Kowa

TSN-99 PROMINAR

99mm PURE FLUORITE CRYSTAL SERIES



BRIGHT, WIDE, CRYSTAL CLEAR.

TSN-99 PROMINAR

99mm PURE FLUORITE CRYSTAL SERIES



TSN-99A PROMINAR
ANGLED MODEL

TSN-99S PROMINAR
STRAIGHT MODEL

TSN-99 PROMINAR
99mm PURE FLUORITE CRYSTAL SERIES



THE STORY BEHIND TSN-99 PROMINAR.

Our goal was simple - create an optic delivering one of the brightest and widest views of nature.

We created TSN-99 PROMINAR series because our desire to push the boundaries of optical performance is at the forefront of everything we do.

We created TSN-99 PROMINAR series because we wanted to deliver one of the most immersive and detailed views of the natural world.

We created TSN-99 series because we could.



HOW DO YOU IMPROVE ON PERFECTION?

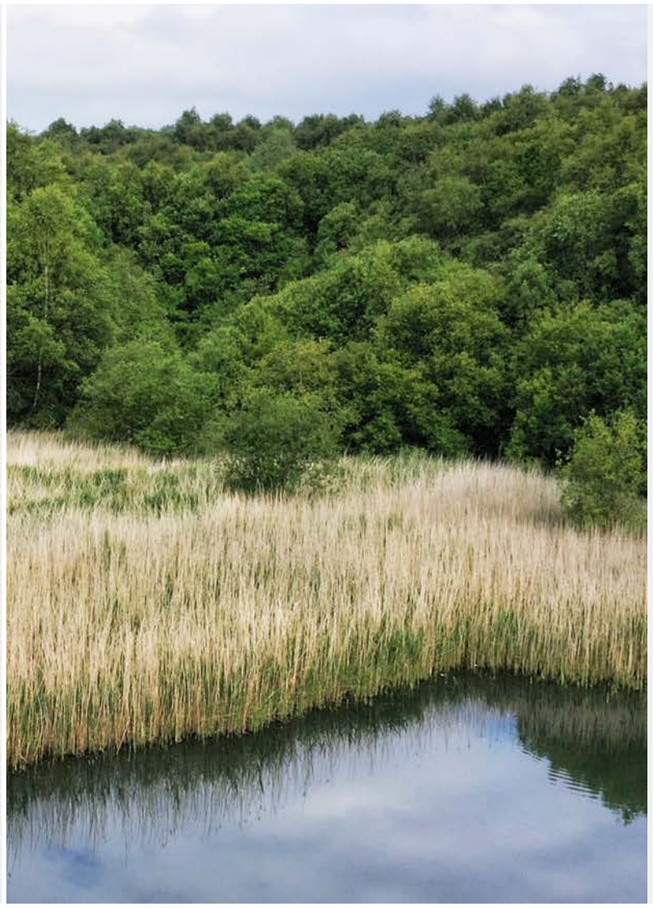


TSN-99 PROMINAR
IS THE CULMINATION
OF KOWA OPTICAL AND
MECHANICAL DESIGN.

Our TSN-880 PROMINAR spotting scope, despite being on the market for almost two decades was and still is to this day the envy of the sporting optics industry.

It's testament to the generations of Japanese optical engineers that have developed Kowa's unique optical design and engineering techniques over many years.

But pioneers don't stand still - they push forward and onwards always trying to improve, it's what we've done for over 60 years and we were not about to stop now.



The TSN-99 PROMINAR Series is the evolution of over six decades of Japanese optical design and technology.

It utilizes the very best from our optical heritage and benefits from features, technology and engineering developed by generations of Kowa optical experts.



WHEN WE CREATED
THE NEW TSN-99 PROMINAR
SERIES, WE HAD NOTHING
TO PROVE.





CRYSTAL CLEAR, LITERALLY.



FOR THOSE WHO
ARRIVE EARLY
AND LEAVE LATE.

The heart of all Kowa PROMINAR flagship optics are our unique pure fluorite crystal lenses and the TSN-99 PROMINAR features ***our largest objective lens ever produced at 99mm*** delivering outstanding low light performance and exquisite detail free from chromatic aberration.





PURE
FLUORITE CRYSTAL

THE RIGHT TO DESCRIBE OUR OPTICS AS CRYSTAL CLEAR.

Crystal clear - a phrase you will often hear loosely used in the world of sporting optics, but take a look through a Kowa TSN-99 PROMINAR spotting scope and that's exactly what you will get, both physically and visually.

A solid piece of pure fluorite crystal is crafted into a perfectly polished and multi-coated lens to deliver the true definition of what is crystal clear and the ultimate viewing experience.

When you take your first look through a Kowa pure fluorite crystal scope you will instantly understand what it means to see crystal clear.

Kowa is the only spotting scope brand to use pure fluorite crystal lenses. Not just glass or even ED / HD glass, experience the next level of performance.

Fluorite Crystal is a natural mineral and it is extremely difficult to work with, creating lengthy manufacturing processes to handle this delicate material. Creating a pure fluorite crystal lens takes specialised knowledge, skill, and costly investment.





THE ULTIMATE VIEWING EXPERIENCE.



MANUFACTURING PERFECTION.

Every lens must pass a series of stringent tolerance tests both by high precision laser machine measuring and human examination, only a perfect crystal lens will make it's way to the heart of the TSN-99 PROMINAR.



Standard optics
Example of chromatic aberration (colour blur).

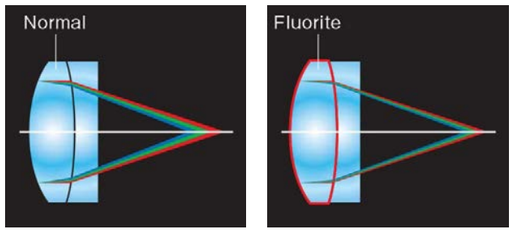
Kowa fluorite crystal
Fluorite lenses producing high contrast and stunning clarity.



For the first time in any of our spotting scopes, a Kowa XD lens with extremely low dispersion characteristics is used for the convex lens of the TSN-99 PROMINAR. The concave lens paired with the fluorite crystal lens is made with special dispersion properties to reduce chromatic aberration even further. This special combination virtually eliminates chromatic aberration even at high magnification. It redefines the standards of colour brilliance. This technology is the result of many years of Kowa optical design.

One of the major causes of deterioration of viewing quality in optics is chromatic aberration (colour blur).

Chromatic aberration occurs due to the dispersion of light and the different wavelengths of light focusing on different positions, resulting in a red or purple fringing around the image and reduced resolution.



PURE
FLUORITE CRYSTAL

For the best optical performance, look for the Kowa Pure fluorite crystal seal - only the Kowa PROMINAR crystal optics family bear this prestigious emblem.

The true definition of what it is to see crystal clear.

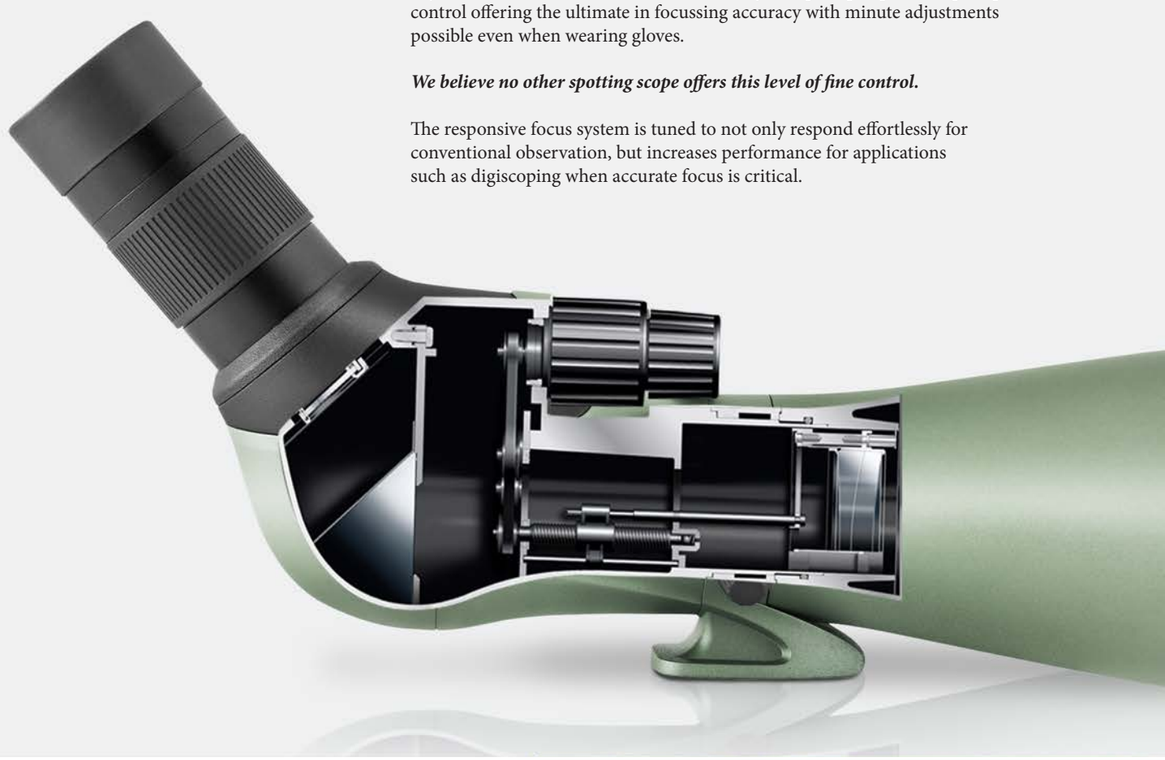
A REFINEMENT OF OPTICAL EXCELLENCE, THE BEST FEATURES ENHANCED.



DUAL FOCUS

The dual focus system is one of the defining features of our flagship spotting scopes, highly engineered to give ultimate control, the TSN-99 PROMINAR is no exception, the optic is a dream to use out in the field.





The dual focus mechanism is the gateway to controlling the image between your eye and the scope. Exquisite engineering is refined to make operation flawless. ***Quick focus*** allows for fast action to bring your subject in to detail in just a few smooth revolutions, whilst ***Fine focus*** gives pin-point, finger-tip control offering the ultimate in focussing accuracy with minute adjustments possible even when wearing gloves.

We believe no other spotting scope offers this level of fine control.

The responsive focus system is tuned to not only respond effortlessly for conventional observation, but increases performance for applications such as digiscoping when accurate focus is critical.

WE DIDN'T REINVENT THE WHEEL.

When we developed TSN-99 PROMINAR we had the benefit of experience behind us.
We utilized and enhanced the key features that have made our flagship PROMINAR optics range so popular with nature viewers around the globe.

OPTICAL COATINGS

Kowa optical engineers improved transmission on the spotting scope by squeezing out every last photon of light with newly developed enhancing coating chemicals perfectly suited to a pure fluorite crystal lens. Pushing our unique coatings for both lenses and the prism to the pinnacle of performance.



FOR THOSE THAT ARRIVE EARLY.

FOR THOSE WHO EXPLORE,
SEARCHING FOR HIDDEN SECRETS.

FOR THOSE WHO CREATE,
AND MAKE PRECIOUS MEMORIES,

FOR THOSE MAKING DISCOVERIES,

FOR THOSE THAT TRUST THEIR EYES:

WE MADE TSN-99 PROMINAR FOR YOU.

BUILT TO WEATHER THE STORM.



FULLY WATERPROOF & NITROGEN SEALED.

The scope body is fully sealed to protect from the elements. The rugged structure can tolerate the severest conditions and provides confidence and a sense of security.

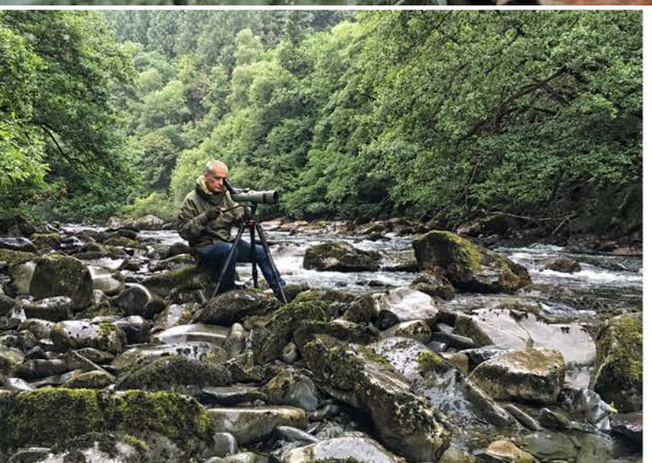


Under the beautiful shell of TSN-99 PROMINAR, a super strong magnesium alloy chassis is utilized, this lightweight material is created using a sophisticated moulding process called thixotrophic moulding, the result:

A material with all the strength benefits of metal whilst still reaming lightweight.

By employing the use of a 100% magnesium alloy structure, the TSN-99 PROMINAR series spotting scope is one of the most compact and lightweight in its class of large objective spotting scopes making it more portable than many other models.





The TSN-99 PROMINAR series is built to last a life time - use it with absolute confidence even in the harshest of environments.

Your reliable, life-long partner in any excursion to the great outdoors.

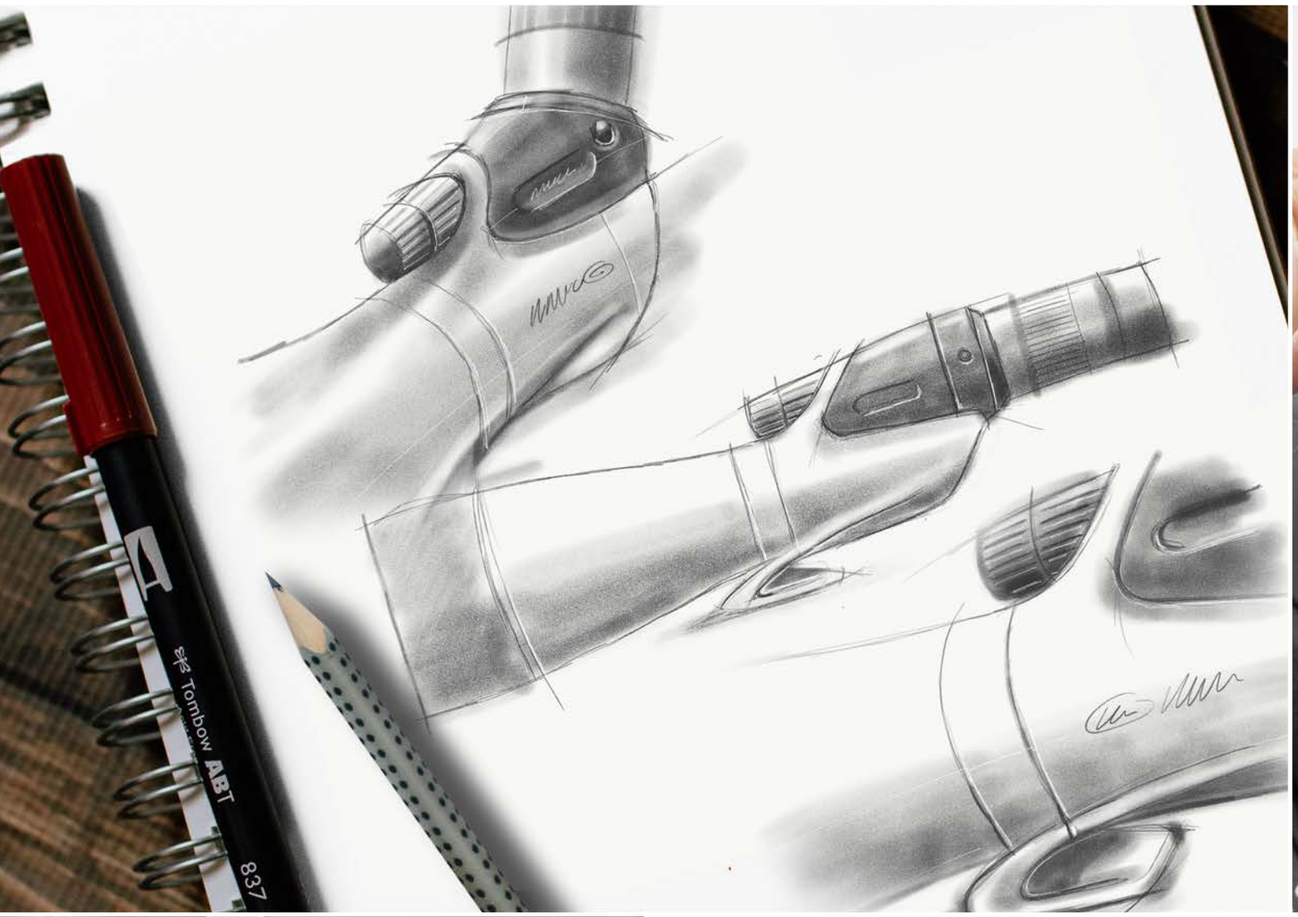
KR COATING.

The objective lens has further protection from the elements with Kowa's unique KR coating which actively repels dirt, moisture and dust from building on the surface.



FORM & FUNCTION.

LOOKS AS GOOD AS IT PERFORMS.







There is no mistaking a Kowa spotting scope, the shape and styling is iconic.

The new TSN-99 PROMINAR starts with the classic Kowa green body and takes it to new levels of elegance with contoured shaping and lines.

The TSN-PROMINAR looks like no other scope, a statement of style and sophistication with bold details.

But looks aren't everything, every slender curve has been considered at the design stage and serves a purpose with comfort and ease of operation at the forefront. Smooth ergonomics combined with high end engineering delivers a scope that is easy to use out in the field for long periods of time.

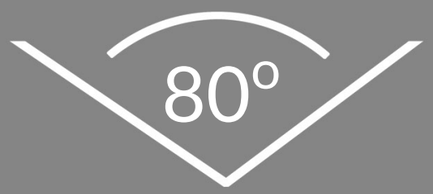
TSN-99 PROMINAR

99mm PURE FLUORITE CRYSTAL SERIES

A NEW LEGEND IS BORN.



CREATING ONE OF THE FINEST SPOTTING SCOPES ON THE PLANET JUST WASN'T ENOUGH.



EXTREME WIDE ANGLE

SEE MORE.

Immerse yourself into the scene with a magnification of 40x and a field of view of up to 39m at 1000m distance. Find a subject quicker with a wider view of your surroundings.



INTRODUCING THE

TE-80XW

EXTREME WIDE EYEPIECE

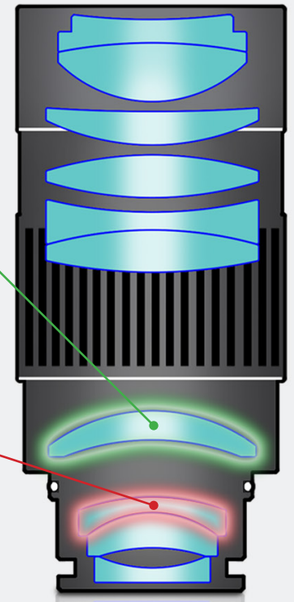


Field flattener lens

The optical design incorporates a field flattener lens maintaining a flat resolution throughout the entire 80 degree field of view.

XD lens

A Kowa XD lens is utilized to minimize chromatic aberration.



Both the field flattener and XD lens combine to produce a view that is completely uniform and ultra sharp across the entire image.



REDEFINING WHAT IT IS TO VIEW NATURE.

A true optical innovation. Kowa engineers have developed one of the most immersive visual experiences you can expect to see in a sporting optic device.

Featuring an advanced optical design, the view through Kowa TE-80XW can only be described as breath-taking.

We created an eyepiece with one of the widest field of views, an incredible 80 degrees.

FULLY PROTECTED.

The Kowa TE-80XW is 100% waterproof and sealed to protect against the elements.

Kowa's unique KR coating is applied to the lens with enhanced protection against dirt, moisture and dust.



DIGISCOPING GAMECHANGER.

TE-80XW
EXTREME WIDE EYEPIECE

WIDE, BRIGHT & EXTRA POWERFUL.

SYSTEM

Experience the best of both worlds with an eyepiece designed for optimum viewing with the human eye as well as digital cameras/smartphones for digiscoping.

Not only does the eyepiece offer the widest field of view for any spotting scope delivering one of the most engaging, true to life and comfortable views on the eye, now you can experience a new level of creativity when you attach a smartphone or digital camera with zero vignetting giving you ultimate control of your image.



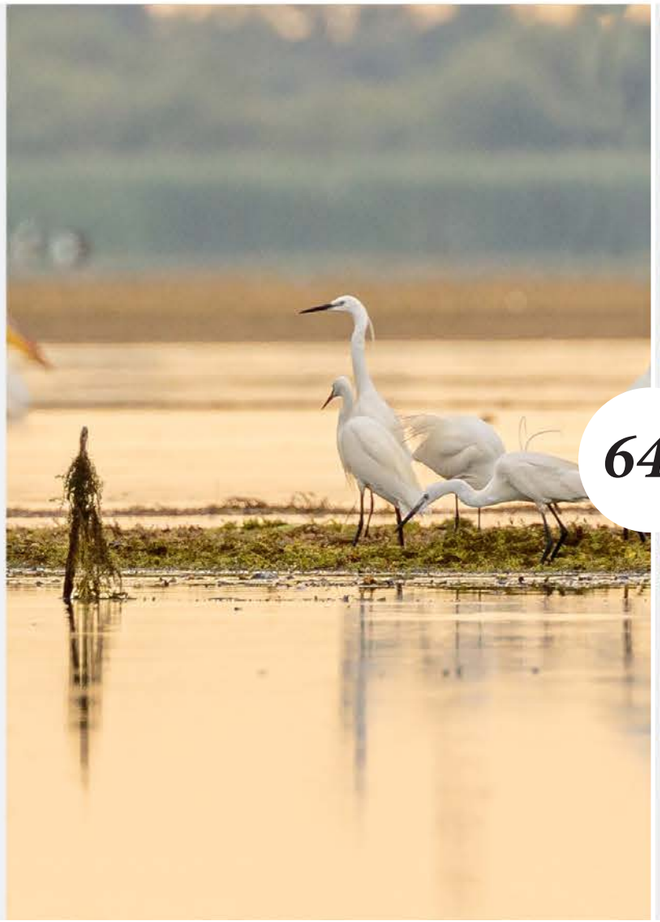
Example of vignetting effect when attaching most smartphones to a spotting scope

Vignetting with standard eyepiece

Zero vignetting with Kowa TE-80XW

As smartphone digiscoping popularity ever increases we decided to create an eyepiece to take your digiscoping to the next level. ***No more cropping or digitally zooming*** and degrading image quality. The TE-80XW gives you total creative freedom ***completely eliminating vignetting*** and free from chromatic aberration.

Now you can decide how to compose your image.



64x

The eyepiece is 100% compatible with ***Kowa System*** accessories.

For long range applications and an extra powerful view that still remains wide angle and bright, simply combine the eyepiece with the Kowa TSN-EX16 1.6x extender and enjoy ***64x magnification.***



The flexibility and cross compatibility that ***Kowa System*** offers means you can add our range of smartphone and digital camera adapters whilst still using the 1.6x extender for even greater telephoto reach.



THE COMBINATION OF TSN-EX16 & TE-80XW DELIVERS ONE OF THE MOST POWERFUL, WIDE AND BRIGHTEST VIEWS OF THE NATURAL WORLD.



SUN SHADE

A smooth twist sunshade helps to eliminate glare from the sun and also reduces exposure of the objective lens to elements such as moisture, grit and sand.



EYEPIECE RELEASE BUTTON

To release the eyepiece smoothly, we re-engineered our quick release button, further enhancing the operation to allow quick eyepiece or adapter changes without compromising on a secure connection to the scope body.

DUAL TRIPOD MOUNT

The tripod mount features dual standard tripod threads for ultimate compatibility to third party tripod heads.

The tripod mount has a removable screw that allows the spotting scope to be attached to either 1/4 and 3/8 inch tripod heads. With the tripod screw inserted the mount can be used on 1/4 inch tripods. Removing the screw allows the scope to be attached to 3/8 inch tripods.

The orientation of the scope can be smoothly changed with the release of a locking button if you require to alter the viewing position.



ACCESSORY COLLAR

An easy accessible collar on the eyepiece mount allows for quick connection of current KOWA SYSTEM accessories including adapters for digiscoping and 1.6x extender.

This accessory collar is the gateway to expand the scope to new levels of functionality.





FILTER THREAD

A 105mm filter thread is situated on the scope body allowing for a protective or UV filter to be added offering enhanced protection.

The sunshade can still be used even with a filter added.



AIMING SIGHT

The lens hood features a newly designed built in aiming sight as a visual aid to assist in finding a subject more rapidly.

ULTIMATE VERSATILITY.

SYSTEM

The accessory collar and bayonet mount of the TSN-99 PROMINAR is 100% compatible with our KOWA SYSTEM accessory range giving you access to interchangeable eyepieces and accessories, creating a truly flexible optical tool for many applications.







EYEPIECES

Three eyepieces are available for the TSN-99 PROMINAR series:
TE-11WZ II 30-70x wide zoom
TE-80XW 40x Extreme wide
TE-20H 30x Long eye relief



EXTENDER

THE ***TSN-EX16*** Extender increases the magnification of the attached eyepiece by 1.6x for long range applications up to 112x optical zoom.



DIGISCOPING

A range of easy to use digiscoping adapters for many smartphone models, DSLRs and compact system cameras are available.



PROTECTION

Protect both the objective lens and eyepiece with our protection kit including ***TSN-105FT*** filter coated with KR dirt/dust repelling technology and our TSN-***CV88A*** eyepiece protection cap.



STAY-ON-CASE

This case is not only a statement of style, the unique high quality neoprene modular design offers incredible protection for your scope.



ASTRONOMY

Quickly fit and use 1,25” astronomical eyepieces on the Kowa TSN-99 body with **TSN-AS 1.25** astro adapters.

CAPTURE THE ACTION.

DIGISCOPING.

ATTACH A SMARTPHONE OR DSLR TO TSN-99 PROMINAR.

The TSN-99 PROMINAR is a digiscopers dream with a large 99mm pure fluorite crystal objective lens gathering maximum light capacity and eliminating colour blur. Enjoy super long range telephoto photography, allowing you to capture the action from a distance whilst not disturbing the wildlife all without having to carry heavy additional photographic equipment - the results can be truly outstanding.





SMARTPHONE ADAPTERS.

Capture stunning, highly magnified images and video of the natural world on your smartphone.

Kowa smartphone adapters are tough, durable and streamlined with no set-up time, simply click the phone in to the adapter, add a compatible eyepiece ring (sold separately) and push it on to the scope and you are ready to go.





TSN-PA7X

An extremely easy to use digiscoping adapter for connection to full frame/APSC/MFT camera bodies*. It can quickly be removed to switch between eye observation and digiscoping and allows shooting in landscape or portrait format.

Compatible Eyepieces
TE-11WZ II 30-70x wide zoom
TE-80XW 40x Extreme wide

*Requires additional T2 adapter depending on camera model.



TSN-DA10

Versatile adapter that can be used with full frame/APSC/MFT camera bodies with or without a lens attached** . Also compatible with Kowa smartphone adapters for a fixed connection.**

Compatible Eyepieces
TE-11WZ 30-70x wide zoom
TE-80XW 40x Extreme wide

** Requires additional TSN-AR adapter ring

Kowa offers the widest range of smartphone adapters from any premium sport optics brand -

Our range of smartphone adapters continues to expand with support for a large number of smartphones including the very latest models.

Please check our website for the very latest adapters and eyepiece rings.

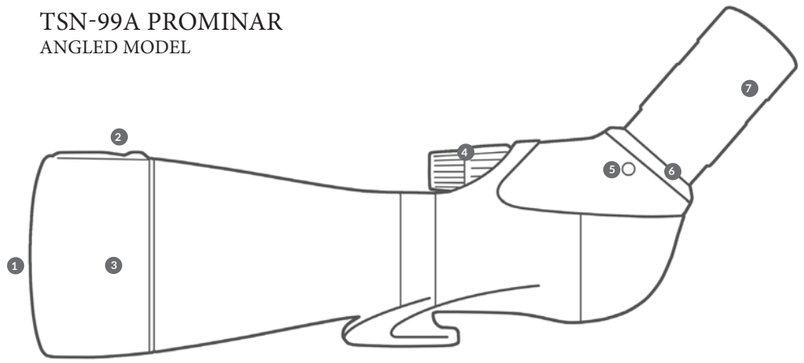




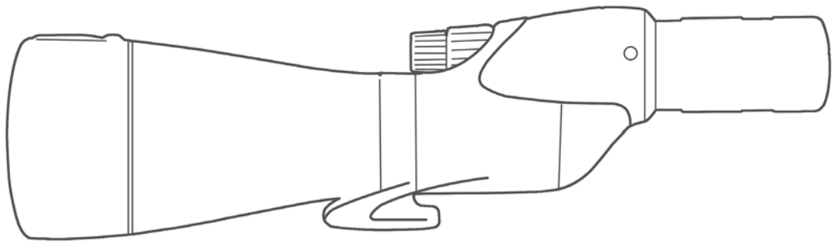
KOWA TSN-99 PROMINAR

99mm PURE FLUORITE CRYSTAL SERIES

TSN-99A PROMINAR
ANGLED MODEL



TSN-99S PROMINAR
STRAIGHT MODEL



1. 99mm objective lens
2. Aiming site
3. Sun shade
4. Dual focus (quick/fine)
5. Eyepiece release button
6. Accessory collar
7. Eyepiece (sold separately)

SPECIFICATIONS

TSN-99 PROMINAR
99MM PURE FLUORITE CRYSTAL SPOTTING SCOPE

Objective Lens Effective Diameter:	99mm
Objective Lens Material:	Fluorite crystal and XD lens
Minimum Focusing Distance:	6m
Length 99A / 99S:	378mm / 364mm
Weight 99A / 99S:	1810g / 1835g
Filter thread:	105mm

TE-80XW
40X EXTREME WIDE ANGLE EYEPIECE

Magnification:	40x
Subjective field of view (degree):	80
Field of view at 1000m:	39m (1000yds /117ft)
Exit Pupil Diameter:	2.5
Relative Brightness:	6.3
Twilight Factor:	59.3
Eye Relief (mm):	17

Eyepiece specification when attached to Kowa TS-99 series. Specification changes when attached to other spotting scope bodies.

TE-11WZ II
30-70X ZOOM WIDE ANGLE EYEPIECE

Magnification:	30-70x
Subjective field of view (degree):	59-70
Field of view at 1000m:	35-20m (1000yds /105-60ft)
Exit Pupil Diameter:	3.3-1.4
Relative Brightness:	10.9-2.0
Twilight Factor:	51.4-78.6
Eye Relief (mm):	17

Eyepiece specification when attached to Kowa TS-99 series. Specification changes when attached to other spotting scope bodies.

TSN-99 PROMINAR

99mm PURE FLUORITE CRYSTAL SERIES



#kowaoptics #kowascoping

Audiopro s.r.o.
+420 257 011 177 • info@audiopro.cz • www.audiopro.cz
Člen Asociace obranného a bezpečnostního průmyslu ČR AOBP

www.kowa-prominar.com