

Pure Experience



DIGISCOPING & TELEPHOTO FOCAL LENGTH GUIDE



Pure Experience



CAPTURE MOMENTS OTHERS MIGHT MISS...

Digiscoping opens up a whole new world of photographic opportunities. A compact system with unprecedented telephoto power.

Shoot from a respectful distance and capture images of natural, undisturbed wildlife in all its glory.

Enjoy lighter, less bulky equipment with a dual purpose - one moment observe, the next, combine and create stunning detailed memories to last a lifetime.



Image digiscoped by Robert Wilton
Kowa TSN-884 spotting scope
Kowa TE-11WZ eyepiece
Kowa TSN-DA10 digiscoping adapter
Kowa AR46 filter ring
Olympus OMD EM-5MKII
Olympus 25mm f1.8mm lens







AT THE FOREFRONT OF DIGISCOPING

Digiscoping is the method of attaching a digital camera or smart phone to a spotting scope body to create highly magnified still images and video. By combining the optics of a Kowa spotting scope with the optics of a camera, the telephoto power of a Kowa digiscoping system far exceeds that of traditional telephoto lenses as well as being far more compact and lightweight.

Kowa offers a range of affordable digiscoping adapters. When combined with our legendary range of super high quality, pure fluorite crystal spotting scopes, the results can be truly spectacular.

Kowa digiscoping adapters are designed to make digiscoping easy and connect to our spotting scopes quickly and securely.

Kowa

KOWA TSN-PA7



VIDEO
DEMONSTRATION

Digiscoping adapter for DSLR, compact system and Micro Four Third camera bodies.

The Kowa TSN-PA7 D-SLR digiscoping adapter transforms a KOWA TSN 880/770 series spotting scope into an extremely high powered telephoto lens for a DSLR, compact system or micro four thirds camera body. Allowing you to not only experience stunningly sharp views of the world around you, but also take highly magnified, detailed and vibrant photographs and videos.

The TSN-PA7 connects your camera body directly to the body of the spotting scope and eyepiece via a T2 mount, creating a high powered, yet lightweight and compact telephoto lens,

Designed to be used with the Kowa TE-11WZ / TE-10Z zoom eyepieces, the design allows for the full use of the zoom eyepiece range giving an amazing focal length reach.

Focus is achieved by using the responsive dual manual focus wheels on the scope body. Incorporating quick and ultra fine focus options, you are in full control of focussing. No more frustrating auto-focus hunting. The decision is yours, quickly and accurately manually focusing on even the most challenging of subjects.

Alternate between observation and photography with speed and ease. The TSN-PA7 simply slides over the eyepiece and quickly secures/releases via a unique collar that screws on to the spotting scope body.



FULL FRAME FORMAT

Kowa TSN-884 spotting scope
Kowa TE-11WZ 25-60x eyepiece
Kowa TSN-PA7 digiscoping adapter
Sony A7R full frame digital camera body



Reference shot 50mm
Subject distance 38m (laser range-finder measurement)



Eyepiece: 25x optical zoom
Focal length equivalent 1000mm



Eyepiece: 40x optical zoom
Focal length equivalent 1750mm



Eyepiece: 60x optical zoom
Focal length equivalent 2450mm

APS-C FORMAT

Kowa TSN-884 spotting scope
Kowa TE-11WZ 25-60x eyepiece
Kowa TSN-PA7 digiscoping adapter
Canon 60D APS-C digital camera body



Reference shot 50mm
Subject distance 38m (laser range-finder measurement)



Eyepiece: 25x optical zoom
Focal length equivalent 1600mm



Eyepiece: 40x optical zoom
Focal length equivalent 2800mm



Eyepiece: 60x optical zoom
Focal length equivalent 3920mm

MICRO FOUR THIRDS FORMAT

Kowa TSN-884 spotting scope
Kowa TE-11WZ 25-60x eyepiece
Kowa TSN-PA7 digiscoping adapter
Panasonic GH4 MFT camera body



Reference shot 50mm
Subject distance 38m (laser range-finder measurement)



Eyepiece: 25x optical zoom
Focal length equivalent 2000mm



Eyepiece: 40x optical zoom
Focal length equivalent 3500mm



Eyepiece: 60x optical zoom
Focal length equivalent 4900mm

KOWA TSN-EX16



VIDEO
DEMONSTRATION

1.6x extender for use with Kowa TSN 880/770 series spotting scopes.

The Kowa TSN-EX16 increases the magnification of the current Kowa TSN-880/770 spotting scopes by 1.6x when combined with the original eye-piece.

Kowa optical technology and superior lens coatings deliver superb optical performance with less than 5% light loss even at high magnifications.

Perfect for long range observation and digiscoping for both terrestrial and astronomical subjects.

The high quality engineered TSN-EX16 is easily mounted on the accessory thread of the Kowa TSN-880/770 scopes between scope body & eyepiece. The styling perfectly complements the spotting scope body.

The TSN-EX16 features a bayonet mount for Kowa compatible eyepieces. The TSN-EX16 can be used on angled and straight spotting scopes from the Kowa TSN-880/770 series.

The TSN-EX16 1.6x Extender is fully compatible with a range of Kowa digiscoping adapters. Incredible telephoto power far beyond any conventional photography system and much more compact.



FULL FRAME FORMAT

Kowa TSN-884 spotting scope
Kowa TE-11WZ 25-60x eyepiece
Kowa TSN-PA7 digiscoping adapter
Kowa TSN-EX16 1.6x extender
Sony A7R full frame digital camera body



Eyepiece: 25x optical zoom
Extender 1.6x: 40x optical zoom
Focal length equivalent 1600mm



Eyepiece: 60x optical zoom
Extender 1.6x: 96x optical zoom
Focal length equivalent 3920mm

APS-C FORMAT

Kowa TSN-884 spotting scope
Kowa TE-11WZ 25-60x eyepiece
Kowa TSN-PA7 digiscoping adapter
Kowa TSN-EX16 1.6x extender
Canon 60D APS-C digital camera body



Eyepiece: 25x optical zoom
Extender 1.6x: 96x optical zoom
Focal length equivalent 2560mm



Eyepiece: 60x optical zoom
Extender 1.6x: 96x optical zoom
Focal length equivalent 6272mm

KOWA TSN-DA10



VIDEO
DEMONSTRATION

Kowa digiscoping system for Micro Four Third camera bodies and compact lenses up to 25mm (50mm MFT).

The Kowa TSN-DA10 is perfectly suited to the compact and lightweight Micro Four Thirds camera system bodies and Micro Four Third compact lenses up to 25mm focal length (full size) (50mm MFT equivalent). Use with our flagship 880/770 series spotting scopes combined with a Kowa TE-11WZ or TE-10Z eyepiece.

Set-up takes less than a minute. Simply unscrew the eyepiece eye-relief cap and screw on the DA10 collar in its place. Screw the DA10 adapter to your MFT lens filter thread. The DA10 fits lenses with a 43mm filter thread. If your lens has a different size filter – simply add one of our adapter rings - AR28/30/30.5/37/43/46 /52/55/58/62/72mm between your lens and the DA10. Finally push the connected DA10 and camera body combination over the collar and secure.

You can easily switch from landscape to portrait position and quickly slide off for normal observation. All camera functions remain including camera lens auto-focus and focus peaking. The full zoom range of the eyepiece is available creating incredible telephoto possibilities for such a compact system.



MICRO FOUR THIRDS FORMAT

Kowa TSN-884 spotting scope
Kowa TE-11WZ 25-60x eyepiece
Kowa TSN-DA10 digiscoping adapter
Panasonic GH4 MFT camera body
Panasonic 20mm pancake lens



Eyepiece: 25x optical zoom
Focal length equivalent 1000mm



Eyepiece: 60x optical zoom
Focal length equivalent 2400mm



Eyepiece: 25x optical zoom
Extender 1.6x: 40x optical zoom
Focal length equivalent 1600mm



Eyepiece: 60x optical zoom
Extender 1.6x: 96x optical zoom
Focal length equivalent 3840mm

KOWA TELEPHOTO LENS



VIDEO
DEMONSTRATION

Modular telephoto lens system with 350, 500 and 850mm focal length adapters.

A unique and innovative product designed to meet the huge challenges associated with telephoto photography. A truly compact, flexible and ultra portable telephoto lens that does not compromise on optical quality. As with all Kowa optics, the telephoto lens delivers simply stunning images made possible by a pure fluorite crystal lens and two XD extra low dispersion lenses producing the highest levels of sharpness and contrast. Enhanced dust and weather-proofing ensures guaranteed performance in the toughest of environments.

The lens unit features dual, manual focus rings, incorporating quick and ultra fine focus options. You are in full control of focussing. No more frustrating auto-focus hunting. The decision is yours, quickly and accurately focus on even the most challenging of subjects.

The Kowa telephoto lens is designed to meet the demanding needs of the telephoto photographer, featuring a unique, interchangeable focal length adapter system. Along with the standard 500mm f5.6, you may choose the bright 350mm f4 or for even greater telephoto work, the 850mm f9.6 adapter. Featuring XD lenses, these adapters deliver a level of sharpness worthy of the master lens. All three quickly and securely attach to the main lens unit and your camera body in seconds.

Supported mounts:

Nikon, Canon, Pentax, Micro Four Thirds, Sony "A".



FULL FRAME FORMAT

Kowa Telephoto lens
Sony A7R full frame digital camera body



Reference shot 50mm
Subject distance 38m (laser range-finder measurement)



Kowa TX07 350mm f4
Focal length equivalent 350mm



Kowa TX10 500mm f5.6
Focal length equivalent 500mm



Kowa TX17 850mm f9.6
Focal length equivalent 850mm

APS-C
FORMAT

Kowa Telephoto lens
Canon 60D APS-C digital camera body



Reference shot 50mm
Subject distance 38m (laser range-finder measurement)



Kowa TX07 350mm f4
Focal length equivalent 560mm



Kowa TX10 500mm f5.6
Focal length equivalent 800mm



Kowa TX17 850mm f9.6
Focal length equivalent 1360mm

MICRO FOUR THIRDS FORMAT

Kowa Telephoto lens
Panasonic GH4 digital camera body



Reference shot 50mm
Subject distance 38m (laser range-finder measurement)



Kowa TX07 350mm f4
Focal length equivalent 700mm



Kowa TX10 500mm f5.6
Focal length equivalent 1000mm



Kowa TX17 850mm f9.6
Focal length equivalent 1700mm

KOWA SMART PHONE



VIDEO
DEMONSTRATION

Easy to use digiscoping adapters for a selection of iPhone and Samsung Galaxy series smart phones.

Transform your smartphone in to super telephoto lens*.

Combine the high quality camera and HD/4K video functions of your smart phone with the power and legendary quality of a Kowa spotting scope or binocular to create an ultra compact, high quality super telephoto lens.

It couldn't be easier to start taking highly magnified images or video with your ismartphone and Kowa optic via the Kowa smart phone digiscoping adapter.

Simply slot your phone into the holder and screw on the appropriate adapter ring - that's all there is to it -then push the adapter over the eyepiece of your spotting scope and you're ready to digiscope - the whole process takes seconds.

A smartphone is a great way to digiscope -the large highly detailed screens are perfect for composing yourimage. You can also use your headphones as a remote shutterrelease for hands free operation. Print detailed images up to A3 in size.

It's the perfect way to share your proud digiscoping images with family and friends around the world.

*Adapters available for specific smartphone models. Additional adapter ring required.
See www.kowaoptic.com for more information.



SMART PHONE FORMAT

Kowa TSN-884 spotting scope
Kowa TE-11WZ 25-60x eyepiece
Kowa TSN-IP5 iPhone adapter
iPhone SE



Eyepiece: 60x optical zoom
Focal length equivalent 1740mm



Eyepiece: 60x optical zoom
1.6x Extender: 96x optical zoom
Focal length equivalent 2784mm

Pure Experience



Digiscoped by Paul Hackett
Kowa TSN-884 spotting scope
Kowa TE-11WZ eyepiece
Kowa TSN-iP6 iPhone adapter
iPhone 6



Pure Experience

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