Kowa

TELEPHOTO LENS/SCOPE

PROMINAR 500mm F5.6 FL

Available Mounts : Nikon, Canon, Pentax, Micro Four-Thirds

Telephoto Lens

Spotting Scope

http://www.kowa-prominar.com/

Telephoto Lens

Fluorite Crystal Lens - The Pinnacle of Quality [PROMINAR] Super Telephoto Lens

To minimize chromatic aberration (color blur) that occurs in long focal length lenses, the [PROMINAR] telephoto lens utilizes one pure fluorite crystal lens and two XD (eXtra-low-Dispersion) lenses. Bringing together the advanced optical technology fostered through decades of spotting scope development with the use of a fluorite crystal lens has produced a camera lens with extremely high contrast and sharp images.

PROMINAR 500mm F5.6 FL

Spotting Scope

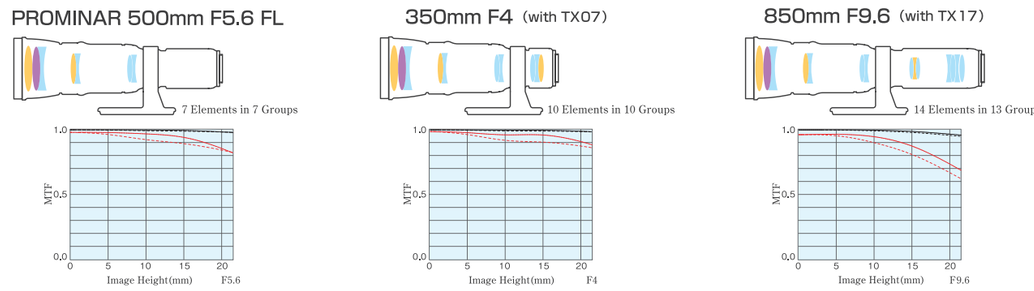
Two Products in One
Use as a High-Performance Camera Lens and Spotting Scope

Making effective use of the outstanding optical system of the master lens, the telephoto lens can also be used as a spotting scope by connecting it to the optional prism unit and eyepiece. Through the use of a simple and easy to use bayonet mounting system, switching between “photographing” and “observation” with the lens is easily accomplished. When used as a spotting scope, crystal clear images can be enjoyed since there is no focusing screen.

350mm, 500mm, and 850mm
Three Focal Lengths in One Lens

From the standard specification of “500mm F5.6”, it is possible to change the focal length of the lens so that it can be used as a brighter “350mm F4” lens or as a longer telephoto “850mm F9.6” lens. This is accomplished by using the optional mount adapters [TX07] or [TX17]. XD lenses are incorporated in the optical designs of the 350mm and 850mm mount adapters to ensure optimal optical performance when combined with the master lens. (All support 35mm full size.)

500mm F5.6



Interchangeable Mount System Allows Effective Use of Multiple Cameras

Anticipating uses unforeseen by digital camera manufacturers, bayonet mount systems have been adopted by manufacturers to allow easy mounting and release of the camera. The Kowa mount adapters have adopted this bayonet mount system to easily change between cameras and other mount adapters. Since the prism unit also utilizes a bayonet system, switching between photographing and observation can also be easily carried out.

Available Mounts: Nikon, Canon, Pentax, Micro Four-Thirds

Digiscoping Opens up a World of Even Higher Super Tele-Photography of 1000mm - 3000mm+

By connecting a digital camera adapter to the lens when configured for use as a scope, it is possible to digiscope using a compact digital camera.
Through digiscoping, it is possible to achieve focal lengths of 1000mm to 3000mm* and more, allowing photographing of wild birds and other subjects at long distances that would not ordinarily be possible with digital SLR cameras alone. By using both a digital SLR camera and a compact digital camera with the main lens it is possible to cover focal lengths from 350mm to more than 3000mm* with a single lens.

* 35mm film full size equivalent focal length

850mm F9.6

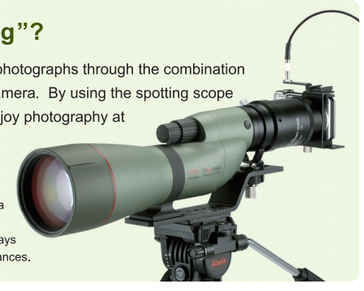
Connecting with a Compact Digital Camera

What is “Digiscoping”?

Digiscoping is a method of taking photographs through the combination of a spotting scope and a digital camera. By using the spotting scope as a telephoto lens, it is easy to enjoy photography at focal lengths over 1000mm*.

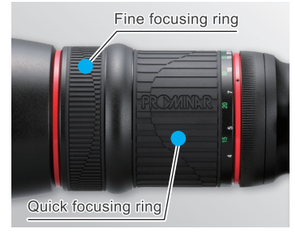
* 35mm film full size equivalent focal length

Note : Depending on the digital camera, it may not be possible to connect the camera to the adapter. The combination of the eyepiece and the digital camera are not always ideal and vignetting may occur in these instances.



Easy to Use Dual Focus

To accurately adjust the focus when focusing manually, the popular Kowa spotting scope dual focus system had been adopted for this lens.
Combined with an optical system that allows the focus peak to be easily found, there are two focusing rings, consisting of a quick focusing ring for rapid focus adjustment and a fine focusing ring for detailed focus adjustment. These make it possible to accurately adjust the focus even in the severest focusing conditions encountered in super-telephoto photography.



Lightweight and Compact Design with Outstanding Portability

This 500mm super-telephoto lens weight is about 1.9kg.(4.18 lbs.)
The compact size makes it extremely portable and its lightweight design allows for hand-held shooting. In addition, with a length of only 250mm(9.8 in) (when the mount adapter is removed) the lens can easily be carried in a small backpack.

Long Hood with Attached Sighting Device

A lightweight long hood is provided as a standard accessory.
The hood mounting screw has a special shape that allows it to be used together with the sight attached to the camera, aiding the swift introduction of the subject into the field of view when attempting super-telephoto photography.

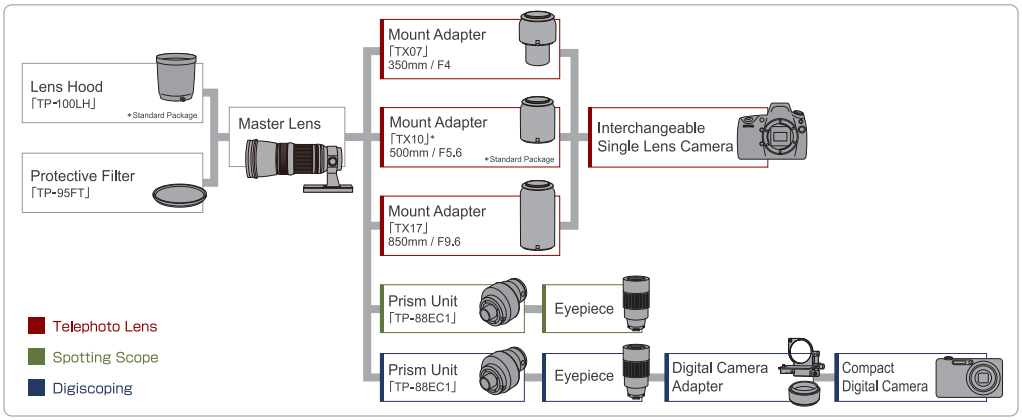
Easy Mounting on Tripod Heads

The design of the tripod mounting foot allows it to be mounted directly to mounting on the camera plates or quick release plates of some tripod heads manufactured by Manfrotto and GITZO without the need of the quick release plate. Mounting and release from the tripod head is easy and the system can be used without worrying about the quick release plate coming loose. Mounting to other tripod heads is possible (1/4” threads are supported.)

Dustproof and Weatherproof Structure

The objective lens and focusing units utilize rubber O-rings to seal the housing of the lens for enhanced dust and weatherproofing.

System Configuration



Standard Package

① Master Lens
② Mount Adapter「TX10」
Available Mounts：Nikon, Canon, Pentax, Micro Four-Thirds
③ Lens Hood「TP-100LH」
④ Objective Cap
⑤ Mount Adapter Cover
⑥ Mount Lens Cover
⑦ Camera Mount Cover
⑧ Sights (S/M/L)
・ Manual

Specifications

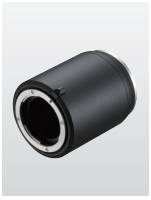
	Standard Package	Optional Mount Adapters	
Model	500mm F5.6 (with TX10)	350mm F4 (with TX07)	850mm F9.6 (with TX17)
Focal Length	500mm	350mm	850mm
Maximum Aperture	F5.6	F4	F9.6
Lens Construction	7 Elements in 7 Groups	10 Elements in 10 Groups	14 Elements in 13 Groups
Fluorite Crystal Lens	1	1	1
XD Lens	2	3	3
Field of View (Full Size)	4.9°	7.0°	2.9°
F-number	F5.6~11	F4~8	F9.6~19
Iris Blades	9	9	9
Minimum Focusing Distance	3m	3m	3m
Maximum Reprojection Ratio	0.17×	0.12×	0.29×
Filter thread	φ95mm	φ95mm	φ95mm
Weight*	1970g(69.5 oz)	2025g(71.6 oz)	2270g(80.2 oz)
Maximum Diameter × Length*	φ104×341mm(φ4×13.4in)	φ104×296mm(φ4×11.7in)	φ104×396mm(φ4×15.6in)

*Dimensions without Nikon mount adapter or hood

500mm Mount Adapter [TX10]

Available Mounts
Nikon, Canon, Pentax, Micro Four-Thirds

500mm focal length mount adapters. Please contact Kowa regarding the availability of mounts for cameras other than those listed above.



Lens Hood [TP-100LH]

A lightweight long hood in provided as a standard accessory.

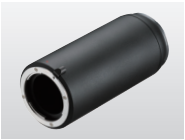
Options

350mm Mount Adapter [TX07]

Available Mounts
Nikon, Canon, Pentax, Micro Four-Thirds

When used in place of the 500mm mount adapter, the lens will become a 350mm F4 lens.

850mm Mount Adapter [TX17]



Available Mounts
Nikon, Canon, Pentax, Micro Four-Thirds

When used in place of the 500mm mount adapter, the lens will become an 850mm F9.6 lens.

Protective Filter [TP-95FT] Coming Soon

Filter thread：95mm

This protective filter has water and oil repelling coatings for easy removal of fingerprints and water droplets.

Prism Unit [TP-88EC1] Coming Soon

When the TSN-880/770 series spotting scope eyepieces are used with the prism unit, the lens can be used as a spotting scope.
*By using the TSN-EC3 eyepiece converter, the eyepieces for the "TSN-660/600" series spotting scopes can also be used.

Eyepieces

When eyepieces are used with the prism unit, the lens can be used as a spotting scope.

Model	Magnification	Realfield of View	Exit Pupil Dia.	Relative Brightness	Eye Relief
① TE-10Z	22~66×	2.0°~0.95°	4.0~1.3mm	16~1.8	17.0~16.5mm
② TE-17W	33×	2.2°	2.7mm	7.1	20.0mm
③ TE-20H	28×	1.9°	3.2mm	10.2	32.0mm
④ TE-9Z*	26~78×	1.45°~0.75°	3.4~1.1mm	11.3~1.3	16.5~16.0mm
⑤ TE-14WD*	40×	1.8°	2.2mm	4.8	20.0mm
⑥ TE-9WD*	60×	1.1°	1.5mm	2.2	15.0mm
⑦ TE-17HD*	32×	1.6°	2.7mm	7.4	32.0mm

*When using eyepieces TE-9Z/14WD/9WD/17HD, TSN-EC3 is necessary.

Eyepiece Converter [TSN-EC3]

The TSN-EC3 eyepiece converter is required when eyepieces④-⑦ in the left table are used.

Precautions for Use | For correct and safe use of this product:

Before using the product, be certain to carefully read the instruction manual.
Do not under any circumstances use this product to look at the sun, since this may result in loss of eyesight.

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