15x35 002803

- Magenta coating
- Impact resistant, easy to grip rubber exterior
- This model can be mounted onto a "Tripod Mounting Holder" (Sold separately. Please refer to page 23.)
- Environmentally friendly, lead and arsenic free glass (eco-glass)

| Model   | Brightness | Field of View | FOV@1000m  | Eye Relief | Close Focus Distance | Exit Pupil | Dimensions (HxDxW) mm/in.      | Weight        |
|---------|------------|---------------|------------|------------|----------------------|------------|--------------------------------|---------------|
| 7-15x35 | 25-5.4     | 5.6°-3.7°     | 97.8-64.6m | 20-16mm    | 10m/32.8ft.          | 5.0-2.3mm  | 130x77x168mm/5.11x3.03x6.61in. | 700g/24.69oz. |







Multi-coating

8x21 DH (Pink) 020333

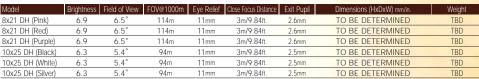
















- Multi-coating
  - BaK4 porro prisms
- Compact, biaxial PORRO prisms • Environmentally friendly, lead and arsenic free glass (eco-glass)

8x21 (Pink) 020265





10x21 (Black) 020296

10x21 (White) 020302

10x21 (Silver) 020319















| Model          | Brightness | Field of View | FOV@1000m | Eye Relief | Close Focus Distance | Exit Pupil | Dimensions (HxDxW) mm/in.     | Weight       |
|----------------|------------|---------------|-----------|------------|----------------------|------------|-------------------------------|--------------|
| 8x21 (Pink)    | 6.9        | 7.0°          | 122mm     | 11mm       | 6m/19.68ft.          | 2.6mm      | 82x45x102mm/3.22x1.77x4.01in. | 190g/6.70oz. |
| 8x21 (Red)     | 6.9        | 7.0°          | 122mm     | 11mm       | 6m/19.68ft.          | 2.6mm      | 82x45x102mm/3.22x1.77x4.01in. | 190g/6.70oz. |
| 8x21 (Purple)  | 6.9        | 7.0°          | 122mm     | 11mm       | 6m/19.68ft.          | 2.6mm      | 82x45x102mm/3.22x1.77x4.01in. | 190g/6.70oz. |
| 10x21 (Black)  | 4.4        | 6.0°          | 105mm     | 11mm       | 7m/22.96ft.          | 2.1mm      | 82x45x102mm/3.22x1.77x4.01in. | 192g/6.77oz. |
| 10x21 (White)  | 4.4        | 6.0°          | 105mm     | 11mm       | 7m/22.96ft.          | 2.1mm      | 82x45x102mm/3.22x1.77x4.01in. | 192g/6.77oz. |
| 10x21 (Silver) | 4.4        | 6.0°          | 105mm     | 11mm       | 7m/22.96ft.          | 2.1mm      | 82x45x102mm/3.22x1.77x4.01in. | 192g/6.77oz. |
|                |            |               |           |            |                      |            |                               |              |



### TRAVEL & EVENTS BINOCULARS





**8X21 DH SG** 020227/Blister 020241

- Compact, biaxial roof prisms
- Magenta coating







**10X25 DH SG** 020234/Blister 020258

- Compact, biaxial roof prisms
- Magenta coating





| Model       | Brightness | Field of View | FOV@1000m | Eye Relief | Close Focus Distance | Exit Pupil | Dimensions (HxDxW) mm/in.      | Weight       |
|-------------|------------|---------------|-----------|------------|----------------------|------------|--------------------------------|--------------|
| 8x21 DH SG  | 6.89       | 7.1°          | 124m      | 11mm       | 5m/16.4ft.           | 2.6mm      | 105x35x98mm/4.13x1.37x3.85in.  | 210g/7.4oz.  |
| 10x25 DH SG | 6.25       | 5.6°          | 98m       | 11mm       | 5m/16.4ft.           | 2.5mm      | 105x40x115mm/4.13x1.57x4.52in. | 235a/8.28oz. |





6x16 SG111673 8x18 SG 111680

The world's lightest\* Flat and slim designed roof prism binoculars at 120g / 4 oz. ! Theater, concerts, sporting events - the uses are many for these compact, optical gems.

\*as of 01/01/12 ( According to Kenko research)

- Multi-coating
- Aspherical lens for ultra low distortion

| Flat and convenient, pocket type portability |            |               |           |            |                      |            |                               |              |  |  |  |
|--|------------|---------------|-----------|------------|----------------------|------------|-------------------------------|--------------|--|--|--|
| Model  | Brightness | Field of View | FOV@1000m | Eye Relief | Close Focus Distance | Exit Pupil | Dimensions (HxDxW) mm/in.     | Weight       |  |  |  |
| 6x16 SG                                      | 6.2        | 9.1°          | 114x159m  | 11.4mm     | 1m/3.28ft.           | 1.8x2.7mm  | 73x22x106mm/2.87x0.86x4.17in. | 118g/4.16oz. |  |  |  |
| 8x18 SG                                      | 3.9        | 7.0°          | 86x122m   | 11.4mm     | 2m/6.56ft.           | 1.4x2.3mm  | 73x22x106mm/2.87x0.86x4.17in. | 118g/4.16oz. |  |  |  |



# CERES | CERES New Mirage

Suitable for entry level nature watching





### 8x42 031728

- Suitable for entry level nature watching
- Magenta coating with stable optical construction
- It can be attached Tripod Adapter holder
- Compact / Lightweight body
- Large focus ring

| Model      | Brightness | Field of View | FOV@1000m | Close Focus Distance | Dimensions (HxDxW) mm/in.      | Weight        |
|------------|------------|---------------|-----------|----------------------|--------------------------------|---------------|
| CERES 8x42 | 27.6       | 6.8°          | 112m      | 5.5m/18.04ft.        | 140x57x190mm/5.51x2.24x7.48in. | 650g/22.92oz. |





## CERES New Mirage

7x50 031681 10x50 W 031698

- Suitable for entry level nature watching
- Magenta coating with stable optical construction
   It can be attached Tripod Adapter holder
- Large focus ring

| Model        | Brightness | Field of View | FOV@1000m | Close Focus Distance | Dimensions (HxDxW) mm/in.      | Weight        |
|--------------|------------|---------------|-----------|----------------------|--------------------------------|---------------|
| CERES 7x50   | 50.4       | 6.8°          | 118.8m    | 8m/26.24ft.          | 167x65x198mm/6.57x2.55x7.79in. | 790g/27.86oz. |
| CERES 10x50W | 25         | 6.5° (Wide)   | 114m      | 6m/19.68ft.          | 167x65x198mm/6.57x2.55x7.79in. | 790g/27.86oz. |



8x21 CF 10x21 CF

## CERES

8x21 CF 011829 10x21 CF 011836

- Porro prisms
- Compact / Lightweight body

| Model         | Brightness | Field of View | FOV@1000m | Close Focus Distance | Dimensions (HxDxW) mm/in.     | Weight       |
|---------------|------------|---------------|-----------|----------------------|-------------------------------|--------------|
| CERES 8x21CF  | 6.76       | 7.0°          | 122m      | 6m/19.68ft.          | 80x40x113mm/3.14x1.57x4.44in. | 140g/4.93oz. |
| CERES 10x21CF | 4.41       | 6.5°          | 114m      | 6m/19.68ft.          | 80x40x113mm/3.14x1.57x4.44in. | 140q/4.93oz. |









Porro prisms

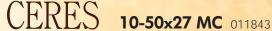
Compact / Lightweight body

| Model           | Brightness | Field of View | FOV@1000m | Close Focus Distance | Dimensions (HxDxW) mm/in.     | Weight       |
|-----------------|------------|---------------|-----------|----------------------|-------------------------------|--------------|
| CERES 7-21x21MC | 9-1        | 4.3°-2.3°     | 75-40m    | 3.5m/11.48ft.        | 92x48x108mm/3.62x1.88x4.25in. | 265g/9.34oz. |









- Multi-coating
- Porro prisms
- Compact / Lightweight body
   This model can be mounted on a "Tripod Mounting Holder" (Sold separately. Please refer to page 23.)

| Model            | Brightness | Field of View | FOV@1000m | Close Focus Distance | Dimensions (HxDxW) mm/in.     | Weight        |
|------------------|------------|---------------|-----------|----------------------|-------------------------------|---------------|
| CERES 10-50x27MC | 7.29-0.29  | 3.3°-1.2°     | 58-21m    | 5m/16.4ft.           | 112x43x110mm/4.4x1.69x4.33in. | 300g/10.58oz. |





ERES 18-100×28 MC 011867

7-21x21 MC 116906

- 18-100x Zoom
- Multi-coating
- Porro prisms
- Compact / Lightweight body
- This model can be mounted onto a "Tripod Mounting Holder" (Sold separately. Please refer to page 23.)

| Model             | Brightness | Field of View | FOV@1000m  | Close Focus Distance | Dimensions (HxDxW) mm/in.     | Weight        |
|-------------------|------------|---------------|------------|----------------------|-------------------------------|---------------|
| CERES 18-100x28MC | 2.42-0.08  | 1.5°-0.5°     | 26.2-8.75m | 6m/19.68ft.          | 121x57x112mm/4.76x2.24x4.4in. | 340g/11.99oz. |

# Kenko

### **Real scope 8x32** 001028

- Wide 32mm objective lens have fully multi-coated and superb brightness
- Brightness 16 and eye relief 17mm provides easy to use even in low light
- Fully multi-coated lenses





### **Real Scope 8x20** 100943

• Fully multi-coated lenses





Twin focus loupe

• Esutorama used to grip the resin is lighter than rubber







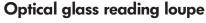




| Model / Jan#            | <b>PKC-025</b> 400180 | <b>PKC-024</b> 400173 | <b>PKC-023</b> 400166 | PKC-022 400159    | <b>PKC-021</b> 400142 |
|-------------------------|-----------------------|-----------------------|-----------------------|-------------------|-----------------------|
| Magnification/Spot lens | 2x / 3.5x             | 2x / 3.5x             | 2x / 3.5x             | 3x / 4.5x         | 3x / 4.5x             |
| Lens size               | Ø100mm                | Ø 90mm                | Ø 75mm                | Ø 60mm            | Ø 50mm                |
| Weight (approx.)        | 148g/5.22oz.          | 93g/3.28oz.           | 59g/2.08oz.           | 37g/1.3oz.        | 20g/0.7oz.            |
| Dimensions (HXDXW)mm    | 250.5x22x123mm        | 220.5x20x100mm        | 185.5x16.5x87.5mm     | 151x13.5x75mm     | 125x12.5x60mm         |
| Dimensions (HXDXW)in.   | 9.86x0.86x4.84in.     | 8.68x0.78x3.93in.     | 7.30x0.64x3.44in.     | 5.94x0.53x2.95in. | 4.92x0.49x2.36in.     |

### **LED Twin focus loupe**

- Lens material: Acrylic
  Light: 2 LED lights
  Battery: AAA x2 (Sold separately)
- Continuous lighting time: 270 hours (Estimate: In use of alkaline battery)



• Lens material: Optical glass





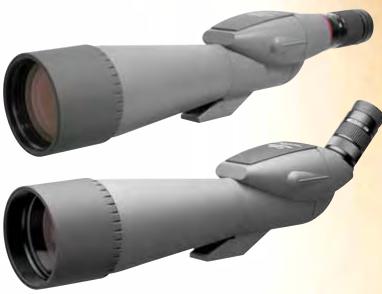








| Model / Jan#            | PKC-013 400098   | PKC-012 400081    | PKC-011 400074    | PKC-002 400203    | <b>PKC-001</b> 400197 |
|-------------------------|------------------|-------------------|-------------------|-------------------|-----------------------|
| Magnification/Spot lens | 2x / 3.5x        | 2x / 3.5x         | 3x / 4.5x         | 2x                | 2.5x                  |
| Lens size               | Ø 90mm           | Ø 75mm            | Ø 50mm            | Ø 90mm            | Ø 50mm                |
| Weight (approx.)        | 74g/2.61oz.*     | 52g/1.83oz.*      | 30g/1.05oz.*      | 147g/5.18oz.      | 30g/1.05oz.           |
| Dimensions (HXDXW)mm    | 224.5x20.5x90mm  | 216.5x20x79mm     | 190x20x53mm       | 220.5x20x100mm    | 125x12.5x60mm         |
| Dimensions (HXDXW)in.   | 8.83x0.8x3.54in. | 8.52x0.78x3.11in. | 7.48x0.78x2.08in. | 8.68x0.78x3.93in. | 4.92x0.49x2.36in.     |
|                         |                  | *Without battery  |                   |                   |                       |



## PRO FIELD

PF 80 S (Straight type) 110379 PF 80 A (Angle type) 110362

- Highly durable die-cast aluminum body
  Full Multi-coating
  Pull out lens hood

- Water proof body
   Comes with NEW 20-60X eyepiece
   Eyepiece is interchangeable.
   86mm Filter thread

- Soft case included





| Model   | Brightness | Field of View | FOV@1000m  | Eye Relief | Close Focus Distance | Exit Pupil | Length        | Weight         |
|---------|------------|---------------|------------|------------|----------------------|------------|---------------|----------------|
| PF 80 S | 16-1.7     | 1.8-1.1°      | 31.4-19.2m | 13.4-13mm  | 6m/19.68ft.          | 4.0-1.3mm  | approx. 439mm | 1275g/44.97oz. |
| PF 80 A | 16-1.7     | 1.8-1.1°      | 31.4-19.2m | 13.4-13mm  | 6m/19.68ft.          | 4.0-1.3mm  | approx. 420mm | 1280g/45.14oz. |



## PRO FIELD

PF 63 S DX II (Straight type) 111444 PF 63 A DX II (Angle type) 111451

- Highly durable die-cast aluminum body
   Full Multi-coating
   Pull out lens hood

- Water proof body
  Comes with NEW 20-60X eyepiece
- Eyepiece is interchangeable.72mm Filter thread
- Soft case included



| Model         | Brightness | Field of View | FOV@1000m  | Eye Relief | Close Focus Distance | Exit Pupil  | Length        | Weight        |
|---------------|------------|---------------|------------|------------|----------------------|-------------|---------------|---------------|
| PF 63 S DX II | 9.9-1.1    | 1.7-1.1°      | 29.7-19.2m | 12-20mm    | 10m/32.8ft.          | 3.15-1.05mm | approx. 366mm | 927g/32.68oz. |
| PF 63 A DX II | 9.9-1.1    | 1.7-1.1°      | 29.7-19.2m | 12-20mm    | 10m/32.8ft.          | 3.15-1.05mm | approx. 343mm | 942g/33.22oz. |



## **Bird Land**

Bird Land 50 014127

- Magenta coatingWater proof body
- Comes with NEW 18-36X eyepiece
- Environmentally friendly, lead and arsenic free glass (eco-glass)
- 58mm Filter thread
- Soft case included





| Model            | Brightness | Field of View | FOV@1000m  | Eye Relief | Close Focus Distance | Exit Pupil | Length | Weight        |
|------------------|------------|---------------|------------|------------|----------------------|------------|--------|---------------|
| New Bird Land 50 | 7.8-1.96   | 2-1.4°(Wide)  | 34.9-24.4m | 27-20mm    | 5m/16.4ft.           | 2.8-1.4mm  | 265mm  | 610g/21.51oz. |

# SKYMEMORS





### Now available...

The Kenko Single-axis tracking mount -- a compact, portable, easy-to-use, precision tracking mount, perfect for the beginner starting out in astrophotography with wide angle lenses.

New RS model is now capable of 4 different tracking speeds - sidereal, solar, lunar and landscape (0.5x).

Of special note is the factory-aligned, highly accurate polar axis finder. The polar axis scope is actually aligned twice--once when the scope is assembled, and again when it is installed in the mount.

As an integral part of the mount, it retains its accuracy and provides a quick, and reliable method of aligning the Kenko mount.

Experienced observers will also find it useful as a second mount for travel or as an additional platform for cameras or a lightweight scope.

While you observe or photograph with your primary system, the Kenko mount can be used to capture wide angle panoramas, patrol for meteors, or for testing new telescopes, filters, and camera lenses.

- Northern & Southern hemisphere operation
- Solid, high-quality construction using a precision worm gear yields excellent tracking performance
- 5 kg. (11 lb) load capacity
- 6 Volt battery (4 C-cells) operation
- Illuminated, magnifying polar alignment scope
- RA tracking control paddle
- Accommodates two cameras in the standard configuration
- Optional counterweight
- May be mounted on a camera tripod or on an optional compact tripod

| Model      | Jan#   | Weight | Length       |
|------------|--------|--------|--------------|
| SKYMEMO RS | 455265 | TBD    | 240x90x130mm |

### **SKYMEMO** SKYMEMO TRIPOD II WH



- Very solid alt-azimuth head and slow motion controls allow for the accurate polar alignment and tracking
- Ultra compact legs convenient for overseas expeditions

| Model                | Jan#   | Weight                | Hight     |
|----------------------|--------|-----------------------|-----------|
| SKYMEMO TRIPOD II WH | 149249 | approx. 4kg/141.09oz. | 550-850mm |

## **SKYMEMO**SKYMEMO BALANCE WEIGHT



| Model                           | Jan#   | Weight          |
|---------------------------------|--------|-----------------|
| SKYMEMO BALANCE WEIGHT 1.5kg WH | 492178 | 1.5kg/52.91oz.  |
| SKYMEMO BALANCE WEIGHT 2.2kg WH | 492185 | 2.2kg/77.60oz.  |
| SKYMEMO BALANCE WEIGHT 3.3kg WH | 492192 | 3.3kg/116.40oz. |

## **SKYMEMO** WEIGHT SHAFT



| Model                | Jan#   |
|----------------------|--------|
| SKYMEMO WEIGHT SHAFT | 492161 |



# STAR WATCHING SUPER WIDE ANGLE BINOCULAR



## Kenko

7x32 SWA 131909

Actual field of view:13.1° / Apparent field of view:91°

- Magenta coating
- Center-focus
- Super wide angle
- This model can be mounted on a "Tripod Mounting Holder" (Sold separately. Please refer to page 23.)

| Model          | Brightness | Field of View | FOV@1000m | Eye Relief | Close Focus Distance | Exit Pupil | Dimensions (HxDxW) mm/in.      | Weight        |
|----------------|------------|---------------|-----------|------------|----------------------|------------|--------------------------------|---------------|
| KENKO 7x32 SWA | 20.8       | 13.1°         | 245m      | 8mm        | 3m/9.84ft.           | 4.57mm     | 113x65x115mm/4.44x2.55x4.52in. | 710g/25.04oz. |



7x50WP 131916

For more information, please refer to page 10



7x50WP





Self Defense Forces of Japar Official Model

| ef | Close Focus Distance | Exit Pupil | Dimensions (HxDxW) mm/in.     | Weight        |
|----|----------------------|------------|-------------------------------|---------------|
|    | 6m/19.68ft.          | 7.1mm      | 180x70x183mm/7.08x2.75x7.2in. | 870g/30.68oz. |



### M-MODEL MARINE

7x50M IF 011928

For more information, please refer to page 10







| Model    | Brightness | Field of View | FOV@1000m | Eye Relief | Close Focus Distance | Exit Pupil | Dimensions (HxDxW) mm/in.     | Weight         |
|----------|------------|---------------|-----------|------------|----------------------|------------|-------------------------------|----------------|
| 7x50M IF | 50.4       | 7 2°          | 125.8m    | 24 9mm     | 10m/32 8ft           | 7 1mm      | 142x76x200mm/5 59x2 99x7 87in | 1 080a/38 09oz |





10x50 DH 002742

For more information, please refer to page 9











| Model   | Brightness | Field of View | FOV@1000m | Eye Relief | Close Focus Distance | Exit Pupil | Dimensions (HxDxW) mm/in.      | Weight        |
|---------|------------|---------------|-----------|------------|----------------------|------------|--------------------------------|---------------|
| 10X50DH | 25         | 5.8°          | 19mm      | 15-10mm    | 3.8m/12.46ft.        | 5.0mm      | 169x63x141mm/6.65x2.48x5.55in. | 830g/29.27oz. |





**7x50W** 031124

For more information, please refer to page 13







| S | MULTI<br>COAT | WATE<br>PROC |
|---|---------------|--------------|
|   |               |              |

| Model  | Brightness | Field of View | FOV@1000m | Eye Relief | Close Focus Distance | Exit Pupil | Dimensions (HxDxW) mm/in.      | Weight        |
|--------|------------|---------------|-----------|------------|----------------------|------------|--------------------------------|---------------|
| 7x50   | 50.4       | 6.5°          | 113.6m    | 18.1mm     | 10m /32.8ft.         | 7.1mm      | 165x77x185mm/6.49x3.03x7.28in. | 880g/31.04oz. |
| 10x50W | 25         | 6.6°(Wide*)   | 115.3m    | 15.5mm     | 8.2m /26.9ft.        | 5.0mm      | 165x77x185mm/6.49x3.03x7.28in. | 880g/31.04oz. |

## Kenko

### Lens2scope

The new KENKO LENS2SCOPE adapter is an accessory that can change any lens into a spotting scope. The LENS2SCOPE adapter's light-weight composite body houses a high quality roof prism, optics and an eyepiece just like a traditional spotting scope. When the lens is attached it becomes a spotting scope to use for viewing. The lens mount and housing for the optics are made from metal while some external barrels are polycarbonate.

The optics in the LENS2SCOPE magnify the image by a factor of 10x so that a 100mm lens would have the same magnification as a 1,000mm lens when viewing. Focus is easily achieved by using the lens' manual focus ring.

There are two versions of the LENS2SCOPE, a straight eyepiece (pictured) and a version where the eyepiece is angled up. They are both available in Canon EOS, Nikon, Pentax and Sony.

The LENS2SCOPE has a removable tripod adapter for mounting onto a tripod for more comfortable viewing for extended periods of time.

The tripod mount can support up to 800g. If you want to use a lens heavier than 800g, please use a tripod mount on the lens.

This small accessory comes with its own carrying case and takes up about as much room in a camera bag as a normal lens.

• Forcal length: 10mm Lens construction: 5E / 3G Roof prism Prism system: Apparent field of view: 42 degrees

• Maximum exi pupil: 2.5mm • Eye relief:

20mm with foldable eyecup for glass wear observation • Spotting scope magnification ratio: 1/10X the focal length of the lens mounted Loupe magnification ratio: 25X when the lens mounted has 1:1 macro capability.

Focus adjustment: By camera lens

• Dioptry change: -5D to +3D by camera lens focus compensation • Dimensions: Straight: LxWxH 180x80x90mm (7.08x3.14x3.54in.) Dimensions: Angle: LxWxH 180x80x110mm (7.08x3.14x4.33in.)

Weight: Approx. 185g (6.52oz.)

| Model                    | Jan#   | Туре     | Color |
|--------------------------|--------|----------|-------|
| Lens2scope Canon EF/EF-S | 901243 | Straight | Black |
| Lens2scope Canon EF/EF-S | 901250 | Straight | White |
| Lens2scope Canon EF/EF-S | 901267 | Angle    | Black |
| Lens2scope Canon EF/EF-S | 901274 | Angle    | White |
| Lens2scope Nikon F       | 901281 | Straight | Black |
| Lens2scope Nikon F       | 901298 | Angle    | Black |
| Lens2scope Sony Alpha    | 901304 | Straight | Black |
| Lens2scope Sony Alpha    | 901311 | Angle    | Black |
| Lens2scope Pentax K      | 901328 | Straight | Black |
| Lens2scope Pentax K      | 901335 | Angle    | Black |







### New KDS Mount II 121658





The Kenko New KDS Mount II is a lightweight, but solidly constructed head suitable for attachment to a photographic tripod. The Kenko head allows attachment and precise pointing of small telescopes and cameras.

- 1/4-20 standard photo thread for attachment to tripod
- Accepts the industrial standard telescope dovetail plate
- Smooth slow motion control knobs
- Weight: 1.2 kg

| Model            | Jan#   | Height mm/in. | Weight         |
|------------------|--------|---------------|----------------|
| New KDS Mount II | 121658 | 180mm/7.86in. | 1200g/42.32oz. |

### **TRIPOD ADAPTER HOLDER** 440032

For long periods of steady, hands-free observation, the use of a tripod is essential. This tripod adapter holder attaches quickly and securely to your binoculars which can then be fastened to any standard tripod.

For use with the following models: M-MODEL 7x50WP

Artos 7x50 / 10x50W / 12x50W / 8x42W / 10x42W / 12x42W UltraVIEW 7-15x35 / 8-20x50

among others, also fits most standard type binoculars.



| Model                 | Jan#   | Height       | Width                      | Weight      |
|-----------------------|--------|--------------|----------------------------|-------------|
| TRIPOD ADAPTER HOLDER | 440032 | 93mm/3.66in. | 20mm/0.78in. without screw | 35g/1.23oz. |

### Car Window Mount KM-4000CM 808030



- Spotting scope, D-SLR can be attached while car window around half opening
- 2 way head with quick release shoe
- Maximum load weight 1.5kg

| Model                      | Jan#   | Dimensions(HXDXW)mm/in.       | Weight      |
|----------------------------|--------|-------------------------------|-------------|
| Car Window Mount KM-4000CM | 808030 | 125x70x90mm/4.92x2.75x3.54in. | 550g/19 4gz |

### Camera Adapter PF 461419





Using eye piece at the same time, it can be connected Spotting scope and D-SLR. D-SLR should be attached T-Mount (except certain D-SLR)



| Model             | Jan#   |
|-------------------|--------|
| Camera Adapter PF | 461419 |

### Photo Fixer 130316



It can be connected Spotting scope and D-SLR. D-SLR should be attached T-Mount. (except certain D-SLR)

| Model       | Jan#   |
|-------------|--------|
| Photo Fixer | 130316 |

### NEW EYEPIECE 25 461655 NEW EYEPIECE 20-60 461662

- Full Multi-coating provides high contrast images
- Easy to use by long eye relief



| Model              | Magnification | Field of View | FOV@1000m  | Eye Relief |
|--------------------|---------------|---------------|------------|------------|
| NEW EYEPIECE 25    | 25            | 2.1°          | 36.7m      | 31mm       |
| NEW EYEPIECE 20-60 | 20-60         | 1.7-1.1°      | 29.7-19.2m | 12-20mm    |

### T-MOUNT ADAPTER



Pitch: 0.75

| Model                            | Jan#   |
|----------------------------------|--------|
| T-MOUNT ADAPTER EOS              | 499597 |
| T-MOUNT ADAPTER ALFA             | 499603 |
| T-MOUNT ADAPTER N.A.             | 499535 |
| T-MOUNT ADAPTER OLYMPUS OM       | 499559 |
| T-MOUNT ADAPTER 4/3rds           | 499504 |
| T-MOUNT ADAPTER MICRO 4/3rds NEW | 499481 |
| T-MOUNT ADAPTER KONIKA           | 499566 |
| T-MOUNT ADAPTER APK              | 499511 |
| T-MOUNT ADAPTER SONY NEX         | 499726 |

## Kenko

Mirror Lens 400mm F8





Black





White

Titanium

The Kenko mirror 400mm F8 super tele lens is extremely compact and lightweight. Useful for those who prefer shooting active scenes and have some sub super telephoto lens along with primer lenses. When shooting birds, animals or flora, the Kenko mirror 400mm is ideal.

- Extremely compact super tele lens.
- Full format camera focal distance is 400mm. For APS-C size it is 600mm and for "micro 3/4", the focal distance becomes 800mm.
- A compact optical design combines silver deposition mirrors and pure optical lenses.
- As Kenko mirror 400mm F8 super tele lens has manual focus adjusting system, it is possible be combined with all existing camera mount systems.
- Kenko mirror 400mm F8 super tele lens is designed in 3 color variations; Black to fit Nikon F, Canon EF, Pentax K and Sony Alpha, Titanium color to fit Sony E and White color to fit "micro 3/4" camera mounts.

|                            | Specifications         |
|----------------------------|------------------------|
| Focal distance:            | 400mm                  |
| Aperture:                  | F8 (Fixed)             |
| Lens construction:         | 6 elements in 2 groups |
| Picture angle:             | 6 degrees 8 minutes    |
| Lens length:               | 82mm                   |
| Max. diameter:             | 74mm                   |
| Weight:                    | 340g                   |
| Filter size:               | 67mm                   |
| Closest focusing distance: | 1.15m                  |
| Max. macro magnification:  | 1:2.5                  |
| Focus system:              | Full manual            |
| No. of diaphragm blades:   | non                    |
| Hood:                      | KF-M400HOOD-BK *       |
| Mount:                     | T-mount **             |
| Color:                     | Black, White, Titanium |
|                            |                        |

<sup>\*</sup>Hood does not go in set with Kenko mirror 400mm F8 super tele lens.

## **76x76 PRO ND100000** 390443 **100x100 PRO ND100000** 390450



### 67mm PRO ND100000

367919





Caution: This filter is designed for solar imaging only and to be set in front of telescopes or lenses.

| Model                | Jan#   | Weight | Filter size |
|----------------------|--------|--------|-------------|
| 76x76 PRO ND100000   | 390443 | 31g    | 76x76x2mm   |
| 100x100 PRO ND100000 | 390450 | 54g    | 100x100x2mm |
| 67mm PRO ND100000    | 367919 |        | 67mm        |

### TECHNICAL HOLDER II (S) 392027 TECHNICAL HOLDER II (L) 392010

27 10 ness

Applicable to set filters or materials up to 2mm thickness

| Model                   | Jan#   | Size      | Filter size       |
|-------------------------|--------|-----------|-------------------|
| TECHNICAL HOLDER II (S) | 392027 | 100x83mm  | 76mm/3in. Square  |
| TECHNICAL HOLDER II (L) | 392010 | 123x106mm | 100mm/4in. Square |

### ND400 PROFESSIONAL





Caution:This filter is designed for solar imaging only and must be used with other ND filters for the proper solar energy.

| Model                   | Jan#   | Filter size |
|-------------------------|--------|-------------|
| 49mm ND400 PROFESSIONAL | 149232 | 49mm        |
| 52mm ND400 PROFESSIONAL | 152232 | 52mm        |
| 55mm ND400 PROFESSIONAL | 155233 | 55mm        |
| 58mm ND400 PROFESSIONAL | 158234 | 58mm        |
| 62mm ND400 PROFESSIONAL | 162231 | 62mm        |
| 67mm ND400 PROFESSIONAL | 167236 | 67mm        |
| 72mm ND400 PROFESSIONAL | 172230 | 72mm        |
| 77mm ND400 PROFESSIONAL | 177235 | 77mm        |
| 82mm ND400 PROFESSIONAL | 182239 | 82mm        |

### **SOLAR ECLIPSE GLASSES**

Using film by BAADER PLANETARIUM GMBH, Germany









KSG-05 403280

KSG-06 403297

| Model  | Jan#   | Weight | Size (HxDxW)              |
|--------|--------|--------|---------------------------|
| KSG-03 | 403266 | 22g    | 184x76x4mm/7.24x2.99x0.15 |
| KSG-04 | 403273 | 22g    | 184x76x4mm/7.24x2.99x0.15 |
| KSG-05 | 403280 | 22g    | 184x76x4mm/7.24x2.99x0.15 |
| KSG-06 | 403297 | 22g    | 184x76x4mm/7.24x2.99x0.15 |

<sup>\*\*</sup>T-mount adapter for each camera system is not included.



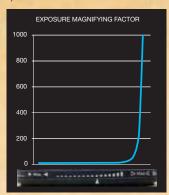


Just turn the outer filter ring - ND2.5 - ND1000

### **Newly Developed Unique Design**

Kenko's uniquely designed variable neutral density filter provides the equivalent brightness range of ND 2.5 to ND 1,000. (practical use being up to ND450).





### Easy to Operate - Easy Framing - Easy Focus

With a tripod mounted camera, use the brightest setting for framing and focus and then increase the density to your desired level by simply turning the outer filter ring.





1.Framing and Focus 2.Turn the outer Ring 3.Adjust the Aperture and Shutter Speed 4. Shoot



### **Polarizing Effect Cancellation**

The Variable NDX filter changes the brightness of light using a polarized filter. This new filter uses a polarizing effect cancellation where a polarized filter is used, but purely for controlling the amount of light with no effect on color balance, glare or reflections.



### **Avoid Vignetting**

The singular versatility of the Variable NDX filter not only replaces a whole set of stacking neutral density filters it also removes vignetting which may be caused by using multiple filters.



## The Benefits of Having a Depolarization Plate

Variable NDX filter using a depolarizing plate Random polarization is eliminated when natural light passes through the depolarization plate, minimizing any change in color by using 2 layers of polarizing film.

| Model                   | Jan#   | Filter size |
|-------------------------|--------|-------------|
| 77mm Kenko Variable NDX | 177792 | 77mm        |
| 82mm Kenko Variable NDX | 182796 | 82mm        |

### **PRO1D R72**





With R72 Filter

Without Filter

| Model          | Jan#   | Filter size |
|----------------|--------|-------------|
| 49mm PRO1D R72 | 324905 | 49mm        |
| 52mm PRO1D R72 | 325209 | 52mm        |
| 55mm PRO1D R72 | 325506 | 55mm        |
| 58mm PRO1D R72 | 325803 | 58mm        |
| 62mm PRO1D R72 | 032626 | 62mm        |
| 67mm PRO1D R72 | 326701 | 67mm        |
| 72mm PRO1D R72 | 032725 | 72mm        |
| 77mm PRO1D R72 | 327708 | 77mm        |
| 82mm PRO1D R72 | 328262 | 82mm        |



Maximum capacity : 600mm f4 + D-SLR body
 It can also carry spotting scope with camera body

| Model               | Jan#   | Internal Dimensions (HxDxW) mm/in. | Outer Dimensions (HxDxW) mm/in.  | Weight        |
|---------------------|--------|------------------------------------|----------------------------------|---------------|
| aosta Sanctuary 650 | 875520 | 170x495x230mm/6.69x19.48x9.05in.   | 245x550x245mm/9.64x21.65x9.64in. | 1925a/67.9oz. |



- Maximum capacity : 400mm f2.8 + D-SLR body
- It can also carry spotting scope with camera body

| Model               | Jan#   | Internal Dimensions (HxDxW) mm/in. | Outer Dimensions (HxDxW) mm/in.  | Weight         |
|---------------------|--------|------------------------------------|----------------------------------|----------------|
| aosta Sanctuary 430 | 875537 | 165x420x220mm/6.49x16.53x8.66in.   | 225x480x230mm/8.85x18.89x9.05in. | 1870g/65.96oz. |
|                     |        |                                    |                                  |                |

### KENKO BINOCULAR STRAP "ultra VIEW"



| Model                              | Jan#   | Material |
|------------------------------------|--------|----------|
| KENKO BINOCULAR STRAP "ultra VIEW" | 514139 | Nylon    |

### KENKO BINOCULAR DISPLAY STAND



### BINOCULARS SPECIFICATIONS

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|---|---------------------------------|------------------|----------------|---|---------------|------------------|------------------------------------|----------------------|
| Series  | Model Name                      | Product #.       | Prism Type     | Obj Diameter  | Magnification | Brightness       | Field of View                      | FOV at 1000m         |
|   | OP 8x42DH Mark II               | 010945           | Roof           | 42  | 8             | 27.6             | 7.5°                               | 131m                 |
| 1   | OP 10x42DH Mark II              | 010952           | Roof           | 42  | 10            | 17.6             | 6.0°                               | 105m                 |
|   | 8x42DH MS                       | 010969           | Roof           | 42  | 8             | 27.5             | 7.3°                               | 127.6m               |
| Kenko   | 10x42DH MS                      | 010976           | Roof           | 42  | 10            | 17.6             | 6.3°                               | 110.1m               |
|   | 8x32DH MS                       | 010983           | Roof           | 32  | 8             | 16.0             | 7.5°                               | 131.1m               |
| SERIES  | 10x32DH MS                      | 010990           | Roof           | 32  | 10            | 10.2             | 6.5°                               | 113.5m               |
| 1   | 8x25DH                          | 102060           | Roof           | 25  | 8             | 9.6              | 5.2°                               | 91m                  |
|   | 10x25DH                         | 102077           | Roof           | 25  | 10            | 6.25             | 5.0°                               | 87.3m                |
|   | OP 8x32 DH II                   | 002889           | Roof           | 32  | 8             | 16.0             | 7.5°                               | 131.1m               |
|   | OP 10x32W DH II                 | 002896           | Roof           | 32  | 10            | 10.2             | 6.0°(Wide)                         | 113.5m               |
|   | OP 8x42 DH ED                   | 002704           | Roof           | 42  | 8             | 27.6             | 6.8°                               | 119m                 |
| ultraVIEW   | OP 10x42 DH ED                  | 002711           | Roof           | 42  | 10            | 17.6             | 5.6°                               | 98m                  |
|   | OP 8x42 DH II<br>OP 10x42 DH II | 002728<br>002735 | Roof           | 42<br>42  | 8<br>10       | 27.6<br>17.6     | 6.5°<br>5.4°                       | 114m<br>94m          |
| EX  | 10x50 DH                        | 002735           | Roof<br>Roof   | 50  | 10            | 25.0             | 5.4<br>5.8°                        | 101m                 |
| SERIES  | 12x50 DH                        | 002742           | Roof           | 50  | 12            | 17.6             | 5.0°                               | 87.3m                |
|   | 8x42 DH                         | 002759           | Roof           | 42  | 8             | 27.6             | 7.5°                               | 131m                 |
|   | 10x42 DH                        | 002700           | Roof           | 42  | 10            | 17.6             | 6.0°                               | 105m                 |
|   | 7x50WP                          | 131916           | Porro          | 50  | 7             | 50.4             | 7.0°                               | 122m                 |
| M-MODEL   | 7x50M IF                        | 011928           | Porro          | 50  | 7             | 50.4             | 7.2°                               | 125.8m               |
| **  | GPS 750                         | 002018           | Porro          | 50  | 7             | 50.4             | 7.2°                               | 125.8m               |
| SERIES  | GPS 718                         | 002025           | Roof           | 18  | 7             | 6.76             | 9.3°                               | 163m                 |
|   | New6x21 DH SGWP                 | 020326           | Roof           | 21  | 6             | 12.2             | 7.5°                               | 131m                 |
|   | New8x32DH II SGWP               | 001806           | Roof           | 32  | 8             | 16.0             | 7.4°                               | 129m                 |
|   | New10x32DH II SGWP              | 011812           | Roof           | 32  | 10            | 10.2             | 5.8°                               | 101m                 |
| NEW S   | New 8x25 DH SGWP                | 020425           | Roof           | 25  | 8             | 9.6              | 6.6°                               | 115.3m               |
| SERIES  | New 10x25 DH SGWP               | 020432           | Roof           | 25  | 10            | 6.25             | 5.4°                               | 94.3m                |
| SERIES  | New8x25 SGWP                    | 011744           | Porro          | 25  | 8             | 9.8              | 6.7°                               | 117m                 |
|   | New10x25 SGWP                   | 011751           | Porro          | 25  | 10            | 6.3              | 5.6°                               | 98m                  |
|   | 7x18DH SGWP                     | 011713           | Roof           | 18  | 7             | 6.76             | 9.3°                               | 163m                 |
|   | 7x50                            | 031124           | Porro          | 50  | 7             | 50.4             | 6.5°                               | 113.6m               |
| Artos   | 10x50W                          | 031131           | Porro          | 50  | 10            | 25.0             | 6.6°(Wide)                         | 115.3m               |
|   | 12x50W                          | 031148           | Porro          | 50  | 12            | 17.6             | 5.5°(Wide)                         | 96.1m                |
| SERIES  | 8x42W                           | 031094           | Porro          | 42  | 8             | 27.6             | 8.2°(Wide)                         | 143.4m               |
|   | 10x42W                          | 031100           | Porro          | 42  | 10            | 17.6             | 6.6°(Wide)                         | 115.3m               |
|   | 12x42W                          | 031117           | Porro          | 42  | 12            | 12.3             | 5.5°(Wide)                         | 96.1m                |
|   | 6x30                            | 020395           | Porro          | 30  | 6             | 25.0             | 8.3°                               | 145.1m               |
|   | 8x30                            | 020401           | Porro          | 30<br>30  | 8<br>10       | 14.1<br>9.0      | 7.0°<br>5.5°                       | 122.3m               |
|   | 10x30<br>8-20x50                | 020418           | Porro          |   |               |                  |                                    | 96.1m<br>78.6-50.6m  |
|   | 7-15x35                         | 002810<br>002803 | Porro<br>Porro | 50<br>35  | 8-20<br>7-15  | 39-6.2<br>25-5.4 | 4.5°-2.9°<br>5.6°-3.7°             | 97.8-64.6m           |
|   | 8x21 DH (Pink)                  | 020333           | Roof           | 21  | 8             | 6.9              | 6.5°                               | 114m                 |
|   | 8x21 DH (Red)                   | 020333           | Roof           | 21  | 8             | 6.9              | 6.5°                               | 114m                 |
|   | 8x21 DH (Purple)                | 020357           | Roof           | 21  | 8             | 6.9              | 6.5°                               | 114m                 |
| laceVIFW  | 10x25 DH (Black)                | 020364           | Roof           | 25  | 10            | 6.3              | 5.4°                               | 94m                  |
| ultraVIEW   | 10x25 DH (White)                | 020371           | Roof           | 25  | 10            | 6.3              | 5.4°                               | 94m                  |
| SERIES  | 10x25 DH (Silver)               | 020388           | Roof           | 25  | 10            | 6.3              | 5.4°                               | 94m                  |
|   | 8x21 (Pink)                     | 020265           | Porro          | 21  | 8             | 6.9              | 7.0°                               | 122m                 |
|   | 8x21 (Red)                      | 020272           | Porro          | 21  | 8             | 6.9              | 7.0°                               | 122m                 |
|   | 8x21 (Purple)                   | 020289           | Porro          | 21  | 8             | 6.9              | 7.0°                               | 122m                 |
|   | 10x21 (Black)                   | 020296           | Porro          | 21  | 10            | 4.4              | 6.0°                               | 105m                 |
|   | 10x21 (White)                   | 020302           | Porro          | 21  | 10            | 4.4              | 6.0°                               | 105m                 |
| <u> </u>  | 10x21 (Silver)                  | 020319           | Porro          | 21  | 10            | 4.4              | 6.0°                               | 105m                 |
|   | 8X21 DH SG                      | 020227/020241    | Roof           | 21  | 8             | 6.89             | 7.1°                               | 124m                 |
| SG  | 10X25 DH SG                     | 020234/020258    | Roof           | 25  | 10            | 6.25             | 5.6°                               | 98m                  |
| SERIES  | 6x16 SG                         | 111673           | Roof           | 16  | 6             | 6.2              | 9.1°                               | 114x159m             |
| JENILJ  | 8x18 SG                         | 111680           | Roof           | 18  | 8             | 3.9              | 7.0°                               | 86x122m              |
| CERES New Mirage  | 8x42                            | 031728           | Porro          | 42  | 8             | 27.6             | 6.8°                               | 112m                 |
| •   | 7x50                            | 031681           | Porro          | 50  | 7             | 50.4             | 6.8°                               | 118.8m               |
| SERIES  | 10x50W                          | 031698           | Porro          | 50  | 10            | 25               | 6.5°(Wide)                         | 114m                 |
| CEDEC   | 8x21 CF                         | 011829           | Porro          | 21  | 8             | 6.76             | 7.0°                               | 122m                 |
| CERES   | 10x21 CF                        | 011836           | Porro          | 21  | 8 7 21        | 4.41             | 6.5°                               | 114m                 |
| SERIES  | 7-21x21 MC<br>10-50x27 MC       | 116906<br>011843 | Porro<br>Porro | 21<br>27  | 7-21<br>10-50 | 9-1<br>7.29-0.29 | 4.3°-2.3°<br>3.3°-1.3°             | 75-40m<br>58-21m     |
|   | 18-100x28 MC                    | 011843           | Porro          | 28  | 18-100        | 2.42-0.08        | 3.3 -1.3<br>1.5°-0.5°              | 26.2-8.75m           |
| Kenko ASTRONOMY   | 7x32 SWA                        | 131909           | Roof           | 32  | 7             | 2.42-0.08        | 1.5 -0.5<br>13.1°                  | 245m                 |
| VEHKO AZIKONOMA   | 7 X32 3VX                       | 131707           | 11001          | JZ  | /             | 20.0             | 13.1                               | 2+3111               |

## BINOCULARS SPECIFICATIONS

| State of the last | THE REAL PROPERTY.          | A PART AND        | No. of the last of | Series II                      |            |              | Control of the last | -        |
|---|-----------------------------|-------------------|--|--------------------------------|------------|--------------|---------------------|----------|
| Eye Relief  | Close Focus Distance        | Exit Pupil        | Dimensions (HxDxW)   | Weight                         | Eco Glass  | Multi-Coat   | Water Proof         | Page     |
| 18mm  | 2.5m/8.2ft.                 | 5.25mm            | 167x58x145mm/6.57x2.28x5.7in.  | 900g/31.74oz.                  | Yes        | Full         | Yes                 | 6        |
| 15mm  | 2.5m/8.2ft.                 | 4.2mm             | 167x58x145mm/6.57x2.28x5.7in.  | 900g/31.74oz.                  | Yes        | Full         | Yes                 | 6        |
| 20mm  | 2.5m/8.2ft.                 | 5.25mm            | 133.5x55.5x125.5mm/5.25x2.18x4.94in.   | 700g/24.69oz.                  | Yes        | Full         | Yes                 | 6        |
| 15.3mm  | 2.5m/8.2ft.                 | 4.2mm<br>4.0mm    | 133.5x55.5x125.5mm/5.25x2.18x4.94in.   | 700g/24.69oz.                  | Yes        | Full         | Yes                 | 6        |
| 15.3mm<br>15.3mm  | 2.5m/8.2ft.                 | 4.0mm<br>3.2mm    | 116x52.7x129mm/4.56x2.07x5.07in.   | 560g/19.75oz.                  | Yes<br>Yes | Full<br>Full | Yes<br>Yes          | 7        |
| 15.3mm  | 2.5m/8.2ft.                 | 3.2mm<br>3.1mm    | 116x52.7x129mm/4.56x2.07x5.07in.   | 590g/20.81oz.                  |            |              | Yes                 | 7        |
| 17mm  | 2m/6.56ft.<br>2m/6.56ft.    | 2.5mm             | 110x37x106mm/4.33x1.45x4.17in.<br>110x37x108mm/4.33x1.45x4.25in.   | 390g/13.75oz.<br>390g/13.75oz. | Yes<br>Yes | Full<br>Full | Yes                 | 7        |
| 14.8mm  | 2.5m/8.2ft.                 | 4.0mm             | 138x52x127.3mm/5.43x2.04x5.01in.   | 455g/16.04oz.                  | No         | Full         | Yes                 | 8        |
| 14.8mm  | 2.5m/8.2ft.                 | 3.2mm             | 138x52x127.3mm/5.43x2.04x5.01in.   | 470g/16.57oz.                  | No         | Full         | Yes                 | 8        |
| 18.4mm  | 2m/6.56ft.                  | 5.15mm            | 156x52x126mm/6.14x2.04x4.90in.   | 705g/24.86oz.                  | No         | Full         | Yes                 | 8        |
| 15.2mm  | 2m/6.56ft.                  | 4.15mm            | 151x52x122mm/5.94x2.04x4.80in.   | 685g/24.16oz.                  | No         | Full         | Yes                 | 8        |
| 18.8mm  | 4.5m/14.76ft.               | 5.15mm            | 156x52x126mm/6.14x2.04x4.96in.   | 665g/23.45oz.                  | No         | Full         | Yes                 | 9        |
| 15.2mm  | 4.5m/14.76ft.               | 4.15mm            | 151x52x122mm/5.94x2.04x4.80in.   | 655g/23.10oz.                  | No         | Full         | Yes                 | 9        |
| 19mm  | 3.8m/12.46ft.               | 5.0mm             | 169x63x141mm/6.65x2.48x5.55in.   | 830g/29.27oz.                  | Yes        | Full         | Yes                 | 9        |
| 15.5mm  | 3.8m/12.46ft.               | 4.2mm             | 164x63x141mm/6.45x2.48x5.55in.   | 810g/28.57oz.                  | Yes        | Full         | Yes                 | 9        |
| 19mm  | 2.5m/8.2ft.                 | 5.25mm            | 131x51x148mm/5.15x2.0x5.82in.  | 660g/23.28oz.                  | Yes        | Full         | Yes                 | 9        |
| 14mm  | 2.5m/8.2ft.                 | 4.2mm             | 131x51x148mm/5.15x2.0x5.82in.  | 650g/22.92oz.                  | Yes        | Full         | Yes                 | 9        |
| 18mm  | 6m/19.68ft.                 | 7.1mm             | 180x70x183mm/7.08x2.75x7.2in.  | 870g/30.68oz.                  | Yes        | Magenta      | Yes                 | 10       |
| 24.9mm  | 10m/32.8ft.                 | 7.1mm             | 142x76x200mm/5.59x2.99x7.87in.   | 1,080g/38.09oz.                | Yes        | Yes          | Yes                 | 10       |
| 23mm  | 10m/32.8ft.                 | 7.1mm             | 117.5x88.5x197mm/4.62x3.48x7.75in.   | 1,100g/38.8oz.                 | No         | Yes          | Yes                 | 11       |
| 10.5mm  | 5m/16.4ft.                  | 2.6mm             | 85x43x113mm/3.34x1.69x4.44in.  | 178g/6.27oz.                   | No         | Yes          | No                  | 11       |
| 13mm  | 3m/9.84ft.                  | 3.5mm             | 88x47x106mm/3.64x1.85x4.17in.  | 210g/7.4oz.                    | No         | Yes          | Yes                 | 12       |
| 17.5mm  | 2m/6.56ft.                  | 4.0mm             | 128x47x121mm/5.03x1.85x4.76in.   | 560g/19.75oz.                  | No         | Yes          | Yes                 | 12       |
| 14mm  | 2m/6.56ft.                  | 3.2mm             | 128x47x121mm/5.03x1.85x4.76in.   | 560g/19.75oz.                  | No         | Yes          | Yes                 | 12       |
| 14mm  | 3m/9.84ft.                  | 3.1mm             | TO BE DETERMINED   | TBD                            | No         | Yes          | Yes                 | 12       |
| 14mm  | 3m/9.84ft.                  | 2.5mm             | TO BE DETERMINED   | TBD                            | No         | Yes          | Yes                 | 12       |
| 15mm  | 2.3m/7.54ft.                | 3.1mm             | 119x109x50mm/4.68x4.29x1.96in.   | 350g/12.34oz.                  | Yes        | Yes          | Yes                 | 12       |
| 15mm  | 2.3m/7.54ft.                | 2.5mm             | 119x109x50mm/4.68x4.29x1.96in.   | 350g/12.34oz.                  | Yes        | Yes          | Yes                 | 12       |
| 10.5mm<br>18.1mm  | 5m/13.12ft.                 | 2.6mm<br>7.1mm    | 83x31x110mm/3.26x1.22x4.33in.<br>165x77x185mm/6.49x3.03x7.28in.  | 142g/5.0oz.<br>880g/31.04oz.   | No<br>Yes  | Yes<br>Yes   | Yes<br>Yes          | 12<br>13 |
| 18.111111<br>15.5mm   | 10m/32.8ft.<br>8.2m/26.9ft. | 5.0mm             | 165x77x185mm/6.49x3.03x7.28in.   | 880g/31.04oz.                  | Yes        | Yes          | Yes                 | 13       |
| 15.8mm  | 7.5m/24.6ft.                | 4.2mm             | 165x77x185mm/6.49x3.03x7.28in.   | 880g/31.04oz.                  | Yes        | Yes          | Yes                 | 13       |
| 17mm  | 5.5m/18.04ft.               | 5.3mm             | 138.5x73x176mm/5.45x2.87x6.92in.   | 770g/27.16oz.                  | Yes        | Yes          | Yes                 | 13       |
| 16mm  | 5.5m/18.04ft.               | 4.2mm             | 138.5x73x176mm/5.45x2.87x6.92in.   | 770g/27.16oz.                  | Yes        | Yes          | Yes                 | 13       |
| 16.5mm  | 5.5m/18.04ft.               | 3.5mm             | 138.5x73x176mm/5.45x2.87x6.92in.   | 770g/27.16oz.                  | Yes        | Yes          | Yes                 | 13       |
| 19mm  | 3m/9.84ft.                  | 5.0mm             | TO BE DETERMINED   | TBD                            | No         | Yes          | Yes                 | 14       |
| 17mm  | 3m/9.84ft.                  | 3.75mm            | TO BE DETERMINED   | TBD                            | No         | Yes          | Yes                 | 14       |
| 18mm  | 3m/9.84ft.                  | 3.0mm             | TO BE DETERMINED   | TBD                            | No         | Yes          | Yes                 | 14       |
| 20-15mm   | 10m/32.8ft.                 | 6.2-2.5mm         | 185x77x180mm/7.28x3.03x7.08in.   | 900g/31.74oz.                  | Yes        | Magenta      | No                  | 14       |
| 20-16mm   | 10m/32.8ft.                 | 5.0-2.3mm         | 130x77x168mm/5.11x3.03x6.61in.   | 700g/24.69oz.                  | Yes        | Magenta      | No                  | 14       |
| 11mm  | 3m/9.84ft.                  | 2.6mm             | TO BE DETERMINED   | TBD                            | No         | Yes          | No                  | 15       |
| 11mm  | 3m/9.84ft.                  | 2.6mm             | TO BE DETERMINED   | TBD                            | No         | Yes          | No                  | 15       |
| 11mm  | 3m/9.84ft.                  | 2.6mm             | TO BE DETERMINED   | TBD                            | No         | Yes          | No                  | 15       |
| 11mm  | 3m/9.84ft.                  | 2.5mm             | TO BE DETERMINED   | TBD                            | No         | Yes          | No                  | 15       |
| 11mm  | 3m/9.84ft.                  | 2.5mm             | TO BE DETERMINED   | TBD                            | No         | Yes          | No                  | 15       |
| 11mm  | 3m/9.84ft.                  | 2.5mm             | TO BE DETERMINED   | TBD                            | No         | Yes          | No                  | 15       |
| 11mm  | 6m/19.68ft.                 | 2.6mm             | 82x45x102mm/3.22x1.77x4.01in.  | 190g/6.70oz.                   | Yes        | Yes          | No                  | 15       |
| 11mm  | 6m/19.68ft.                 | 2.6mm             | 82x45x102mm/3.22x1.77x4.01in.  | 190g/6.70oz.                   | Yes        | Yes          | No                  | 15       |
| 11mm<br>11mm  | 6m/19.68ft.<br>7m/22.96ft.  | 2.6mm<br>2.1mm    | 82x45x102mm/3.22x1.77x4.01in.<br>82x45x102mm/3.22x1.77x4.01in.   | 190g/6.70oz.<br>192g/6.77oz.   | Yes<br>Yes | Yes<br>Yes   | No<br>No            | 15<br>15 |
| 11mm  | 7m/22.96ft.                 | 2.111111<br>2.1mm | 82x45x102mm/3.22x1.77x4.01iii.   | 192g/6.77oz.                   | Yes        | Yes          | No                  | 15       |
| 11mm  | 7m/22.96ft.                 | 2.1mm             | 82x45x102mm/3.22x1.77x4.01in.  | 192g/6.77oz.                   | Yes        | Yes          | No                  | 15       |
| 11mm  | 5m/16.4ft.                  | 2.6mm             | 105x35x98mm/4.13x1.37x3.85in.  | 210g/7.4oz.                    | No         | Magenta      | No                  | 16       |
| 11mm  | 5m/16.4ft.                  | 2.5mm             | 105x40x115mm/4.13x1.57x4.52in.   | 235g/8.28oz.                   | No         | Magenta      | No                  | 16       |
| 11.4mm  | 1m/3.28ft.                  | 1.8x2.7mm         | 73x22x106mm/2.87x0.86x4.17in.  | 118g/4.16oz.                   | No         | Yes          | No                  | 16       |
| 11.4mm  | 2m/6.56ft.                  | 1.4x2.3mm         | 73x22x106mm/2.87x0.86x4.17in.  | 118g/4.16oz.                   | No         | Yes          | No                  | 16       |
| -   | 5.5m/18.04ft.               | -                 | 140x57x190mm/5.51x2.24x7.48in.   | 650g/22.92oz.                  | No         | Magenta      | No                  | 17       |
| -   | 8m/26.24ft.                 | -                 | 167x65x198mm/6.57x2.55x7.79in.   | 790g/27.86oz.                  | No         | Magenta      | No                  | 17       |
| -   | 6m/19.68ft.                 | -                 | 167x65x198mm/6.57x2.55x7.79in.   | 790g/27.86oz.                  | No         | Magenta      | No                  | 17       |
| -   | 6m/19.68ft.                 | -                 | 80x40x113mm/3.14x1.57x4.44in.  | 140g/4.93oz.                   | No         | No           | No                  | 17       |
| -   | 6m/19.68ft.                 | -                 | 80x40x113mm/3.14x1.57x4.44in.  | 140g/4.93oz.                   | No         | No           | No                  | 17       |
| -   | 3.5m/11.48ft.               | -                 | 92x48x108mm/3.62x1.88x4.25in.  | 265g/9.34oz.                   | No         | Yes          | No                  | 17       |
| -   | 5m/16.4ft.                  | -                 | 112x43x110mm/4.4x1.69x4.33in.  | 300g/10.58oz.                  | No         | Yes          | No                  | 17       |
| -   | 6m/19.68ft.                 | -                 | 121x57x112mm/4.76x2.24x4.4in.  | 340g/11.99oz.                  | No         | Yes          | No                  | 17       |
| 8mm   | 3m/9.84ft.                  | 4.57mm            | 113x65x115mm/4.44x2.55x4.52in.   | 710g/25.04oz.                  | No         | Magenta      | No                  | 21       |





### Kenko Tokina Co., Ltd

3-9-19 NISHI-OCHIAI, SHINJUKU-KU, TOKYO 161-8570 JAPAN Phone: 81-3-5982-3206 Fax: 81-3-5982-3229 www.kenkoglobal.com

