

Swarovski Optik has endeavoured to ensure that the contents of this catalogue are as accurate and up-to-date as possible at the time of going to press. As expressed by our philosophy “constantly improving what is good”, Swarovski Optik does, however, reserve the right to make alterations at any time.

Hunting



For further information, please contact:

SWAROVSKI OPTIK KG

6067 Absam · Austria · Tel. +43/52 23 511-0 · Fax +43/52 23 41 860 · info@swarovskioptik.at · www.swarovskioptik.com

10/2005



Wherever you are with
Swarovski Optik,
the natural world becomes
ever more amazing.

If you look closely at some of the magnificent nature photographs in this catalogue,
you will see that Swarovski Optik are constantly achieving some rather surprising discoveries.

Nature as a constant companion:

The unique Tyrolean mountain scenery was, for company founder Daniel Swarovski, the main motive for moving to Wattens, just outside Innsbruck, more than 100 years ago. As a visionary and someone who was way ahead of his time, he recognised the inspirational force of the beautiful Alpine landscape.

During the past 100 years there have been many changes. A small business has become a successful company. But a love of nature continues to inspire us towards new visions and innovative ideas.

Nowadays, with all its products, Swarovski Optik sets global standards in design, functionality and ergonomics, using cutting-edge technology to achieve the highest levels of quality. That is why, at every production stage, every single instrument is checked for 100% quality before shipping. But that is not enough. True to Daniel Swarovski's principle of "constantly improving what is good", we are continually striving for perfection.

Constantly improving what is good, however, is only one part of our overall company philosophy. Just as important for us is maintaining what is perfect. And what is more perfect than nature? For this reason, Swarovski Optik has been supporting various nature conservation initiatives around the globe for many years. The Dalmatian Pelican Project at Lake Srebarna, Bulgaria; the Black Rhino Project in Namibia, and the Humming Bird Project in Columbia are particularly good examples of how much can be achieved through the appropriate use of resources.




Perceive with the eyes,
experience with Swarovski Optik.

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Swarovski Optik takes nature
closer to people.

Hunting is not just a marvellous way to enjoy the beauty of nature. It is much more the true cultural heritage of human history and a fascinating way to find oneself. Those unforgettable moments of observation, identification and then that magnificent feeling of being at one with nature, open a hunter's eyes to what is really important:

a respect and responsibility towards creation and its creatures. It is our wish to dramatically enhance this close relationship with nature through our products.

A photograph of a dead, bleached tree trunk in a dry, grassy field under a clear blue sky. The tree trunk is light-colored and shows signs of decay, with some branches still attached. The background is a vast, open landscape with dry grass and a clear sky.

Caring for the environment

We need a healthy,
natural world to live in.



And nature needs our protection to survive.

The Swarovski Optik nature conservation programme has for years been dedicated to maintaining valuable nature reserves and endangered species.

The black rhino project in Namibia.

The black rhino was almost completely wiped out by poachers. Despite a number of initiatives designed to save it, the black rhino is still in serious danger. Current estimates put the number of the species worldwide at just 2,000.

As the last of the black rhino in Namibia live outside national parks, Swarovski Optik is helping the authorities there with the implementation of a

national protection and monitoring programme.

The game wardens were supplied with the very latest in night vision instruments, telescopes and binoculars. Furthermore, Swarovski Optik also provided valuable support with the provision of watering places.

All these measures have had more than the desired effect. As well as the black rhino, other endangered species in Namibia have benefited from our involvement. One example of this is the mountain zebra, which is also sadly a popular target for poachers. In this case, too, we were able to make our contribution, so that in the future, the resident game stocks will no longer be decimated by

poachers, but rather managed through sustainable, regulated culling.

Pelican project in the Srebarna Biosphere Reserve, Bulgaria.

For a long time, the Srebarna Biosphere Reserve in Bulgaria has been one of the last reserves for the Dalmatian pelican, which is under threat worldwide. Because of the shortage of suitable nesting places, during the 1990s, the number of these birds in the Srebarna colony fell dramatically. Swarovski Optik has been involved in Srebarna since 1998, and working in conjunction with the Le Balkan Foundation, artificial nesting platforms were built. Within a few years,

these had helped to stabilise the population ensuring the continuation of the Dalmatian pelican in Srebarna.

Over the centuries, intervention by man has resulted in the destruction of many valuable elements in our natural heritage. So it is high time we did our best to reverse this trend. For only when man's interventions start to have constructive, instead of destructive, effects, will nature be preserved for future generations in all its beauty. Swarovski Optik would like to thank its customers who, as good hunters, make their contribution to nature conservation.

Recognise the importance of investing in precision, with Swarovski Optik.

Nature bestows many special moments. For you to enjoy these to the full, Swarovski Optik guarantees maximum quality, optimum functionality and innovative technology with every product.

The Swarovski Optik quality standards:

- Razor-sharp and high-contrast images right up to the image periphery with total colour fidelity from the exclusive use of ultra-precise lenses and prisms.
- 100% functional reliability from -25° to +55°C (-4° to 131° F).
- 100% image and material inspection on every single instrument.
- A quality management system, which embraces the whole company, and includes high grade measurement technology and control processes.
- Personal responsibility of employees.
- All products are precision engineered exclusively in Austria.

The Swarovski Optik quality management system was certified in 1999 in line with the ISO - 9001 / 2000 international norm. During the following year, the company was awarded ISO 14001 environmental management certification.

Our own patents for innovative technology:

- SWAROBRIGHT coating technology for colour fidelity across the whole light spectrum. Swarovski Optik is the first manufacturer in the world to use this technology in the serial production of binoculars, thereby confirming Swarovski Optik's role at the vanguard of innovation. This feature also raises the quality level among the competition.

- Patented SWAROTOP or SWARODUR coating for bright and contrast-rich images: Reduces prism surface reflection, normally between 4 and 6%, to less than 0.2%. Please note: This coating is applied to all lenses and prisms on Swarovski Optik products.
- A phase-corrected coating (P-coating) on all optical instruments with roof prisms for contrast-rich images.
- EL roof-prism binocular with wrap-around grip.
- Tripod adapter with quick-lock for binoculars.
- SR (Swarovski Optik Rail) Rifle Scope Mounting System for P-series Rifle Scopes: High accuracy and unique stability, which is preserved particularly when using high calibre rifles. Quick mounting, no more drilling necessary.
- Swarovski Optik coil spring system for PF and PV rifle scopes: Absolute accuracy – shot after shot and with every calibre.
- Patented zero-point adjustment for PF, PV and AV rifle scopes.
- Illuminated reticle for PF-N and PV-N rifle scopes.
- PF, PV and AV rifle scopes are watertight even with screw cap removed (except turrets for illuminated reticles).
- HIGH GRID technology for moving-target rifle scopes with illuminated reticle.
- **NEW!** BE 4 Digital for PV-I and PVI-2 HIGH GRID Rifle Scopes: Increased brightness and innovative functions.



The only valid yardstick for optimum quality: Your Satisfaction!

Swarovski Optik is committed to manufacturing high precision optical products that will be a reliable companion, allowing you to enjoy the natural world in all its splendour. But our commitment does not end there. Our ultimate aim is to offer unrivalled customer satisfaction to all owners of Swarovski Optik instruments.

Our Customer Service is second to none.

Swarovski Optik's high and strictly monitored quality standards ensure that you can use your binocular, telescope or riflescope in complete confidence and with the knowledge that your instrument is covered by our comprehensive warranty.

But what if the instrument develops a fault or is damaged?

Our commitment to complete customer satisfaction ensures that any problem will be dealt with in the quickest possible time and that our service and repair work matches our high quality standards of production.

- Swarovski Optik guarantees availability of all spare parts for all products for the duration of the warranty period.
- All repair and service work is carried out at the factory by our dedicated team of highly experienced technicians.



Technology opens our eyes
to the beauty of nature.

Whether you are out stalking or in the hide, it is important to be able to react spontaneously at all times. That is why hunters and observers of nature consider binoculars by Swarovski Optik to be basic equipment. Their optical brightness, together with optimum ergonomic design, ensure perfect encounters with nature every time.

All models from our very comprehensive range of binoculars can be individually singled out for their high quality features. Enabling us to guarantee that there will be a Swarovski Optik binocular to meet your personal requirements to perfection.

EL binoculars: Enjoy the highest level of perception.



EL 8.5x42

Unique, optical performance – for impressive, colour-faithful observation.

Ergonomic design – for unrestricted user comfort.



EL 8.5x42

More elegant, with ergonomic features.
And now even more versatile:
the new SLC from Swarovski Optik.

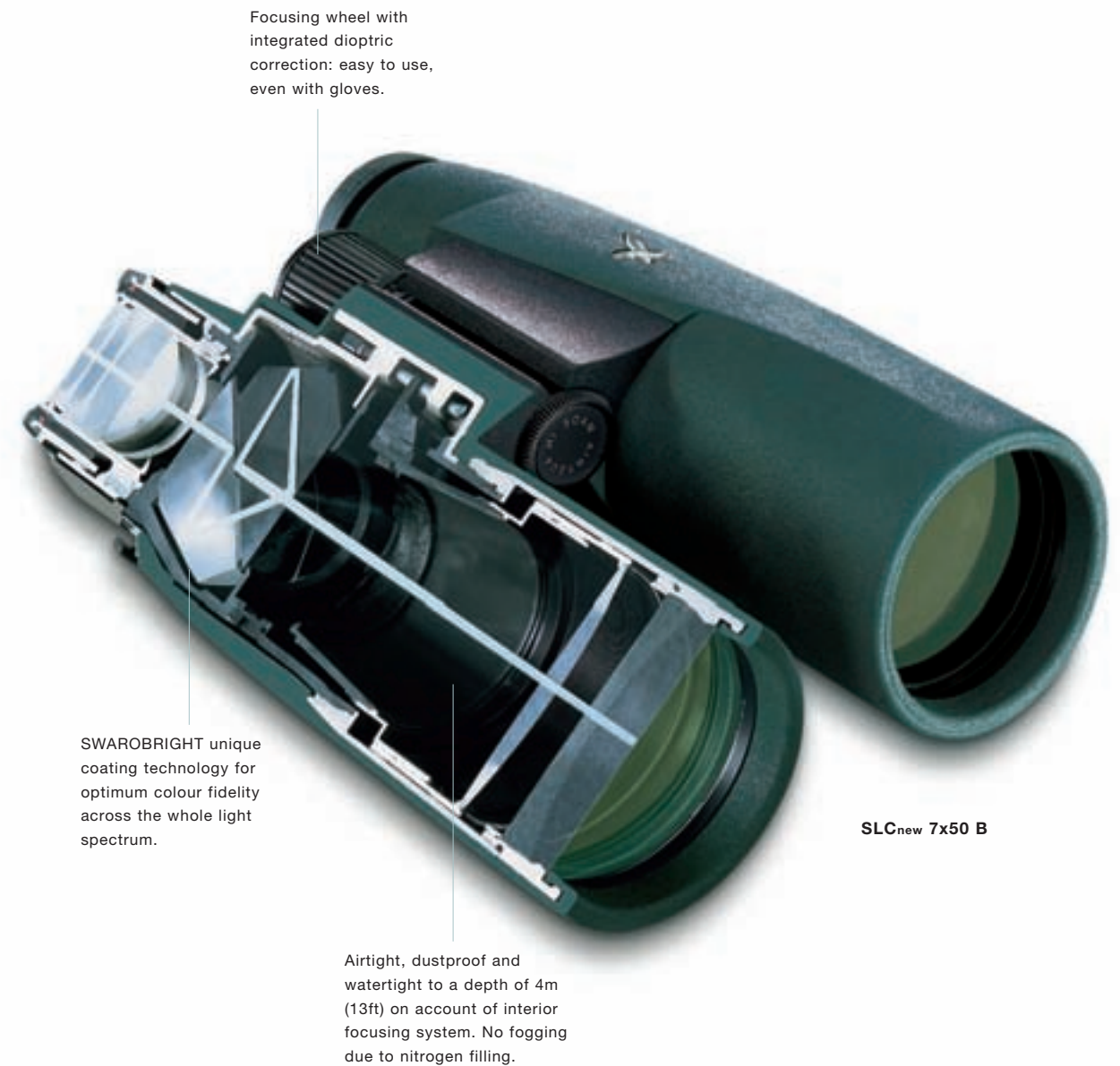


SLCnew 7x42 B

NEW!

Non-slip, easy to handle rubber armoured – for a more comfortable observation experience.

Better handling and with tried and tested technology – for sharper images and with better colour fidelity.



Focusing wheel with integrated dioptic correction: easy to use, even with gloves.

SWAROBRIGHT unique coating technology for optimum colour fidelity across the whole light spectrum.

Airtight, dustproof and watertight to a depth of 4m (13ft) on account of interior focusing system. No fogging due to nitrogen filling.

SLCnew 7x50 B

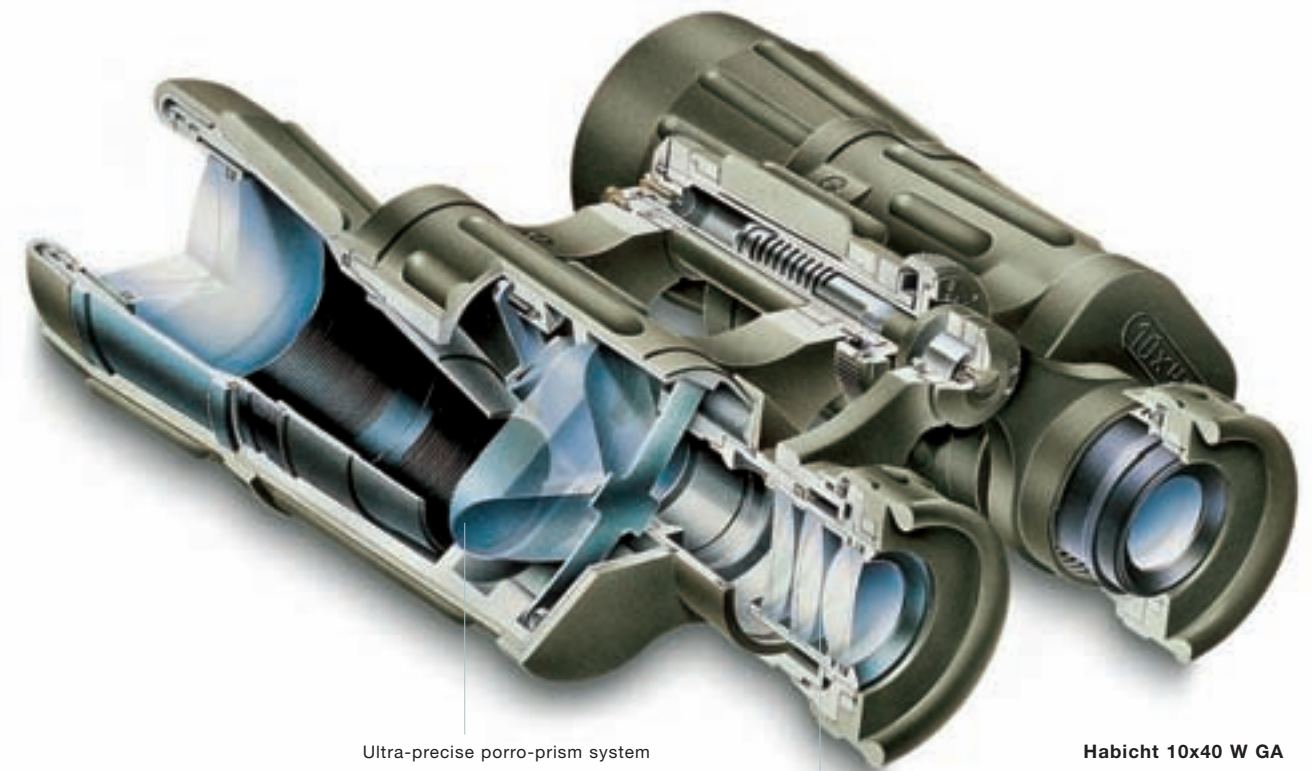
Habicht binoculars:
The traditional way to observe nature.



Habicht 7x42

Classic optical system – tried and tested and continuously developed for generations.

Robust yet light construction – particularly suitable for hunting in high mountain regions.



Habicht 10x40 W GA

Ultra-precise porro-prism system makes for a short, easy-to-handle design and contrast-rich, three-dimensional images.

Large field of view through a 6-lens wide-angle eyepiece on the 8x30 and 10x40.

Pocket binoculars:
True greatness is not related to size.



Pocket 8x20 B

Complex optical system for compact binoculars –
whether in the concert hall, in a natural environment
or simply on sightseeing trips.

Handy and flexible – ideal as a spare.

Pocket Bridge:
“The Exclusive Model”



Pocket Bridge 8x20 B

Clear simple design – combines perfect observation with style
and elegance.

We all like to identify
what is really special.



A Swarovski Optik telescope will ensure you can enjoy the beauty and fascination of the natural world from any situation.

Swarovski Optik telescopes stand out for their excellent close-up and long-distance focusing, good light

transmission and high magnification levels allowing the smallest details to be appreciated at any distance, and, as with all Swarovski Optik products ergonomic design and unique functionality guarantee totally unspoilt observation work.

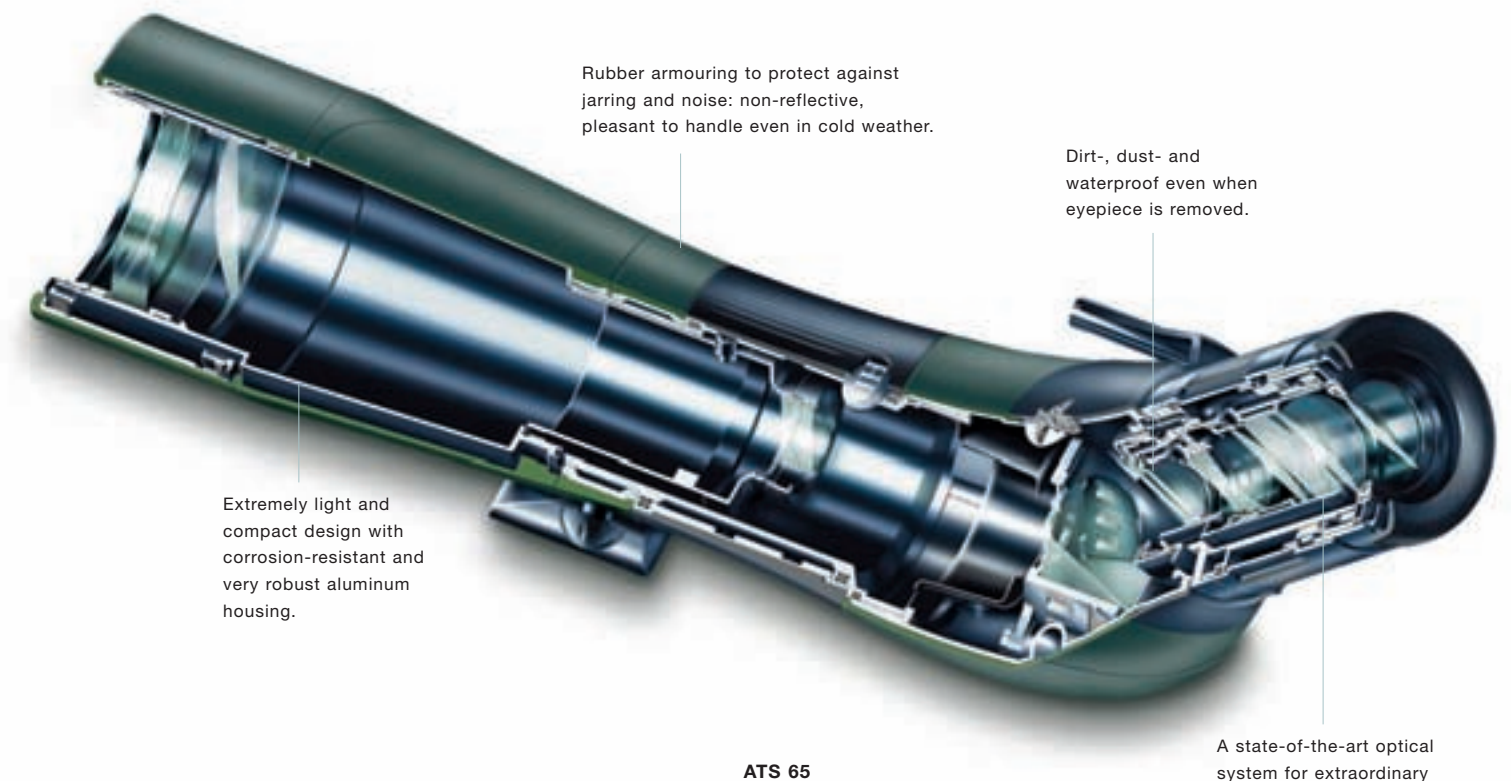
ATS/STS 80 and 65 observation telescopes:
It's so easy to move
from seeing to experiencing.



Excellent optical performance – for unique
observation of detail with various magnification levels.

Impressively light and ergonomic – for unhindered
and easy-grip handling in all conditions.

HD (High Definition) Versions for best picture quality.



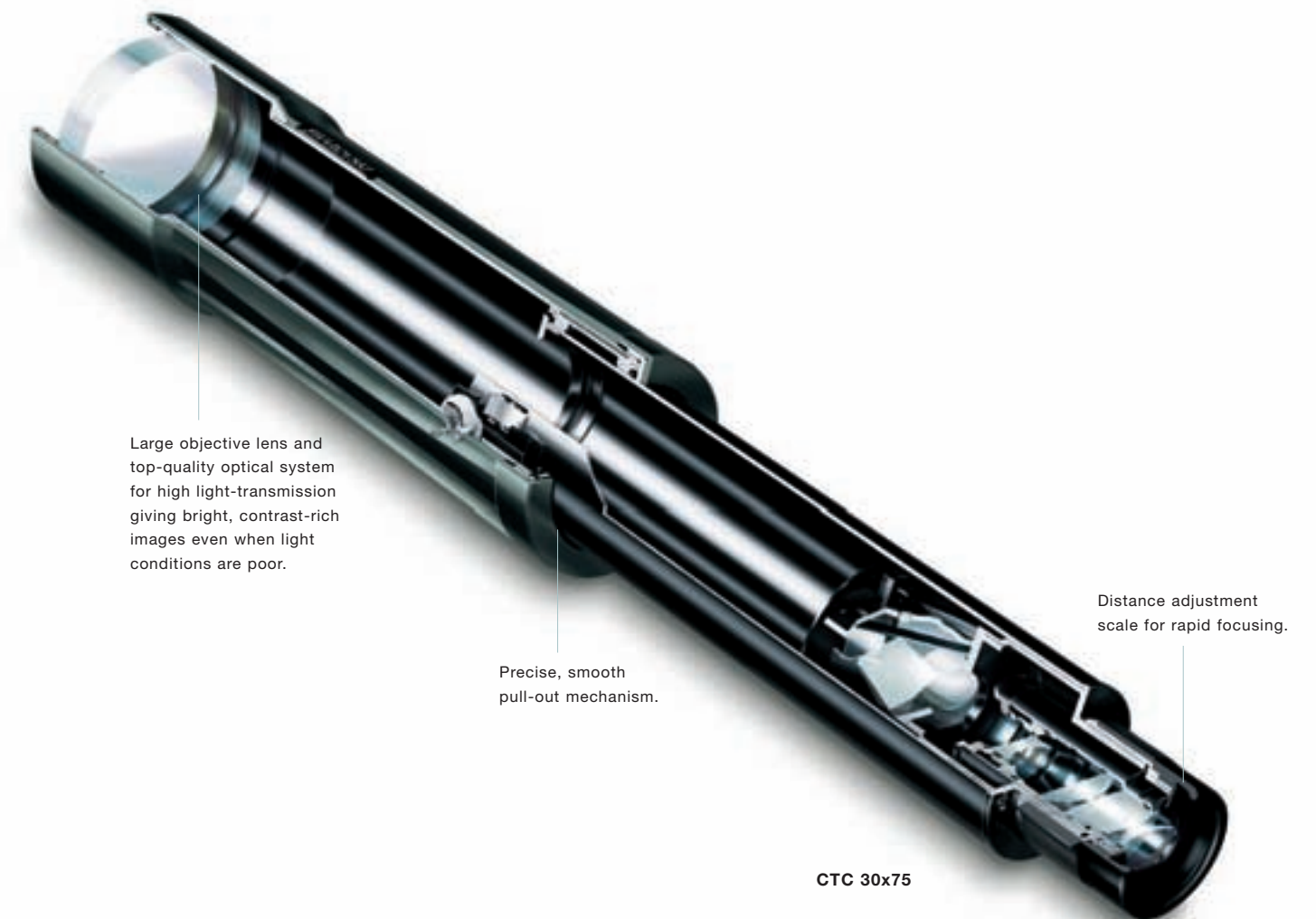
ATS 65

Extendable telescopes CTS 85 and CTC 30x75:
Compact, with high performance –
always and everywhere.



High light-transmission optical system –
for clear and bright images from all angles.

Compact and efficient – for rapid target
identification and comfortable surveying.



We only have one target
for our eyes: absolute precision.

When training to be a hunter, considerable attention is paid to the correct use of weapons. Every single shot needs careful consideration and first and foremost must be correctly aimed and fired. Crucial when it comes to firing accuracy is the precision of the rifle scope – and that is the case with every single shot, regardless of the calibre. The patented Swarovski Optik coil spring system ensures absolute shock resistance on all Swarovski

Optik rifle scopes. The recoil forces are absorbed shot after shot and the whole unit returned to its original position. And the innovative SR mounting system means absolute recoil steadiness with every calibre and mounting without the need to drill holes.

Habicht PVI-2 HIGH GRID and BE 4 Digital:
Ultra-precision even at maximum magnification.

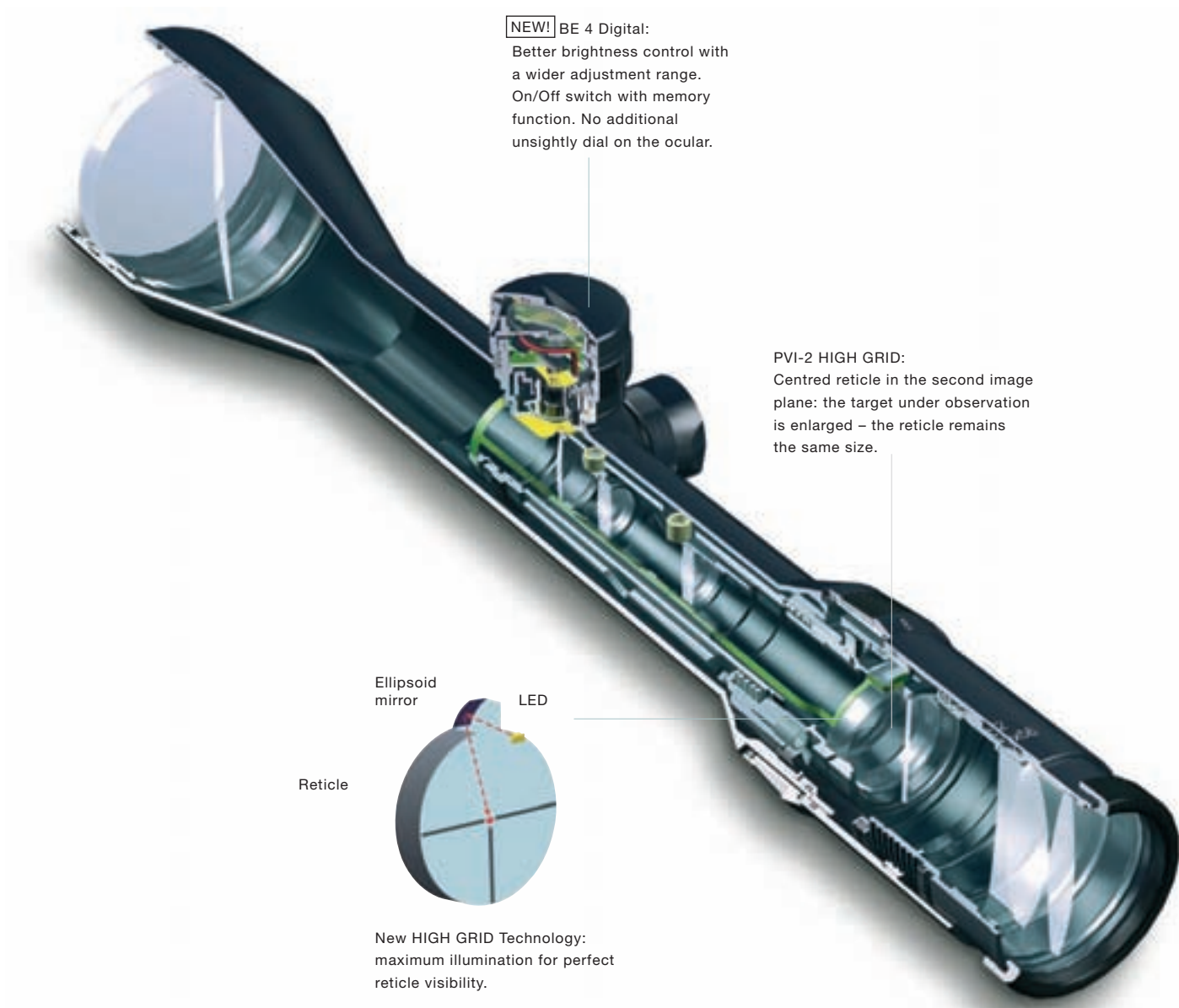


PVI-2 2.5-10x56 HIGH GRID with BE 4 Digital

NEW!

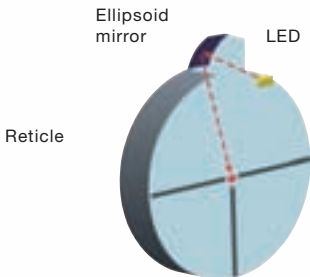
Reticle in the second image plane: the reticle remains the same size – the target under observation is enlarged.

Ultra-bright reticle illumination using the new HIGH GRID technology.

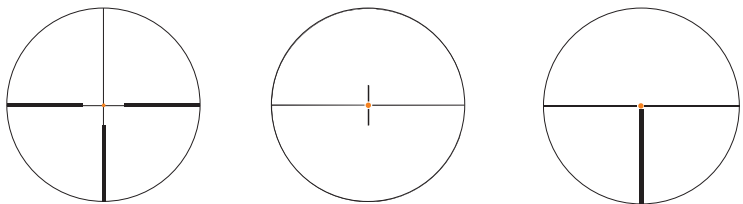


NEW! BE 4 Digital:
Better brightness control with a wider adjustment range. On/Off switch with memory function. No additional unsightly dial on the ocular.

PVI-2 HIGH GRID:
Centred reticle in the second image plane: the target under observation is enlarged – the reticle remains the same size.



New HIGH GRID Technology:
maximum illumination for perfect reticle visibility.



4-I

NEW!

LD

Developed exclusively by Swarovski Optik.

BD

NEW! BD, 4-I and LD Reticle:
Precise shot during daylight and at long distances, even with the illumination unit switched off. Rapid acquisition of smaller targets due to quick elevation positioning on the target body.

Habicht PV-I HIGH GRID and BE 4 Digital:
Always keep your target clearly in view.



PV-I 1.5-6x42 HIGH GRID with BE 4 Digital

Ideal for all types of hunting.

HIGH GRID Technology – for high contrast reticle in daylight .

Centred reticle in the first image plane: the reticle and the target under observation are enlarged.



NEW! BE 4 Digital:
Better brightness control with a wider adjustment range. On/Off switch with memory function. No additional unsightly dial on the ocular.

PV-I HIGH GRID:
Centred reticle in the first image plane: the reticle and the target under observation are enlarged.

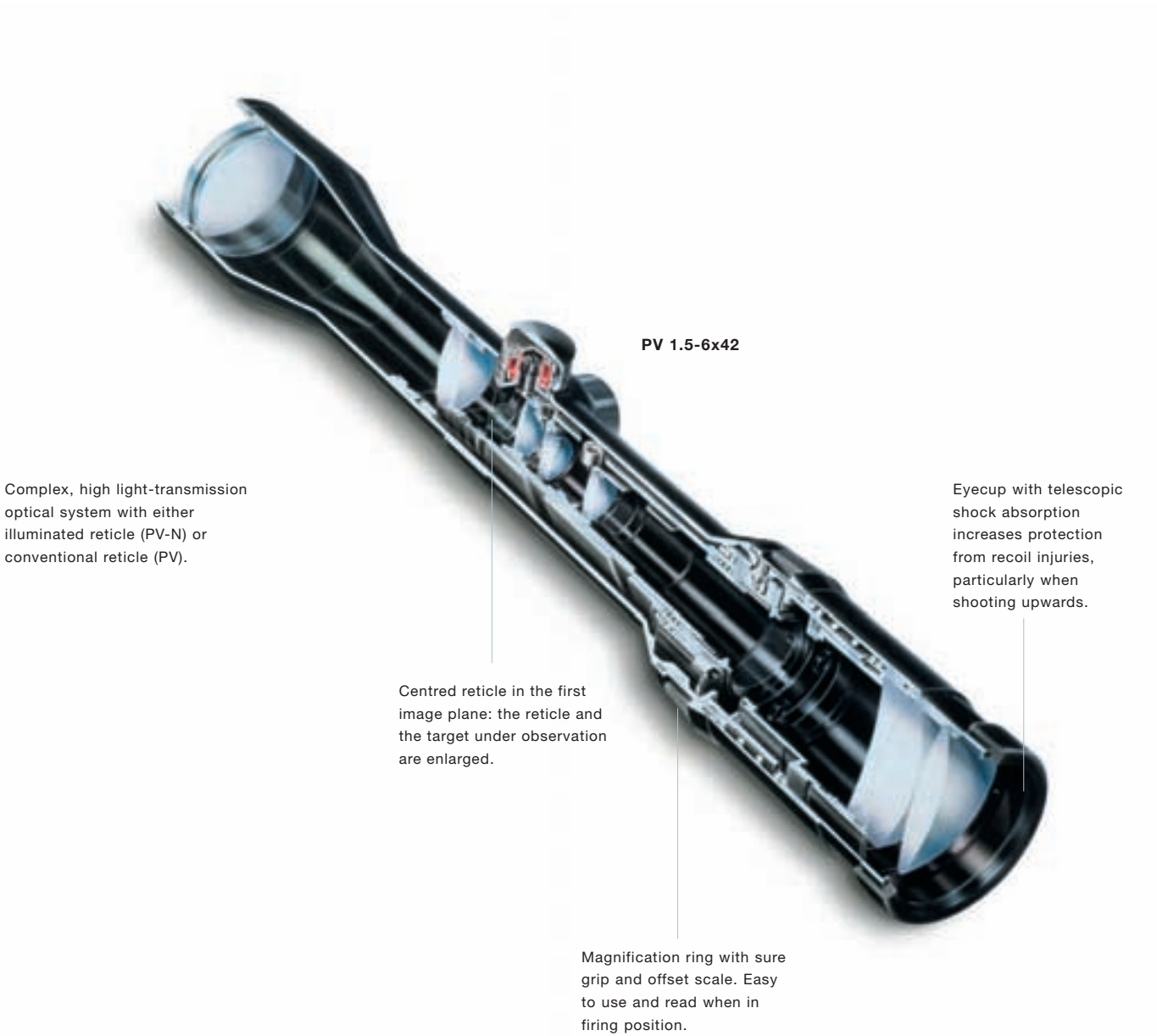
Habicht PV and PV-N rifle scopes:
Only the very latest in technology makes
precision the most natural thing
in the world.



PV 3-12x50

Versatile deployment – highly suitable for the widest variety
of hunting conditions.

High-performance optical system – good light-gathering
qualities and contrast-rich even with illuminated reticle.



PV 1.5-6x42

Magnification ring with sure grip and offset scale. Easy to use and read when in firing position.

Habicht PV-S rifle scopes:
Ultra-precision is what counts
in competitive shooting.



PV-S 6-24x50 P

Parallax correction – for precision shooting from long distances.

Sport turrets – for precise adjustment
at the crucial moment.

Swarovski Optik Rail SR:
The most innovative type of mounting
for rifle scopes.



Swarovski Optik Rail SR



The unique Swarovski Optik gearing system gives
absolute recoil steadiness.

Highly secure mounting to give recoil steadiness –
even with high calibres.

Innovative mounting rail – for simple, low-profile mounting.

Habicht PF and PF-N rifle scopes:
Only the certainty of hitting
the target is justification for the shot.



PF 8x50

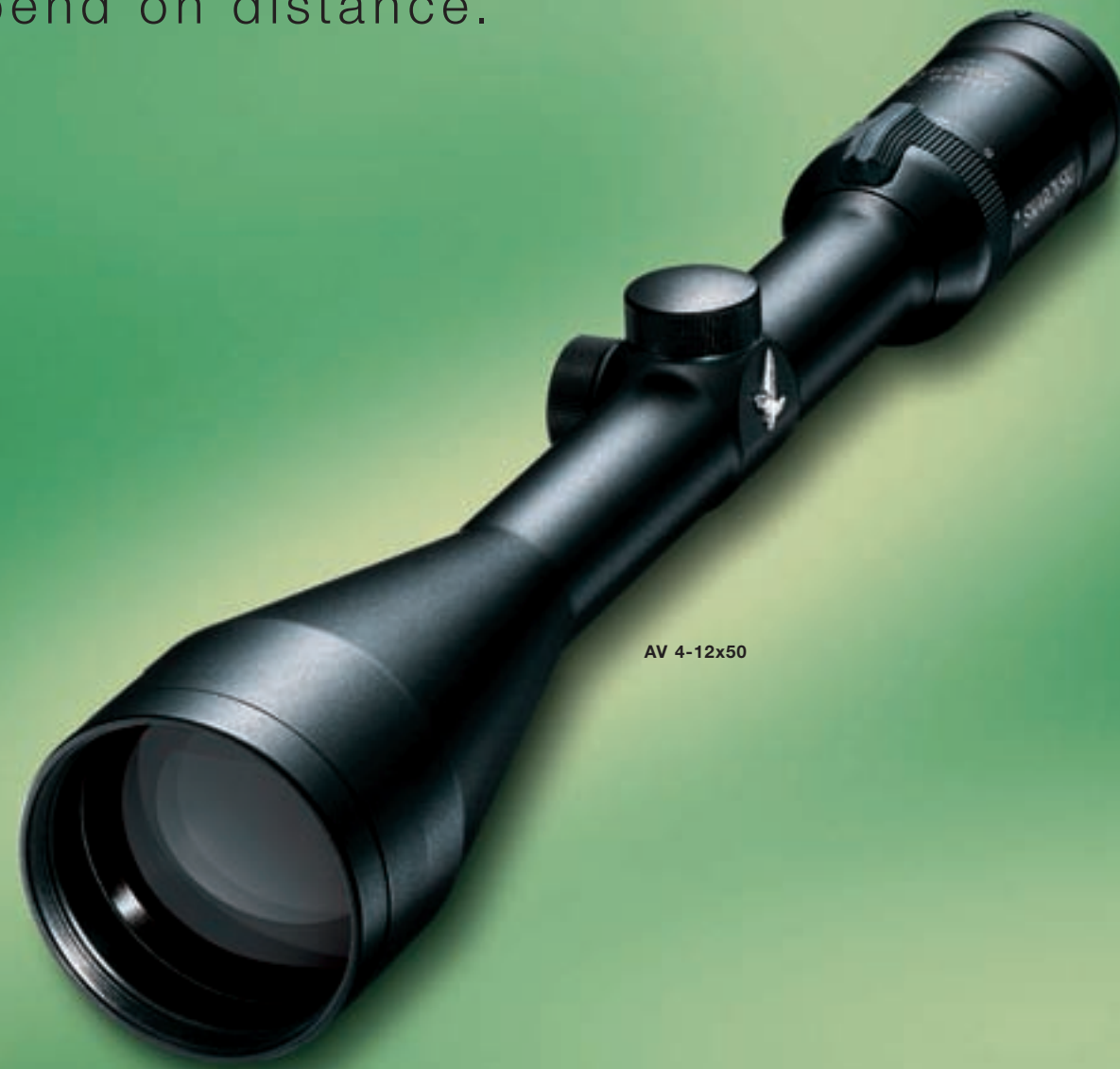
Bright and rich in contrast – ideal for hide shooting and with
illuminated reticle for use at twilight.

Classic, tried and tested design – reliable and shock resistant.



PF 6x42

Habicht AV rifle scopes:
Precision does not
depend on distance.



AV 4-12x50

Reticle in the second image plane – for precise shooting
over long distances.

Very compact construction – ideally suited
for mountain hunting.



Slender construction due to
1" main tube diameter.

AV 4-12x50

Slender eyepiece for compact
mounting with 90 mm (3.5 in)
eye relief to protect against
recoil injuries, particularly when
shooting upwards.

Centred reticle in the second
image plane for precision shooting
with low target coverage, even at
high magnification.

In detail

From close quarters –
Swarovski Optik
products in detail.

NEW!



EL 10x42 WB



SLCnew 7x42 B



Habicht 7x42



Pocket 8x20 B



EL binoculars

Only nature is more perfect:

With its innovative design, brilliant optical performance, revolutionary functionality and uncompromising ergonomics, the EL binocular set new standards. On account of their handy and even more compact build, the new EL 8x32 and 10x32 binoculars allow additional perspectives for the widest variety of observation situations.

Optical system:

- High contrast, natural colour reproduction under almost all light conditions as a result of a newly designed optical system with optimum light transmission.
- SWAROBRIGHT: unique prism coating – for optimum colour fidelity across the whole light spectrum.
- Wide angle eyepiece for an extremely large field of view (62° and 63° respectively with the EL 42, 62° and 65° with the EL 32).
- An optimised roof prism-system with P-coating.
- 3-part objective lens with high light transmission.
- Dioptric correction system integrated in the focusing wheel.
- Sensational close-up focusing from 2m (7ft) (EL 32) and 2.5m (8ft) (EL 42).

Design:

- Unique functional design with wrap-around grip and narrow housing for simple, rapid handling, even with one hand.
- Low weight and perfect balance.
- Extremely light, but very robust magnesium housing.
- Ergonomic thumb depressions for tireless observation work.
- Pleasant to handle rubber armouring.

- New, shorter drive mechanism for even faster focusing.
- Large, grooved, pull-out focusing wheel for rapid focusing even with gloves and for razor-sharp detail at the all-important moment.
- Torsion-free twin-bridge construction for permanent axis parallelism.
- Airtight, dustproof and watertight to a depth of 4m (13ft) on account of interior focusing system. No fogging due to nitrogen filling.
- Optional feature: special eyecups to prevent entry of ambient light.



Full wide-angle field of view for spectacle wearers: individually adjustable twist-in eyecups made from a non-allergenic material.



Variable protective eyepiece cover to keep out dirt and rain. Adjustable to suit individual eye distance.

EL binoculars

- Supplied with case, lift carrying strap, objective lens covers and an eyepiece cover that adjusts to suit eye distance.
- Accessories available: multi-functional case, floating shoulder strap, Swarovski Optik binocular booster, rubber eyepiece cover (EL 42 only), tripod adapter (EL 42 only), special eyecups to prevent entry of ambient light and bino suspender (see Product Accessories, page 94 ff.).



EL 8x32



EL 10x32



EL 8.5x42



EL 10x42



SLC_{new} binoculars

The universal binoculars for hunting:

The new SLC Binoculars fit so comfortably in your hand, you won't want to put them down again. Experience unique design advantages that give you a completely new observation experience in this category of binoculars ...

Optical system:

- Optimised roof prism system with P-Coating.
- SWAROBRIGHT, SWARODUR and SWAROTOP coatings.
- 3-part objective lens with high light transmission for excellent image quality even when light conditions are poor.
- Integrated dioptric correction system.
- Very good clarity of detail.

Design:

- New ergonomic design around the bridge joint area.
- Improved handling due to optimised weight balance.
- Depressions now on the top side of the binoculars – in addition to the tried and tested thumb depressions.
- Weight savings of up to 50g (1.8oz) (SLC_{new} 56).
- Made of hypoallergenic material: individually adjustable twist-in eyecups that can be removed for cleaning allowing a full field of view for spectacle wearers.
- Double eccentric alignment for permanent axis parallelism.
- Central focusing wheel: smooth mechanism and positive to the touch, even with gloves on.
- Patented centre focus mechanism for rapid focusing.
- Dirt proof, dustproof and waterproof in up to 4m (13ft) depth of water. No fogging due to nitrogen filling.
- Multifunctional: can be used on a tripod as well as with the Swarovski Optik Binocular Booster*.



NEW!
High grade rubber armoring for all SLC_{new} binoculars.



New lift carrying strap:
total comfort around the neck when stalking or hiking. Easily attached to the binoculars. Quick and simple adjustment to the desired length.

SLC_{new} binoculars

- Supplied with case, lift carrying strap, objective lens covers and eyepiece cover that can be adjusted to suit eye distance.
- The SLC_{new} 15x56 WB is supplied with Swarovski Optik tripod adapter.
- The following accessories are also available: tripod adapter*, Swarovski Optik binocular booster*, a multi-functional case, floating shoulder strap, rubber eyepiece cover, special eyecups to prevent entry of ambient light and bino suspender (see Product Accessories, page 94 ff.).

* Exception: SLC 8x30 WB



SLC_{new} 8x56 B**
SLC_{new} 15x56 WB



SLC_{new} 7x50 B**
SLC_{new} 8x50 B**
SLC_{new} 10x50 WB



SLC_{new} 7x42 WB**
SLC_{new} 10x42 WB



SLC_{new} 8x30 WB

** No illustration



Habicht binoculars

Reliable Swarovski Optik quality gives excellent value for money:

With their traditional, sturdy construction, low weight and tried and trusted optical system, these classic binoculars are ideal as entry-level instruments. Many hunters appreciate the qualities of Habicht binoculars when mountain hunting.

Optical system:

- Ultra-precise porro-prism system for a short, easy-to-handle design and contrast-rich, three-dimensional images.
- A high-quality SWAROTOP and SWARODUR multi-layer coating for excellent light transmission and bright images.
- Large field of view through a 6-lens, wide-angle eyepiece (on the 8x30 and 10x40).
- Extremely resistant, external surface coating on all lenses.
- Excellent close observation work achieved by setting adjustment of only 3m (10ft) to infinity.

Design:

- Reliable under all conditions.
- Light, but very robust alloy housing.
- Leather or rubber armoring for shock absorption and noise reduction. Comfortable to handle even in cold weather.
- Double eccentric alignment for permanent axis parallelism.
- Central focusing wheel for rapid focusing.
- Watertight and nitrogen-filled.



Habicht binoculars are the classic among binoculars. A continual development of the basic model dating from 1949, even today they still provide proof of their phenomenal performance.



HABICHT 7 x 42 GA



HABICHT 8 x 30 W

Habicht binoculars

- Available in black with leather armoring or in green with rubber armoring. Supplied with case, carrying strap and eyepiece cover.
- Available as accessories: objective lens protective ring made of rubber (for all rubberised versions), leather eyepiece cover (for all black leather versions) and a genuine leather case.



Pocket binoculars

Ideal for all outdoor activities, at the theatre or even as a spare: Pocket binoculars will fit comfortably into any jacket pocket. They demonstrate true greatness both in their observation characteristics and also in their weight of only 215g (7.6oz)!

- Optical system:
- Complex optical system for compact binoculars with 16 lenses for bright images.
 - SWAROBRIGHT: Unique prism coating – for optimum colour fidelity across the whole light spectrum.
 - Ultra-precise roof prism system with P-coating: high resolution, contrast-rich images and slim-line construction.
 - A close focus adjustment of only 4m (13ft) allows excellent viewing even at the shortest distances.

- Design:
- Clear, simple design.
 - Extremely handy design: can be folded up to a width of 5.6cm (2.2in).
 - Extremely light, but very robust, alloy housing.
 - Made from non-allergenic materials: individually adjustable twist-in eyecups that can be removed for cleaning, allowing spectacle wearers a full field of view.
 - Double eccentric alignment for permanent axis parallelism.
 - Non-slip and shockproof rubber armouring on 8x20 B and 10x25 B.
 - User-friendly alignment of focusing wheel and dioptic correction via central wheel.
 - Interior focusing mechanism for protection against water and dust.



Pocket 10x25 B

3.98 in / 10.1 cm



Pocket 8x20 B

2.2 in / 5.6 cm

Can be folded up to a width of 2.2 in (5.6 cm).





Pocket Bridge: Exclusive high-grade binocular design from Swarovski Optik.



Elegant hand-stitched high-quality Italian leather Bridge case.

- Pocket binoculars**
- Pocket: Supplied with bag and carry cord.
 - Bridge: Supplied with elegant leather case and carry cord. Technical data as for Pocket 8x20 B.
 - Available as accessories: a robust multi-functional bag as well as a leather pouch case (see Product Accessories, page 94 ff.)

Binocular tables

BINOCULARS																		
Functional temperature: -25° C/+55° C (-13 to +131° F) • Storage temperature: -30° C/+70° C (-22 to +158° F) • Submersion tightness: 4m (13ft) (filled with nitrogen) • Dimensions with an interpupillary distance of 64mm/2.5in																		
	 EL*				 SLCnew*								 HABICHT			 POCKET*		
	8x32 WB	10x32 WB	8.5x42 WB	10x42 WB	8x30 WB	7x42 B	10x42 WB	7x50 B	8x50 B	10x50 WB	8x56 B	15x56 WB	8x30 W	7x42	10x40 W	8x20 B	10x25 B	
Magnification	8x	10x	8.5x	10x	8x	7x	10x	7x	8x	10x	8x	15x	8x	7x	10x	8x	10x	
Objective lens diameter	(mm)	32	32	42	42	30	42	42	50	50	50	56	56	30	42	40	20	25
	(in)	1.26	1.26	1.65	1.65	1.18	1.65	1.65	1.97	1.97	1.97	2.2	2.2	1.18	1.65	1.57	0.79	0.98
Exit pupil, diameter	(mm)	4.0	3.2	4.9	4.2	3.8	6	4.2	7.1	6.3	5	7	3.7	3.8	6	4	2.5	2.5
	(in)	0.16	0.13	0.19	0.17	0.15	0.24	0.17	0.28	0.25	0.2	0.28	0.15	0.15	0.24	0.16	0.1	0.1
Eye relief	(mm)	15	12	18	15	15	19	14	23	21	17	22	13	12	14	13	13	13
	(in)	0.59	0.47	0.71	0.59	0.59	0.75	0.55	0.91	0.83	0.67	0.87	0.51	0.47	0.55	0.51	0.51	0.51
Field of view, real	(m/1000 m)	140	120	130	110	136	140	110	124	123	112	115	77	136	114	108	115	95
	(ft/1000 yds)	420	360	390	330	408	420	330	372	369	336	345	231	408	342	324	345	285
Field of view, real	(degree)	8	6.9	7.4	6.3	7.8	8	6.3	7.1	7	6.4	6.6	4.4	7.8	6.5	6.2	6.6	5.4
Field of view, apparent (degree)		62	65	62	63	60	55	62	50	56	63	52	64	60	46	60	51	52
Shortest focusing distance	(m)	2.1	2	2.5	2.5	4	4	4	6	6	5	9	8	3	3.5	4	4	5
	(ft)	7	7	8	8	13	13	13	20	20	16	30	26	10	11	13	13	16
Diopter compensation	(dpt)	±3	±3	±3	±3	±5	±3	±5	±3	±3	±3	±2.5	±5	±5	±3	±5	±5	±5
Interpupillary distance	(mm)	56-74	56-74	56-74	56-74	56-72	56-72	56-72	57-72	57-72	57-72	59-72	59-72	56-72	56-72	56-72	56-72	56-72
	(in)	2.2-2.91	2.2-2.91	2.2-2.91	2.2-2.91	2.2-2.83	2.2-2.83	2.2-2.83	2.24-2.83	2.24-2.83	2.24-2.83	2.32-2.83	2.32-2.83	2.2-2.83	2.2-2.83	2.2-2.83	2.2-2.83	2.2-2.83
Twilight factor	(DIN 58388)	16	18	19	21	16	17	21	19	20	22	21	29	16	17	20	13	16
Length, approx.	(mm)**	138	136	165	158	141	164	147	200	198	196	215	215	L 114	GA 154	GA 154	101	116
	(in)**	5.4	5.3	6.5	6.22	5.55	6.46	5.79	7.87	7.8	7.72	8.46	8.46	L 4.49	L 6.06	L 6.06	3.98	4.57
Width, approx.	(mm)	114	114	123	123	110	122	122	126	126	126	128	128	L 160	GA 177	GA 175	93	93
	(in)	4.5	4.5	4.84	4.84	4.33	4.8	4.8	4.96	4.96	4.96	5.04	5.04	L 6.3	L 6.97	L 6.89	3.66	3.66
Height, approx.	(mm)	60	60	64	64	64	71	71	69	69	69	71	71	L 53	GA 58	GA 59	38	38
	(in)	2.4	2.4	2.52	2.52	2.52	2.8	2.8	2.72	2.72	2.72	2.8	2.8	L 2.09	L 2.28	L 2.32	1.5	1.5
Weight, approx.	(g)	610	600	820	780	590	950	870	1150	1150	1160	1240	1290	L 540	GA 760	GA 790	215	230
	(oz)	21.5	21.2	28.9	27.5	20.8	33.5	30.7	40.6	40.6	40.9	43.7	45.5	L 19	L 26.8	L 27.9	7.6	8.1
Colours		green	green	green	green	green	green	green	green	green	green	green	green	black	black green	black green	black green	black green
*individually adjustable twist-in eyecups • **with eyecups twisted-in • W = wideangle • B = spectacle wearers eyepiece • GA = rubber armouring • L = leather																		



STS 80



ATS 80



CTC 30x75



CTS 85



ATS/STS 80 and 65 (HD*)

Whether it's close-up or in the distance – savour every moment:

With ATS/STS 80/65 (HD*) observation telescopes, Swarovski Optik will impress users with their unbelievable performance. **Both telescopes are available as High Definition (HD*) models.**

Optical system:

- High-grade optical system.
- Very detailed observation work with high contrast images right up to the periphery and with total colour fidelity even in poor light.
- Extremely wide field of view.
- Excellent close-up focusing: 5m (16ft) with the ATS/STS 80 and 3m (10ft) with the ATS/STS 65.
- Better target identification – greater freedom when carrying out observation work.
- High Definition (HD*) instruments for even better colour fidelity.
- The ocular focal length is the same for all Swarovski Optik telescopes: the magnification data for all Swarovski Optik eyepieces is identical, regardless of which model of telescope the eyepiece is being used with.

Design:

- Design features include easy handling and low weight.
- Maximum functionality in all weather conditions and in all temperature zones.
- Extended objective lens cover with filter connector thread, silent to operate and can be locked in the ultimate extended setting.
- Rubber armouring to protect against jarring and noise for unobtrusive and quiet observation. Non-reflective, pleasant to handle, even in cold weather.
- Compact, light, corrosion-resistant and very sturdy aluminium housing.
- Ergonomically-positioned focusing ring with broader grooves for rapid and precise focusing, user-friendly, even with gloves.
- Bayonet connector for quick and easy change of eyepieces and photo equipment.
- Automatic safety mechanism to guard against accidental unscrewing.

- Dustproof and watertight to a depth of 4m (13ft) on account of interior focusing, no fogging due to nitrogen filling and protected against fungal deposits.
- Tilting tripod ring for setting to preferred observation position.
- Standardised foot fits Swarovski Optik tripods without additional plate, tripod screw thread can be used with other tripods.
- Glass cover protects against dust, dirt and moisture when eyepiece is removed.
- Removable aid for quick target pick-up.



The telescopes are ideal for photography.

ATS 65 (HD*)

The Swarovski Optik ATS/STS 65 (HD*) has all the advantages of the 80 series, but is even lighter and therefore ideal for frequent changes of position. This telescope can also be used for close focusing at only 3m (10ft).



All Swarovski Optik eyepieces are watertight and compatible with both of the ATS/STS 80 and 65 main bodies. For example, the 20x wide-angle eyepiece is ideal for scanning and counting flocks of birds, while the 20-60x zoom permits high-quality magnification.

ATS/STS 80/65 (HD*) observation telescopes

- Body supplied with objective lens cover and bayonet fitting cover.
- Eyepiece supplied with protective cover and bayonet fitting cap.
- Ideal for photography (see page 58 ff.).
- Available as accessories: Adapter for astronomical eyepieces, FH 101 tripod head, balance rail, various tripods, clamp, tree screw, Stay-on Cases (see Product Accessories page 94 ff).

* The instruments designated as HD (High Definition) are fitted with lenses manufactured from a type of glass that is particularly difficult to manufacture. This process is designed to avoid minute remains of any chromatic zonal aberrations. The result is images giving even more faithful colour reproduction.



CTS 85 and CTC 30x75

Unique angles in every situation:

The Swarovski Optik extendable telescopes with their smooth, pull-out mechanism, which has proved itself over many years, give bright, edge-to-edge images under all light conditions. They have manageable dimensions, so are ideal when changing position frequently.

Optical system:

- Scale to adjust distance for rapid focusing.
- High-grade optical system for bright, contrast-rich images, even in poor light.
- Large objective lens for good light gathering.

CTS 85



Extended length 43.6cm (17.2in) – ideal comfort in use and quick marking/identification.



45xSW
Field of view
28m (84ft)



30xSW
Field of view
42m (126ft)



20-60xS
Field of view
36-20m (108-60ft)

All Swarovski Optik eyepieces are waterproof. Fitted with a lens to protect against dust and dirt when the eyepiece is not attached. Bayonet fitting for quiet and easy detachment/attachment of eyepieces. Automatic safety system guards against accidental unscrewing.

Extendable telescope CTS

- Supplied: Body with carrying tackle.
- Also ideal for photography (see page 58 ff).
- Accessories available: adapter for astronomical eyepieces, clamp, tree screw and various tripods (see Product Accessories on page 94 ff).

Design:

- The perfect extended length for undisturbed observation over long distances, even without a tripod.
- Rubber armouring to protect against jarring and noise, and also making them comfortable to handle, even in cold weather.
- Full field of view for spectacle wearers. Individually adjustable, twist-off eyecup (CTS 85), eyepiece with fold back eyecup (CTC 30x75).
- Precise and smooth pull-out mechanism.
- Tripod connection thread for 1/4" and 3/8" screws.
- Filter system for keeping air clean – no dust or dirt, so lenses and prisms stay clean and clear.

CTC 30x75



Very compact portable dimensions, so ideal when changing position.












Fixed wide-angle eyepiece with 30x magnification. Eyepiece features an eyecup that can be turned back, allowing a full field of view for spectacle wearers. Non slip surface for focusing adjustment: rapid, precise focusing between 10m (33ft) and infinity.

Extendable telescope CTC

- Supplied with fixed 30x WW eyepiece and carrying tackle.
- Accessories available: clamp, tree screw and various tripods (see Product Accessories, page 94 ff).

Telescope table

TELESCOPES													
Functional temperature: -20° C/+55° C (-4 to +131° F) • Storage temperature: -30° C/+70° C (-22 to +158° F) Submersion tightness of CTS and CTC: depending on construction not waterproof • Submersion tightness ATS/STS: 4m (13ft) (filled with nitrogen)													
		 CTC/CTS	 ATS/STS 65	 ATS/STS 80					S-eyepieces are watertight				
													
										S-EYEPIECES			
		CTC 30x75	CTS 85	ATS 65 / ATS 65 HD	STS 65 / STS 65 HD	ATS 80	ATS 80 HD	STS 80	STS 80 HD	20xSW	30xSW	45xSW	20-60 x S
Magnification		30 x	–	–	–	–	–	–	–	20 x	30 x	45 x	20-60 x
Objective lens diameter (mm) (in)		75 2.95	85 3.35	65 2.56	65 2.56	80 3.15	80 3.15	80 3.15	80 3.15	–	–	–	–
Exit pupil, diameter (mm) (in)	CTC 30 x 75	2.5 0.1	–	–	–	–	–	–	–	–	–	–	–
	CTS 85	–	–	–	–	–	–	–	–	–	2.8 0.11	1.9 0.07	4.3-1.4 0.17-0.06
	all Ø 65 all Ø 80	–	–	–	–	–	–	–	–	3.3-4 0.13-0.16	2.2-2.7 0.09-0.11	1.4-1.8 0.05-0.07	3.3-1.1 0.13-0.04 4-1.3 0.16-0.05
Eye relief (mm) (in)		16 0.63	–	–	–	–	–	–	–	17 0.67	20 0.79	18 0.71	17 0.67
Field of view, real (m/1000 m) (ft/1000 yds)		41 123	–	–	–	–	–	–	–	60 180	42 126	28 84	36-20 108-60
Field of view, real (degree)		2.35	–	–	–	–	–	–	–	3.44	2.4	1.6	2.1-1.1
Field of view, apparent (degree)		66	–	–	–	–	–	–	–	66	66	66	40-65
Objective lens focal length (mm) (in)		460 18.11	460 18.11	460 18.11	460 18.11	460 18.11	460 18.11	460 18.11	460 18.11	23 0.9	15.3 0.6	10.2 0.4	23-7.6 0.9-0.3
Shortest focusing distance (m) (ft)		10 33	8 26	3 10	3 10	5 16	5 16	5 16	5 16	–	–	–	–
Diopter correction at ∞ (dpt)		> 5	> 5	> 5	> 5	> 5	> 5	> 5	> 5	–	–	–	–
Twilight factor DIN 58388	CTC 30 x 75	47	–	–	–	–	–	–	–	–	–	–	–
	CTS 85	–	–	–	–	–	–	–	–	–	50	62	41-71
	all Ø 65 all Ø 80	–	–	–	–	–	–	–	–	36 40	44 49	54 60	36-62 40-69
Objective filter thread		–	–	M 67 x 0.75	M 67 x 0.75	M 82 x 0.75	M 82 x 0.75	M 82 x 0.75	M 82 x 0.75	–	–	–	–
Length approx. (mm) (in)		310/490 12.2/19.3	246/436 9.7/17.2	325 12.8	305 12.0	355 13.98	355 13.98	335 13.19	335 13.19	70 2.76	73 2.87	78 3.07	86 3.39
Weight approx. (g) (oz)		1200 42.3	1400 49.4	1100/1130 38.3/39.9	1080/1110 38.1/39.2	1300 45.93	1350 47.70	1280 45.23	1330 46.91	220 7.8	250 8.8	260 9.2	260 9.2
SW + WW = wideangle													

30xWW and 20 – 60x eyepieces also available for AT/ST models + CT 85.

The ocular focal length is the same for all Swarovski Optik telescopes: the magnification data for all Swarovski Optik eyepieces is identical, regardless of which model of telescope the eyepiece is being used with.

Swarovski Optik Digiscoping:
Excellent pictures using modern technologies.



DCB-A
DCB-S



DCA



TLS 800


Combine the superior optical performance of Swarovski Optik telescopes with the advanced features of your digital camera.

Together with a telescope and camera, the DCA, DCB and TLS 800 form an ideal system – for fascinating and natural photographs.

Switch from observation to photography in seconds.
DCB Digital Camera Base for
ATS and STS telescopes:

With one simple up and down pivoting movement, the Swarovski Optik DCB Digital Camera Base allows switching between observation mode to photography mode in a matter of seconds. The DCB can be fitted very easily to the ATS/STS 80/65 spotting scopes and is an ideal solution for spontaneous photography.

- Alternate between observation and photography/filming in a single movement.
- Simple, quick mounting of the DCB onto the observation scope.
- Suitable for a wide range of digital compact cameras with a tripod thread.
- Low weight, stable, damps vibrations.
- Works with all S eyepieces.
- Telescope zoom or magnification change possible using 20-60x S variable eyepiece.
- Suitable for landscape and portrait photographs.
- DCB-A for ATS models, and DCB-S for STS models.

	DCB-A	DCB-S
L	254mm (10.0in)	256mm (10.0in)
W	95mm (3.74in)	95mm (3.74in)
H	180mm (7.09in)	180mm (7.09in)
	430g (15.1oz)	430g (15.1oz)

DCB-A and DCB-S

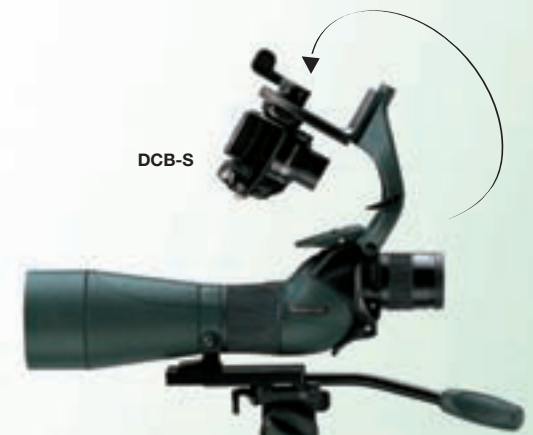
- Included as standard: balance rail, pouch, combi-key.
- Available as accessory: balance rail (see page 47).



Swarovski Optik ATS telescope with DCB-A in 1) observation mode and 2) photography mode.



STS + DCB-S
+ tripod system
+ camera



DCA Digital Camera Adapter:
Proven and versatile!

The Swarovski Optik DCA Digital Camera Adapter for observation telescopes, with 20x, 30x and 20-60x Eyepieces, is fitted directly to the eyepiece and to the camera. Suitable for a wide range of cameras with a lens thread or thread adapter, it forms a fixed connection between camera and telescope.

- Rugged aluminium construction, non-reflective surface.
- Quick, secure fitting with no misalignment. The camera is fitted securely to the eyepiece. Fixture also protects eyepiece.
- Ergonomically designed, rubber armoured clamping screw.
- Suitable for all current cameras with an objective lens thread or thread adapter M 28x0.75, M 37x0.75, M 43x0.75, M 52x0.75.
- Telescope-side zooming possible, while attached.
- Quick switch in a few movements between observing and photographing.
- Twist-in eyecups can be used with adapter sleeve in place.
- Connection rings for the most common filter thread dimensions are supplied as standard.

AT/ST adapter sleeve:

The adapter sleeve functions as intermediate sleeve for the zoom eyepiece. In this way the Swarovski Optik DCA Digital Camera Adapter can also be used with variable eyepieces of the older AT 80 (HD) and ST 80 (HD) series of telescopes.

NEW!

Adapter Sleeve



DCA	
L	57mm (2.24in)
W	80mm (3.14in)
	145g (5.11oz)

DCA

- Available as accessories: Adapter sleeve (see above), balance rail (see page 47).

DCA



For digital and classic SLR cameras:
Swarovski Optik TLS Telephoto Lens System.

The TLS 800, telescope, and camera combine to form a compact photography system, where the lower weight and significant cost saving are important factors.

- The TLS 800 is attached to the camera with a standard T2 intermediate ring.
- Bayonet fitting for quick, easy and secure attachment to the telescope base unit.
- High-grade optical system consisting of eight lenses with SWAROTOP and SWARODUR coatings.
- Low weight.
- Suitable for all Swarovski Optik telescopes with a detachable eyepiece.

Functional temperature: -20° C /+55° C (-4° to +131° F)	
Storage temperature: -30° C/+70° C (-22° to +158° F)	
Submersion tightness: mounted to base unit, 4m (13ft) (nitrogen filled)	

TLS 800



TLS 800		
Focal Length		(mm) (in)
		800 31.5
Aperture (mm) (in)	CTS 85	9
	all Ø 65	12
	all Ø 80	10
Camera connection		T 2
Length	(mm)	141
	(in)	5.55
Weight, approx.	(g)	240
	(oz)	8.45

TLS 800

- Available as accessory: Balance rail.



Balance rail

- Gives optimum centre of gravity for the telescope and thus blur-free images.
- Suitable for ATS/STS 80/65, AT/ST 80, CTC 30x75, CTS 85 and CT 75/85.
- Weight: 155g (5.47oz), Length: 135mm (5.3in), Width: 50mm (2.0in)

TLS 800



ATS 80 + TLS 800 +
tripod system + camera



You're always in a good position with Swarovski Optik.

For observation and photography, a tripod is an essential pre-requisite for sharp, high contrast images. Swarovski Optik offers you the perfect tripod and tripod head for all your needs, whether hiking over long distances or for stormy conditions by the sea. As the ideal addition to your photography or Digiscoping system, our tripods contribute decisively to high image quality.



CARBON CT 101 TRIPOD

- Very light and robust tripod with best possible carrying comfort.
- Ideal for longer hikes, trekking, travel, or Digiscoping with lightweight camera equipment.
- User friendly due to ergonomic design.
- Rapid and almost soundless opening and closing of the leg retaining clamps.
- Stable, low-maintenance, vibration-damping synthetic components made from glass fibre reinforced MAKROLON.
- Lightweight tripod head FH 101 with quick and comfortable use with one hand.
- Supplied as standard: FH 101 Tripod plate with 1/4" threaded bolt, carry strap, and additional adjustment tool for leg locking mechanism.



TRIPOD 2

- Compact tripod for mobile purposes, such as on long hikes or when travelling.
- Ideal for Digiscoping with lightweight photographic equipment (Digital Compact Cameras).
- Lightweight tripod head FH 101 with quick and comfortable use with one hand.
- Supplied as standard: FH 101 Tripod plate with 1/4" threaded bolt, carry strap, and additional adjustment tool for leg locking mechanism.



TRIPOD 1

- Perfect stability due to higher weight.
- Therefore ideal for observation in strong winds or for Digiscoping when using heavy photographic equipment (SLR camera, video equipment).
- Stable tripod head with liquid filling.
- Supplied as standard: 128 SWA Tripod plate with 1/4" threaded bolt, carry strap, and additional adjustment tool for leg locking mechanism.

	TRIPODS					TRIPOD HEAD	
1	190cm (75in)	64cm (25in)	74cm (29in)	2.6kg (91.7oz)	5kg (176oz)	880g (31oz)	5kg (176oz)
2	160cm (63in)	51cm (20in)	65cm (25in)	2.2kg (78oz)	5kg (176oz)	540g (19oz)	3.5kg (123oz)
CT 101	180cm (71in)	41cm (16in)	58cm (23in)	1.7kg (59.8oz)	5kg (176oz)	540g (19oz)	3.5kg (123oz)

Connector thread 3/8" UNC for all tripods.

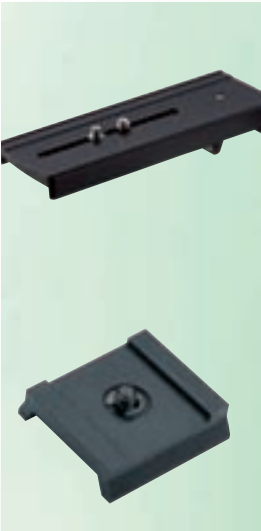
Tripod Head FH 101: Everything with one hand!

Swarovski Optik has developed a tripod head with advantages that bring a whole new dimension of comfort into tripod use. The most obvious advantage is the speed and comfort with which all aspects of use can be carried out with one hand. In this way, one can win valuable and decisive seconds during observation or photography.

- FMS Fast Mount System – for quick, easy, one-handed telescope mounting.
- Safety feature to prevent accidental release of the telescope.
- Free access to all interface elements.
- Lock both axes with a single movement of the hand.
- Guaranteed jolt-free tilt and pan movements (tilt angle $\pm 90^\circ$) – irrespective of temperature and speed of movement.
- Independent adjustments for tilt and pan movements.
- One control each for setting lock and adjustment.
- Low weight of just 540g (19oz), giving a low centre of gravity for the entire tripod-telescope unit and therefore a secure standing position.
- Equally suitable for left-handed or right-handed persons.
- Small operating forces and movement paths.
- Special bearing materials – no lubricant discharge.
- High-tensile, non-corrosive, glass fibre reinforced synthetic material: stable and strong as well easy to maintain and vibration damping.
- Connector thread: 3/8" UNC.



- Tripod Head FH 101**
- Supplied as standard: Tripod plate FH 101 with 1/4" threaded bolt.
 - Available as accessory: FH 101 tripod plate and balance rail.



- Balance rail**
- Gives optimum centre of gravity for the telescope and thus blur-free images.
 - Suitable for ATS/STS 80/65, AT/ST 80, CTC 30x75, CTS 85 and CT 75/85.
 - Weight: 155g (5.47oz), Length: 135mm (5.3in), Width: 50mm (2.0in)
- Tripod plate**
- Special tripod plate with mounting for AT/ST telescopes.
 - Observation telescope rests more securely on the tripod, easy to fit.



NEW! PVI-2 HIGH GRID Models



PV Models



PF Models



AV Models



Habicht PVI-2 HIGH GRID

Innovative reticles in the second image plane.

The new Habicht PVI-2 HIGH GRID rifle scope offers a choice of highly innovative second image plane reticles designed with practical use in mind: this means that a change in magnification enlarges only the target under observation and not the entire reticle, so that visibility of the target is improved. Furthermore, the PVI-2 HIGH GRID is also fitted with the new BE 4 Digital illumination unit – to give highest luminous intensity by day and at twilight.



PVI-2 1.25-4x24 HIGH GRID



PVI-2 1.5-6x42 HIGH GRID



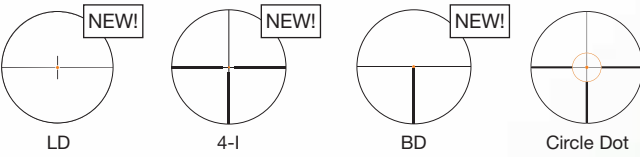
PVI-2 2.5-10x56 HIGH GRID



PVI-2 3-12x50 HIGH GRID

90mm (3.5in) eye relief to safeguard against recoil injuries.
All remaining technical data as for the PV – see page 67.

PVI-2 HIGH GRID reticles available:



(Complete overview of reticles for all rifle scopes on page 74).

BE 4 Digital:

- For daytime or twilight use.
- Memory Function: When the BE 4 Digital is switched off, the set brightness level is automatically stored and available for use the next time the unit is switched on. No need for re-adjustment each time the unit is switched on.
- Battery: If the battery is spent, a flashing LED-display indicates that a battery change is required.
- The BE 4 Digital covers a greater range of brightness than previously. This means that day time and twilight conditions are fully met.
- The BE 4 Digital features an automatic switch-off after 3 hours.
- Completely waterproof with caps screwed on or illumination unit removed.



BE 4 Digital illumination unit for daytime and twilight use. Completely waterproof with screw on caps or illumination unit fitted. To make battery changes quick and simple, a spare battery holder is fitted to the windage adjustment turret.

Habicht PVI-2 HIGH GRID rifle scopes

- Supplied with BE 4 Digital, spare battery holder, and transparent protective caps.
- Spare battery holder also available as an accessory.
- Point of impact correction: 1 Click equals 1cm at 100m (0.36in at 100yds) (PVI-2 HIGH GRID 1.25-4x24: 1.5cm at 100m [0.54in at 100yds]).
- Objective lens with thread for attaching all standard photo filters to increase contrast and for attaching sun shield.
- Available as an accessory: Sun shield (see Product Accessories page 95).



Habicht PV-I HIGH GRID

For hunting in daylight as well as for use in difficult lighting conditions:

The Swarovski Optik PV-I 1.5-6x42 and the Swarovski Optik PV-I 1.25-4x24 use HIGH GRID technology and are fitted with the BE 4 Digital illumination unit for optimum brightness during the day and the most precise adjustment in twilight. The brightness regulation can thus be adjusted to suit the particular light conditions perfectly, and even when the illumination is switched off, the reticle can still be used conventionally. Features patented Swarovski Optik coil spring system for absolute certainty of hitting your target – shot after shot and with every calibre.

Technical data as for the PV. 20mm longer for easier and more robust fitting.

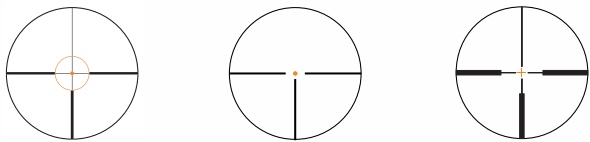


PV-I 1.25-4x24 HIGH GRID with BE 4 Digital



The BE4 Digital illumination unit for use by day and in twilight. Totally watertight when the turret cap or when illumination unit is attached. For rapid and simple battery exchange, a spare battery holder is located in the side turret.

PV-I HIGH GRID reticles available :



Circle Dot Dot 4A-IK

(Complete overview of reticles for all rifle scopes on page 74)

PV-I HIGH GRID rifle scopes

- Supplied with BE 4 Digital, spare battery holder, and transparent protective caps.
- Objective lens with thread for attaching all standard photo filters to increase contrast and for attaching sun shield.
- Available as accessory: sun shield for PV-I 1.5–6x42 HIGH GRID (see Product Accessories page 95).

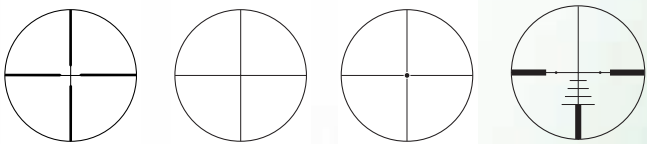


Habicht PV-S

Specially designed for competition shooting:

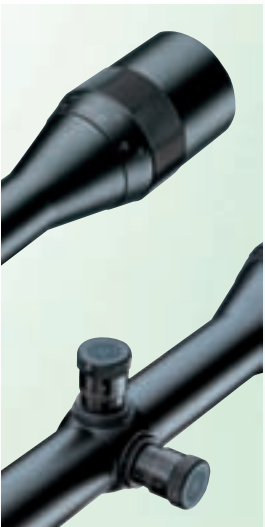
Swarovski Optik PV-S 6-24x50 P. With parallax correction and sun shield. Reticle adjustment features an increased elevation adjustment range and the reticle is located in the second image plane. Patented Swarovski Optik coil spring system for absolute certainty of hitting your target – shot after shot and with every calibre.

PV-S reticles available:



Plex Crosshair Dot TDS-4

(Complete overview of reticles for all rifle scopes on page 74).



Parallax correction for utmost precision even over long distances.

Specially designed for competition shooting: rectangular reticle adjustment range for increased finer windage and elevation setting (1 click equals 4.8mm at 100m [0.18in at 100yds]).

PV-S rifle scope

- Supplied with transparent protective caps and sun shield.
- Objective lens is threaded to enable attachment of standard photo filters for increased contrast and reducing sunlight glare.



Habicht PV and PV-N

Perfect for stalking or shooting from a stationary position:

The Swarovski Optik Habicht PV rifle scopes offer variable magnifications and are lightweight. Another important feature: the scale is easy to read and use when in firing position. For precision firing in twilight, Habicht PV-N versions are equipped with the Swarovski Optik illuminated reticle.

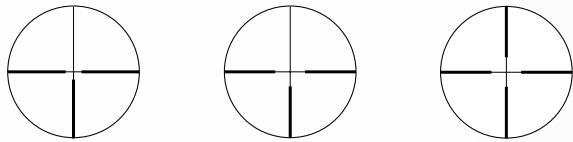
Optical system:

- Complex, high light-gathering optical system for a wide field of view with optimum edge-to-edge sharpness.
- Dioptic correction.
- Centred reticle in the first image. (Except the 4-16x50 P and 6-24x50 P)
- Quadratic adjustment area for full edge-to-edge ranging.
- Microstructure grooves: precisely defined ribbing prevents residual reflections inside the tube, creating bright, contrasty images, even with backlighting.

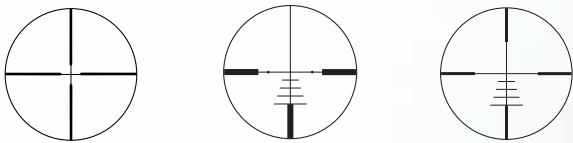
Function:

- Magnification ring with sure grip and offset scale, easy to use and read when in firing position.
- Ultra-precise adjustment turrets and guaranteed shock resistance, even with high calibre firearms.
- Eyecup with telescopic shock absorption to protect against recoil injuries, particularly when shooting upwards.
- Sturdy, but light main tube – with or without mounting rail.
- Features patented Swarovski Optik coil spring system for absolutely certainty of hitting your target – shot after shot and with every calibre.
- Nitrogen-purged to prevent fogging.
- Patented zero setting system for precision adjustment of the point of impact without the use of tools.

PV reticles available:

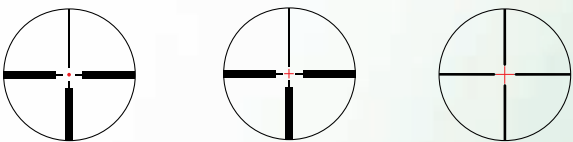


4 4A 7A



Plex TDS-4 TDS-Plex

PV-N illuminated reticles available:



4-N 4-NK Plex-N



4A-N

(See page 74 for a summary of all rifle scope reticles)



Illuminated reticles with variable fine tuning of light intensity. Fully functional, even when illumination is switched off. PV-N rifle scopes are 100% waterproof when the screw-on turret caps or illumination unit are attached. Spare battery holder supplied as standard.



PV 1.25-4 x 24



PV 1.5-6 x 42



PV 2.5-10 x 42



PV 2.5-10 x 56



PV 4-16 x 50 P



PV 6-24 x 50 P



PV-N 2.5-10 x 42



PV-N 2.5-10 x 56



PV-N 3-12 x 50

Habicht PV and PV-N rifle scopes

- PV: Supplied with transparent protective caps.
- PV-N: Supplied with BE 3, spare battery holder, and transparent protective caps.
- For Habicht PV-N: spare battery holder also available as an accessory.
- Habicht PV 4-16x50 P and 6-24x50 P with parallax correction for absolute accuracy over all distances. Reticle in the second plane: reticle remains the same size even at the highest magnification. Includes screw-on sun shield.
- Point of impact correction: 1 Click equals 1cm at 100m (0.36in at 100yds) (PV 1.25-4x24 rifle scope: 1.5cm at 100m [0.54in at 100yds], PV 4-16x50 P and PV 6-24x50 P rifle scopes: 0.5cm at 100m [0.18in at 100yds]).
- Objective lens is threaded to enable attachment of standard photo filters for increased contrast and reducing sunlight glare.
- Available as accessory: sun shield, except for PV 1.25-4x24 and PV/PV-N 2.5-10x56 (see Product Accessories page 95).



Swarovski Optik Rifle Scope Mounting System. SR (Swarovski Optik Rail)

Absolute precision with numerous mounting advantages.

The Swarovski Optik SR mounting rail (Swarovski Optik Rail) represents the most innovative type of rifle scope mounting. Especially with calibres that cause enormous recoil forces, for example when hunting big game or boar, the clear advantages of the new SR mounting rail become particularly apparent.

- Optical system:
- All the advantages of the Habicht P-Series.
- Function:
- All the advantages of a Habicht P rifle scope.
 - Absolute recoil steadiness due to the Swarovski Optik gearing system.
 - Can be mounted without drilling holes into the rifle scope.
 - The rifle scope can be changed at any time, easily and without damage.
 - Extremely low profile mounting possible.
 - Exposed gear teeth are covered to protect them from dust and dirt.

Available for the following rifle scopes from Swarovski Optik:

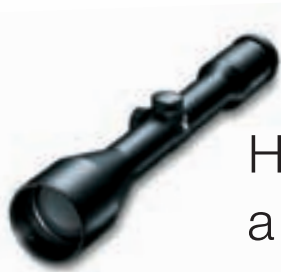
- PV/PV-I/PVI-2 1.25-4x24 SR
- PV/PV-I/PVI-2 1.5-6x42 SR
- PV/PV-N/PVI-2 2.5-10x56 SR
- PV/PV-N/PVI-2 3-12x50 SR
- PF-N 8x56 SR



The unique gearing system gives absolute recoil steadiness.



Innovative new mounting rail for simple and very low-profile mounting.



Habicht PF and PF-N

The classic in the P series:

The Swarovski Optik Habicht PF series of rifle scopes boast a timeless design and the very latest technology. These instruments are low weight with a fixed magnification. For precision firing in twilight, the Habicht PF-N versions are equipped with the Swarovski Optik illuminated reticle.

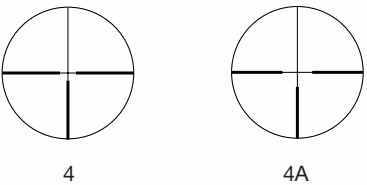
- Optical system:
- Extra-wide field of view and sharp, edge-to-edge images.
 - Microstructure grooves: precisely defined ribbing prevents residual reflections inside the tube, creating bright, contrasty images, even with backlighting.
 - Dioptic correction.
 - Complex, high light-gathering optical system for a wide field of view with optimum edge-to-edge sharpness.
 - Centred reticle in the first image plane, patented zero setting system for precision adjustment of the point of impact without the use of tools.
 - Quadratic adjustment area for full edge-to-edge ranging.

- Function:
- Robust but light main tube with or without mounting rail, plus sturdy, scratchproof light alloy housing.
 - Totally waterproof even without the turret cap (PF-N rifle scopes: with turret cap on).
 - Ultra-precise adjustment turrets and guaranteed shock resistance, even with large calibre firearms.
 - Eyecup with telescopic shock absorption protects against recoil injuries even when shooting upwards.
 - Nitrogen-purged to prevent fogging.

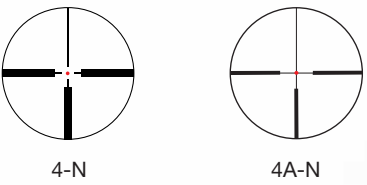


Illuminated reticles with smooth fine adjustment of illumination intensity. Reticle can be used as normal with illumination switched off. PF-N rifle scopes are completely waterproof with the dust caps in place or illumination unit removed. Battery holder supplied as standard. (Illuminated reticles can be retrofitted to certain models.)

PF reticles available:



PF-N illuminated reticles available:



(See page 74 for a summary of all rifle scope reticles)



PF 6x42



PF 8x56



PF-N 8x50



PF-N 8x56

Habicht PF and PF-N rifle scopes

- PF: Supplied with transparent protective caps.
- PF-N: Supplied with BE 3, spare battery holder, and transparent protective caps.
- Point of impact correction: 1 Click equals 1cm at 100m (0.36in at 100yds).
- For Habicht PF-N: spare battery holder also available as an accessory.
- Objective lens is threaded to enable attachment of standard photo filters for increased contrast and reducing sunlight glare.
- Available as accessory: sun shield for PF 6x42 and PF/PF-N 8x50 (See Product Accessories page 95).



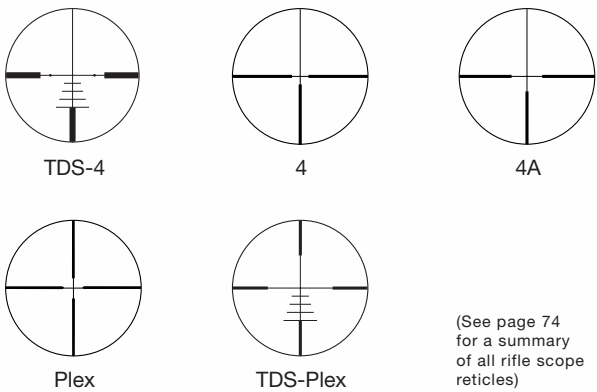
Habicht AV

Total precision even over long distances:

Because of their low weight and slender, very short construction, the ultra-precise Swarovski Optik AV rifle scopes are the ideal rifle scopes for hunting on the move, i.e. stalking or mountain hunting.

- Optical system:
- Variable magnification.
 - Reticle in the second image plane means that as the magnification increases the reticle remains the same size.
 - Microstructure grooves: precisely defined ribbing to prevent residual reflections inside the tube for brilliant, high contrast images, even with backlighting.
 - Quadratic adjustment area for full edge-to-edge ranging.
 - Dioptic correction.
 - Complex, high light-transmission optical system for wide field of view with optimum edge-to-edge sharpness.

AV reticles available:



(See page 74 for a summary of all rifle scope reticles)

Habicht AV rifle scopes

- Supplied with transparent protective caps.
- Objective lens is threaded to enable attachment of standard photo filters for increased contrast and reducing sunlight glare.
- Available as accessory: sun shield for AV 3-10x42, AV 4-12x50 and AV 6-18x50 P (see Product Accessories page 95).

- Function:
- Slender construction for very compact mounting – low deviation from point of impact when rifle is tilted.
 - Slender main tube with 1" diameter, yet generates extremely luminous optics.
 - Guaranteed protection against recoil injuries, particularly when shooting upwards because of 90 mm eye relief.
 - Magnification ring with sure grip: easy to read when in firing position.
 - Totally waterproof, even without turret cap.
 - Patented zero setting system for precision adjustment of the point of impact without the use of tools.
 - Features patented Swarovski Optik coil spring system for absolute certainty of hitting your target – shot after shot and with every calibre.
 - Nitrogen purged to prevent fogging.



AV 3-9x36



AV 3-10x42





AV 4-12x50






AV 6-18x50 P

Rifle scopes in detail

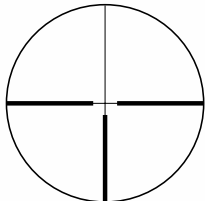
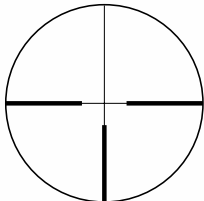
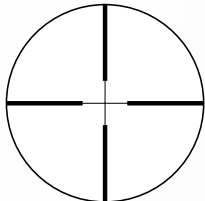
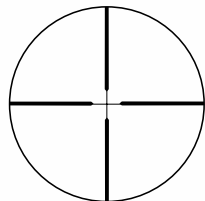
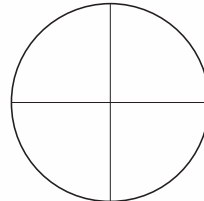
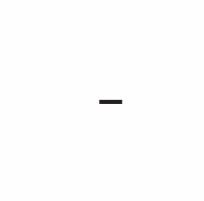
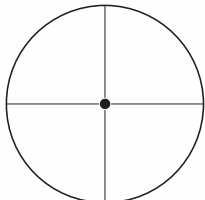
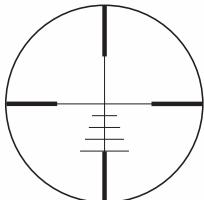
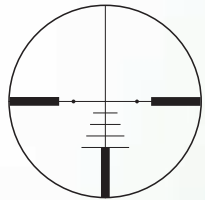



RIFLE SCOPES											
Functional temperature: -20° C/+55° C (-4 to +131° F) • Storage temperature: -30° C/+70° C (-22 to +158° F) Submersion tightness: 4 m (13 ft) (filled with nitrogen) • Parallax-free at 100 m (110 yds) (PV 6-24x50 P and PV 4-16x50 P: ∞ - 50 m / 55 yds, PV 3-12x50 TDS-PLEX: 200 m / 220 yds)											
	<div><div>NEW!</div></div> <div>PVI-2</div>			<div></div> <div>PV / PV-N / PV-I</div>							
	PVI-2 HIGH GRID 1.25-4x24	PVI-2 HIGH GRID 1.5-6x42	PVI-2 HIGH GRID 2.5-10x56	PVI-2 HIGH GRID 3-12x50	PV/PV-I HIGH GRID 1.25-4x24	PV/PV-I HIGH GRID 1.5-6x42	PV/PV-N 2.5-10x42	PV/PV-N 2.5-10x56	PV/PV-N 3-12x50	PV 4-16x50 P	PV 6-24x50 P
Magnification	1.25-4x	1.5-6x	2.5-10x	3-12x	1.25-4x	1.5-6x	2.5-10x	2.5-10x	3-12x	4-16x	6-24x
Objective lens diameter (mm) (in)	16-24 0.63-0.94	20-42 0.79-1.65	33-56 1.3-2.20	39-50 1.54-1.97	16-24 0.63-0.94	20-42 0.79-1.65	33-42 1.3-1.65	33-56 1.3-2.2	39-50 1.54-1.97	50 1.97	50 1.97
Exit pupil, diameter (mm) (in)	12.5-6 0.49-0.24	13.1-7 0.52-0.28	13.1-5.6 0.52-0.22	13.1-4.2 0.52-0.17	12.5-6 0.49-0.24	13.1-7 0.52-0.28	13.1-4.2 0.52-0.17	13.1-5.6 0.52-0.22	13.1-4.2 0.52-0.17	12.5-3.1 0.49-0.12	8.3-2.1 0.33-0.08
Eye relief (mm) (in)	90 3.5	90 3.5	90 3.5	90 3.5	80 3.15	80 3.15	80 3.15	80 3.15	80 3.15	80 3.15	80 3.15
Field of view, real (m/100 m) (ft/100 yds)	32.8-10.4 98.4-31.2	22.2-7 66.3-21	13.2-4.1 39.6-12.3	11-3.5 33-10.5	32.8-10.4 98.4-31.2	22.2-7 66.3-21	13.2-4.2 39.6-12.6	13.2-4.1 39.6-12.3	11-3.5 33-10.5	9.1-2.6 27.3-7.8	6.2-1.8 18.6-5.4
Field of view, real (degree)	18.6-6	12.4-4	7.5-2.4	6.3-2	18.6-6	12.4-4	7.5-2.4	7.5-2.4	6.3-2	5.2-1.5	3.5-1
Field of view, apparent (degree)	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2
Diopter compensation (dpt)	+2, -3	+2, -3	+2, -3	+2, -3	+2, -3	+2, -3	+2, -3	+2, -3	+2, -3	+2, -3	+2, -3
Transmission (%)	91	93	91	92	93/91	91	94/92	93/91	94/92	90	90
Twilight factor (DIN 58388)	4-10	4-16	7-24	9-25	4-10	4-16	7-21	7-24	9-25	11-28	17-35
Impact point cor- rection per click (mm/100 m) (in/100 yds)	15 0.54	10 0.36	10 0.36	10 0.36	15 0.54	10 0.36	10 0.36	10 0.36	10 0.36	5 0.18	5 0.18
Max. elevation/windage adjustment range (m/100 m) (ft/100 yds)	3.3 9.9	2.2 6.6	1.3 3.9	1.1 3.3	3.3 9.9	2.2 6.6	1.3 3.9	1.3 3.9	1.1 3.3	E: 1.8/W: 1 E: 5.4/W: 3	E: 1.2/W: 0.7 E: 3.6/W: 2.1
Objective filter thread	M 27x 0.75	M 44x 0.75	M 58x 0.75	M 52x 0.75	M 27x 0.75	M 44x 0.75	M 44x 0.75	M 58x 0.75	M 52x 0.75	M 55x 0.75	M 55x 0.75
Length, approx. (mm) (in)	290 11.42	330 12.99	346 13.62	340 12.0	290 11.42	330 12.99	336 13.23	346 13.62	340 12.0	361 14.21	392 15.43
Weight, approx. L	370 13.1	445 15.7	520 18.3	475 16.8	380 13.4	445 15.7	430 15.2	520 18.3	480 16.9	630 22.2	670 23.6
(g) / (oz)	SR 395 13.9	460 16.2	540 19.1	490 17.3	400 14.1	465 16.4	–	540 19.1	495 17.5	–	–

L = light alloy • SR = light alloy with Swarovski Optik Rail

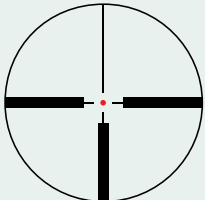
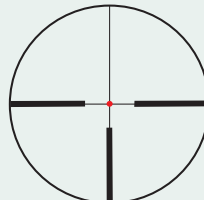
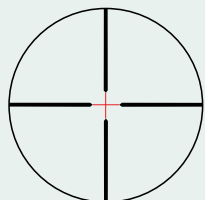
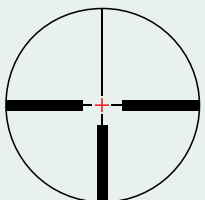
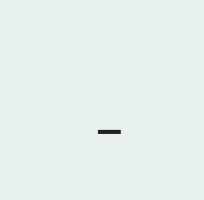
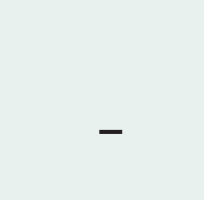
RIFLE SCOPES								
Functional temperature: -20° C/+55° C (-4 to +131° F) • Storage temperature: -30° C/+70° C (-22 to +158° F) Submersion tightness: 4 m (13 ft) (filled with nitrogen) • Parallax-free at 100 m (110 yds) (PV 6-24x50 P and AV 6-18x50 P: ∞ - 50 m / 55 yds)								
	<div></div> <div>PV-S</div>	<div></div> <div>PF / PF-N</div>	<div></div> <div>AV</div>					
	PV-S 6-24x50 P	PF 6x42	PF/PF-N 8x50	PF/PF-N 8x56	AV 3-9x36	AV 3-10x42	AV 4-12x50	AV 6-18x50 P
Magnification	6-24x	6x	8x	8x	3-9x	3.3-10x	4-12x	6-18x
Objective lens diameter (mm) (in)	50 1.97	42 1.65	50 1.97	56 2.20	36 1.42	42 1.65	50 1.97	50 1.97
Exit pupil, diameter (mm) (in)	8.3-2.1 0.33-0.08	7 0.28	6.25 0.25	7 0.28	12-4 0.47-0.16	12.6-4.2 0.5-0.17	12.5-4.2 0.49-0.17	8.3-2.8 0.33-0.11
Eye relief (mm) (in)	80 3.15	80 3.15	80 3.15	80 3.15	90 3.5	90 3.5	90 3.5	90 3.5
Field of view, real (m/100 m) (ft/100 yds)	6.2-1.8 18.6-5.4	7 21	5.2 15.6	5.2 15.6	13-4.5 39-13.5	11-3.9 33-11.7	9.7-3.3 29.1-9.9	5.8-2.2 17.4-6.6
Field of view, real (degree)	3.5-1	4	3	3	7.4-2.6	6.3-2.2	5.5-1.9	3.3-1.3
Field of view, apparent (degree)	23.2	23.2	23.2	23.2	22.7	22.7	22.7	20.7-22.7
Diopter compensation (dpt)	+2, -3	+2, -3	+2, -3	+2, -3	±2.5	±2.5	±2.5	±2.5
Transmission (%)	90	94	94/92	93/91	94	94	94	90
Twilight factor (DIN 58388)	17-35	16	20	21	9-18	9-21	11-25	17-30
Impact point cor- rection per click (mm/100 m) (in/100 yds)	4.8 (1/6 MOA) 0.17	10 0.36	10 0.36	10 0.36	7 0.25	7 0.25	7 0.25	7 0.25
Max. elevation/windage adjustment range (m/100 m) (ft/100 yds)	E: 1.2 / W: 0.7 E: 3.6 / W: 2.1	1.3 3.9	1.1 3.3	1.3 3.9	1.6 4.8	1.4 4.2	1.2 3.6	E: 1.3 / W: 1 E: 3.9 / W: 3
Objective filter thread	M 55x 0.75	M 44x 0.75	M 52x 0.75	M 58x 0.75	M 39x 0.75	M 44x 0.75	M 52x 0.75	M 55x 0.75
Length, approx. (mm) (in)	392 15.43	326 12.83	331 13.03	337 13.27	301 11.85	316 12.44	343 13.5	377 14.84
Weight, approx. L	695 24.5	340 12.0	395 13.9	450 15.9	330 11.6	360 12.7	395 13.9	575 20.3
(g) / (oz)	SR –	–	–	465 16.4	–	–	–	–

L = light alloy • SR = light alloy with Swarovski Optik Rail

Daylight reticles for PV, PV-S and PF

 4	 4A	 7A	 Plex	 Crosshair	
 Dot	 TDS-Plex	 TDS-4			

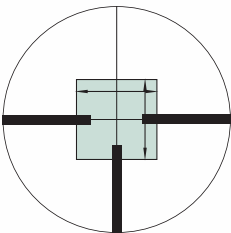
Illuminated reticles for PV-N and PF-N

 4-N	 4A-N	 Plex-N	 4-NK		
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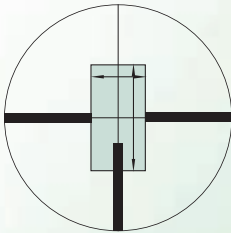
Universal illuminated reticles for PVI-2 and PV-I HIGH GRID

 4A-IK	 Circle Dot	 Dot	<div>NEW!</div>  4-I	<div>NEW!</div>  LD	<div>NEW!</div>  BD
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RETICLES									
For PF & PV models									
		4	4A	7A	Plex	Crosshair	Dot	TDS-Plex	TDS-4
1 st image plane	PF 6x42	L	•	•					
	PF 8x50	L	•	•					
	PF 8x56	L	•	•					
	PV 1.25-4x24	L	•	•					
		SR		•					
	PV 1.5-6x42	L	•	•	•				
		SR	•	•					
	PV 2.5-10x42	L	•	•	•				
	PV 2.5-10x56	L	•	•					
		SR	•						
	PV 3-12x50	L	•	•				•	
		SR	•	•				•	
2 nd image plane	PV 6-24x50 P	L		•	•				•
	PV-S 6-24 x50 P	L			•	•	•		•
	PV 4-16x50 P	L		•	•				•
	AV 3-9x36	L		•					
	AV 3-10x42	L	•	•	•			•	
	AV 4-12x50	L	•	•	•				•
	AV 6-18x50 P	L			•				•
L = light alloy • SR = light alloy with Swarovski Optik Rail									



Quadratic adjustment range
When adjusting the reticle the full adjustment range is available in horizontal as well as in vertical dimension.

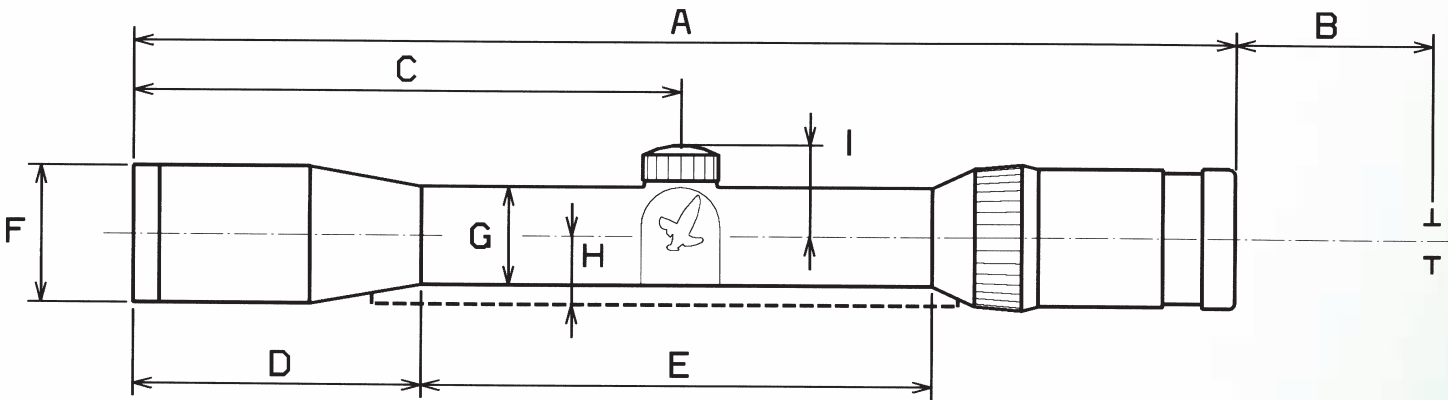


Rectangular adjustment range
Used with Swarovski PV 4-16 x 50 P, PV 6-24 x 50 P and PV-S 6-24 x 50 P. Specially designed for long distance shooting, allowing for additional ballistic drop due to extended vertical adjustment.



ILLUMINATED RETICLES						UNIVERSAL ILLUMINATED RETICLES						
For PF-N & PV-N models						For PV-I HIGH GRID models			For PVI-2 HIGH GRID models			
		4-N	4A-N	Plex-N	4-NK	4A-IK	Circle Dot	Dot	LD	Circle Dot	4-I	BD
1 st image plane	PF-N 8x50	L	•									
	PF-N 8x56	L	•	•								
		SR	•	•								
	PV-I 1.25-4x24	L					•	•				
		SR					•	•				
	PV-I 1.5-6x42	L				•	•	•				
		SR				•	•	•				
	PV-N 2.5-10x42	L	•	•		•						
	PV-N 2.5-10x56	L	•	•		•						
		SR	•	•		•						
	PV-N 3-12x50	L	•	•	•	•						
		SR	•	•		•						
2 nd image plane	PVI-2 1.25-4x24	L							•	•	•	•
		SR							•	•	•	•
	PVI-2 1.5-6x42	L							•	•	•	•
		SR							•	•	•	•
	PVI-2 2.5-10x56	L							•		•	•
		SR							•		•	•
	PVI-2 3-12x50	L							•		•	
		SR							•		•	
L = light alloy • SR = light alloy with Swarovski Optik Rail												


The range of reticles is continually adapted.
You will find the latest information at www.swarovskioptik.com.

Rifle scope-dimensions


RIFLE SCOPE-DIMENSIONS									
									
	A	B	C	D	E	F	G	H	I
PF 6x42	326 12.8	80 3.1	166 6.5	89 3.5	153 6.0	48 1.9	25.4 1	–	25 1
PF/PF-N 8x50	331 13.0	80 3.1	170 6.7	95 3.7	156 6.1	56 2.2	30 1.2	20 0.8	28 1.1
PF/PF-N 8x56	337 13.3	80 3.1	175 6.9	99 3.9	158 6.2	62 2.4	30 1.2	20 0.8	28 1.1
PVI-2 1.25-4x24	290 11.4	90 3.5	117 4.6	–	197 7.8	30 1.2	30 1.2	20.5 0.8	28 1.1
PVI-2 1.5-6x42	330 13.0	90 3.5	160 6.3	84 3.3	153 6.0	48 1.9	30 1.2	20 0.8	28 1.1
PVI-2 2.5-10x56	346 13.6	90 3.5	175 6.9	98 3.9	153 6.0	62 2.4	30 1.2	20 0.8	28 1.1
PVI-2 3-12x50	340 13.4	90 3.5	170 6.7	95 3.7	151 5.9	56 2.2	30 1.2	20 0.8	28 1.1
PV/PV-I 1.25-4x24	290 11.4	80 3.1	117 4.6	–	197 7.8	30 1.2	30 1.2	20 0.8	28 1.1
PV/PV-I 1.5-6x42	330 13.0	80 3.1	160 6.3	84 3.3	153 6.0	48 1.9	30 1.2	20 0.8	28 1.1
PV/PV-N 2.5-10x42	336 13.2	80 3.1	166 6.5	89 3.5	153 6.0	48 1.9	30 1.2	20 0.8	28 1.1
PV/PV-N 2.5-10x56	346 13.6	80 3.1	175 6.9	98 3.9	153 6.0	62 2.4	30 1.2	20 0.8	28 1.1
PV/PV-N 3-12x50	340 13.4	80 3.1	170 6.7	95 3.7	151 5.9	56 2.2	30 1.2	20 0.8	28 1.1
PV 4-16x50 P	361 14.2	80 3.1	180 7.1	116 4.6	150 5.9	58 2.3	30 1.2	–	28 1.1
PV 6-24x50 P	392 15.4	80 3.1	212 8.3	116 4.6	181 7.1	58 2.3	30 1.2	–	28 1.1
PV-S 6-24x50 P	392 15.4	80 3.1	212 8.3	116 4.6	181 7.1	58 2.3	30 1.2	–	49 1.9
AV 3-9x36	301 11.8	90 3.5	141 5.6	72 2.8	136 5.4	42 1.7	25.4 1	–	26 1
AV 3-10x42	316 12.4	90 3.5	157 6.2	86 3.4	137 5.4	48 1.9	25.4 1	–	26 1
AV 4-12x50	343 13.5	90 3.5	184 7.2	107 4.2	144 5.7	56 2.2	25.4 1	–	26 1
AV 6-18x50 P	377 14.8	90 3.5	218 8.6	138 6.4	146 5.8	58 2.3	25.4 1	–	26 1
All measurements in mm / in									

Overview: Illumination units

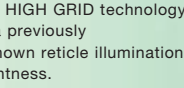
ILLUMINATED RETICLES FOR RIFLESCOPES		
Functional temperature: -20° C/+55° C (-4 to +131° F) • Storage temperature: -30° C/+70° C (-22 to +158° F) Submersion tightness: 4 m (13 ft) (when mounted on scope)		
	 BE 4 Digital for daytime and twilight reticles	 BE 3 for daytime and twilight reticles
Height	(mm) / (in) 25 / 0.98	28 / 1.1
Diameter	(mm) / (in) 31.5 / 1.24	29 / 1.14
Weight	(g) / (oz) 30 / 1.05	28 / 1.1
Battery	3V, CR 2032	3V, CR 2032
Operational time span, approx. (h)	Twilight factor at medium brightness: 450 Daylight factor at medium brightness: 38	Twilight factor: 400 Daylight factor: 30




NEW!
BE 4 Digital



HIGH GRID new
from Swarovski Optik



New HIGH GRID technology
for a previously
unknown reticle illumination
brightness.



BE 3

NEW! BE 4 Digital

- The BE 4 Digital regulates over a greater spectrum of brightness than before. Optimum use in daytime and twilight.
- Memory Function: When the BE 4 Digital is switched off, the set brightness level is automatically stored and available for use the next time the unit is switched on. No need for re-adjustment each time the unit is switched on.
- Illumination unit located on the centre of the main tube and not on the ocular, giving homogenous contours and unaltered profile. Magnification ring remains easily accessible.
- The BE 4 Digital is suitable for all PV-I and PVI-2 HIGH GRID rifle scopes.
- Battery: If the battery is spent, the reticle flashes to indicate the need for a battery change.
- Automatic switch-off function after 3 hours.

HIGH GRID:

- New HIGH GRID technology for even clearer and sharper reticle presentation.
- Maximum illumination for perfect reticle recognition.
- Maximum brightness in daylight and ultra-fine adjustability at night.
- Various types of reticle available.

Illumination Unit BE 3 (PV-N and PF-N Models).

- Suited to use in twilight and in poor lighting conditions.
- Due to a markedly finer adjustment range, the brightness of the reticle can be adjusted to perfectly suit differing light conditions.

Making moments
memorable.

Whether you are using binoculars, a telescope, or a rifle scope – Swarovski Optik products bring you closer to nature. There are, however, situations – such as extreme darkness or unexpectedly difficult terrain – in which quite special capabilities are suddenly in demand. With Swarovski Optik, these times will not get in the way of experiencing nature to the full. For all our products, we offer an outstanding and comprehensive selection of high

quality and extremely functional accessories for all eventualities. In this way, Swarovski Optik is able to offer hitherto unknown performance and precision with the Laser Guide 8x30 range-finding binoculars. And the Swarovski Optik NC 2 Night Vision device will produce clear images at those times when human eyesight is simply too weak.

Laser Guide 8x30: Observe and measure distance simultaneously – with the highest quality.



Monocular Laser Range-finder – ultra-high image quality due to patented binocular technologies.

Unique technological standard – for exact range measurement, even in bad weather conditions or over great distances.

Laser Guide 8x30.

More possibilities, higher precision, outstanding reliability.

The new Swarovski Optik 8x30 Laser Guide combines the high quality standard of Swarovski Optik binoculars with the latest laser range-finding technology in a comfortable, compact, lightweight device. This makes hitherto unknown performance in image quality and precision possible, even in difficult weather or light conditions or over the greatest distances. So you can be absolutely sure of what you're getting into long before you get there.



Holster for safe transport of the Laser Guide

Optical system:

- Monocular SLC 8x30 Optical system with SWAROBRIGHT.
- Maximum range of approx. 1500m (1600yds).
- Accuracy = ± 1 m.
- Laser: Safe for eyes, Class 1 Laser.
- Scan Mode.
- 30 mm viewing optic.
- 30 mm receiving optic.
- Dioptric adjustment range – 5dpt to + 14dpt.
- Shortest focusing distance 4m (13ft).
- Adjustable roll-down eyecups, that can be removed for cleaning.
- Wide field of view even for spectacle wearers.

Design:

- Compact dimensions for facilitated handling: 120 x 99 x 46mm (4.7 x 3.9 x 1.8in).
- Low weight: 386g (13.6oz) incl. Batteries.
- LCD display with target circle for rapid acquisition.
- Automatic brightness regulation.
- Low battery level display.
- Tripod connector.
- Carry strap.
- Distance displayed in yards or metres.
- Waterproof up to approx. 4m (0.4bar).
- Holster.

Laser Guide 8x30
• Supplied with carry strap, ocular protective cap, holster, battery.

LASER GUIDE 8x30			
Functional temperature: -10° C/+50° C (+14 to +122° F) • Storage temperature: -25° C/+70° C (-13 to +158° F) • Battery: 1 x CR 2 Operational time span: min. 1000 measurements • Tripod connection thread: 1/4" UNC • Submersion tightness: 4m (13ft)			



Maximum range	(m) / (yds)	>1500 / 1600	Field of view	(degrees) 7.8°
Minimum range	(m) / (yds)	9 / 9	Eye side field of view	(degrees) 60°
Range-finding accuracy	(m) / (yds)	typically ± 1 / ± 1	Shortest focusing distance	(m) / (yds) 4 / 13
Display		LCD-Display	Dioptric adjustment range	(dpt) – 5 to +14
Laser		Divergence: 2mrad Wavelength: 905 nm	Twilight factor (DIN 58388)	16
Magnification		8x	Length, approx.	(mm) / (in) 120 / 4.7
Effective objective diameter	(mm) / (in)	30 / 1.18	Width, approx.	(mm) / (in) 99 / 3.9
Exit pupil diameter	(mm) / (in)	3.8 / 0.15	Height, approx.	(mm) / (in) 46 / 1.8
Exit pupil distance	(mm) / (in)	15 / 0.59	Weight (without battery)	(g) / (oz) 375 / 13.2
Field of view	(m/1000 m) / (ft/1000 yds)	136 / 408	Changeover	Metres/Yards

NC 2: We turn night into day.

The Swarovski Optik NC 2 is a small, lightweight, compact, watertight and dustproof night vision instrument. Equipped with residual light intensification, an automatic electronic cut-off function, over-exposure protection and infrared illumination (if residual light is too weak), it produces clear images even in darkness. Ergonomic features include pleasant-to-handle rubber armouring and comfortable finger depressions. The NC 2 has a choice of objective lenses giving a magnification of 1x or 3x.



Superb for night-time photography. Quick and simple camera connection with the Swarovski Optik camera adapter.



The Swarovski Optik NC 2: Clear images even in the dark.



Objective lens 1x



Objective lens 3x

NC 2

- Supplied with carrying case.
- Accessories available: clamp and camera adapter.
- Other features of the NC 2: tripod connector thread (1/4" and 3/8"), C-mount connector for all standard objective lenses, dioptic correction, eyepiece for spectacle wearers, operation with standard AA batteries, watertight and dustproof, improved high-resolution, second-generation image intensifier, automatic brightness control, very easy to use.

NIGHT SIGHT				
Functional temperature: -20° C/+55° C (-4 to +131° F) • Storage temperature: -40° C/+30° C (-40 to +86° F) • Power source: 2 Mignon Type AA Service life: about 150 hours • Tripod thread: 1/4" and 3/8" • Objective lens connection thread: C-mount • Submersion tightness (body): 4m (13ft)				
NC 2		OBJECTIVE		
NC 2		1x	3x	
Image intensifier tube	2 nd Gen.	Magnification	1x	3x
Light intensification (lm)	15.000	Focal length (mm)/(in)	25 / 1	75 / 3
Exit pupil, diameter (mm)/(in)	9 / 0.3	Aperture ratio	F 1.4	F 1.3
Focal length of ocular (mm)/(in)	25 / 1	Field of view, real (m/100 m) (ft/100 yds)	72 / 216	24 / 72
Dioptic adjustment (dpt)	±5	Shortest focusing distance (m)/(yds)	0.5 / 0.55	1 / 1.1
Length, approx. (mm)/(in)	105 / 4.1	F-number	1.4-C	1.3-C
Width, approx. (mm)/(in)	60 / 2.4	Diameter (mm)/(in)	46 / 1.8	62.5 / 2.5
Height, approx. (mm)/(in)	80 / 3.1	Length (mm)/(in)	28.5 / 1.1	72 / 2.8
Weight, approx. (g)/(oz)	450 / 15.9	Weight, approx. (g)/(oz)	81 / 2.6	376 / 13.3



Inspired by nature –
designed by Swarovski Optik.

Nature is the source of boundless inspiration. Like an irrefutable book of design, nature reveals its laws, its forms, its materials and its colours to us as an infinite variety of ingenious solutions for the perfection of functionality, ergonomics, and aesthetics.

These solutions are the basis for a great many inventions. At the same time, they are the basis for the innovative range of accessories from Swarovski Optik. In this way, for example, the bags in our new collection have gained a whole new dimension as a result of a deep and thorough study of nature.

Out and About with binoculars, telescopes, accessories etc:
Outdoor bags for all occasions.

Who knows better about protecting oneself from the hardest conditions that nature can create than the creatures who live in nature? Animals and plants have adapted themselves so well that they are almost immune to wind and weather, thorns or sharp edges. Whether it is a hardy fur coat, feathers that are impermeable to water, or breathable bark structures – we took the inspiration for our extremely rugged bag collection from nature on more than one occasion. However, the durability of the material that has been specially developed for Swarovski Optik is not the only convincing thing about this collection.



Extremadura

Extremadura

Backpack, approx. 32 L: rugged, medium-sized rucksack for longer periods of carrying on excursions, outings and trips. With specific interior section for safe storage of optical equipment, tripod fastenings included.



- Function:
- Telescope fastening with scuff-resistant support plate made of polymer-reinforced material.
 - Binocular pocket in the upper third.
 - Two tripod fastenings with scuff-resistant support plate made of polymer-reinforced material.
 - Large front pocket for rapid access.
 - Removable seat mat.
- Ergonomics:
- Interior frame and contoured padded back section to fit the individual's back.
 - Back section remains ventilated due to breathable 3D mesh.
 - Contoured non-crease shoulder straps.
 - Wide hip strap.

Shetland

Daypack, approx. 22 L: smaller, expandable rucksack with specific interior section for excursions, outings and trips.



- Function:
- Telescope fastening with scuff-resistant support plate made of polymer-reinforced material.
 - Binocular pocket in the upper third.
 - Large front pocket for rapid access.
 - Volume increased (5 cm width) by means of a concealed large zip fastener that runs around the pack.
- Ergonomics:
- Interior frame and contoured padded back section to fit the individual's back.
 - Back section remains ventilated due to breathable 3D mesh.
 - Contoured non-crease shoulder straps.
 - Detachable hip strap.

Varanger 1

Large tripod bag: tripod carry bag with integrated travel bag. For storage and transport of tripod. Ideal for longer excursions. Unique system for protecting tripod head.



- Function:
- Padded, reinforced case encloses and protects the sensitive tripod head.
 - Underside of bag is protected by scuff-resistant, polymer-reinforced material.
 - Large extra compartment for clothing and accessories.
 - Lockable zip fasteners.
- Ergonomics:
- Broad, detachable carry strap with detachable, non-slip shoulder pad.
 - Padded leather carry handle.

Varanger 2

Tripod bag: tripod bag for storage and transport. Unique tripod head protection system.



- Function:

 - Reinforced, thickly padded bag encloses and protects the tripod head.
 - Foot area with polymer-reinforced fabric.
 - Small extra compartment for clothing and accessories.
 - Lockable zip fasteners.
- Ergonomics:

 - Broad, detachable shoulder strap with detachable non-slip shoulder pad.
 - Padded leather carry handle.

Doñana

Shoulder carry bag: ideal travel companion for day outings or longer trips. Optical instruments (binoculars, etc.) are safely stored and protected. If necessary, the bag can be converted into a rucksack.



- Function:

 - Telescope fastening with detachable padded strap.
 - Mounting for binoculars with non-scuffing support plate made of polymer-reinforced material.
 - Various pockets for accessories.
 - Can be converted into a rucksack.
- Ergonomics:

 - Reinforced and padded throughout.
 - Back section remains ventilated due to breathable 3D mesh.
 - Detachable carry strap with detachable, non-slip shoulder pad.

Pantanal

Carry bag: Strong padded carry bag. Ideal carry-on bag for air travel. Reliable protection of optical instruments (binoculars, etc).



- Function:

 - Telescope fastening with detachable padded strap.
 - Mounting for binoculars with non-scuffing support plate made of polymer-reinforced material.
 - Various pockets for accessories.
- Ergonomics:

 - Padded leather carry handle.
 - Broad, detachable carry strap with detachable, non-slip shoulder pad.

Taimyr

Large field bag: ergonomically padded shoulder bag for transporting binoculars and a bird guide on day trips with little luggage.



- Function:

 - Outer pocket has adjustable opening angle so that it can be used as a book rest.
 - Compartment for bird guide or similar literature.
 - Pocket for binoculars.
 - Small pocket for accessories.
- Ergonomics:

 - Ergonomically designed padded back section.
 - Back section remains ventilated due to breathable 3D mesh.
 - Broad, detachable carry strap with detachable, non-slip shoulder pad.
 - Removable hip strap.

Nakuru

Small field bag: small padded hip or shoulder bag for day trips, excursions, travel, or nature trips.



- Function:

 - Space for binoculars.
 - Compartment for bird guide or similar literature.
 - Pocket for small utensils.
- Ergonomics:

 - Ergonomically designed padded back section.
 - Back section remains ventilated due to breathable 3D mesh.
 - Detachable broad carry strap.
 - Detachable hip strap.



Swarovski Optik Cortec:
A woven material developed especially for Swarovski Optik using Cordura® natural fibres. Innovative webbing technology and extremely dense material processing give particularly good scuff and rip resistance. The material feels soft and natural.



Polymer-Reinforced Fabric:
Rubberised NBR/CR polymer: is used to reinforce all fasteners and support surfaces – stops equipment from slipping, and is extremely scuff-resistant, this prolonging the life of the bags.



Coating:
High-quality multiple polyurethane coatings: remain pliable across a broad range of temperatures, are water resistant, and prevent the seams from tearing.

Swarovski Optik Salute 101 Hip Flask.

A hip flask that is a real innovation.

The Swarovski Optik Salute 101 unites traditional aesthetics with innovative functions in a unique manner. Genuine handmade article, so every individual flask is something really special.

Ergonomics:

- Unthreaded flask neck for comfort when drinking.
- Lightly curved flask – fitted to body anatomy.
- Sits well in the hand when drinking.
- Integrated drinking cup.
- Grip-sure surface made of hard-wearing leather.

Functions:

- Hygienic stopper closure.
- Integrated drinking cup, simultaneously serves to secure the stopper.
- Robust but smooth sliding spring connector for attaching the drinking cup.
- Highly polished stainless steel suitable for foodstuffs.

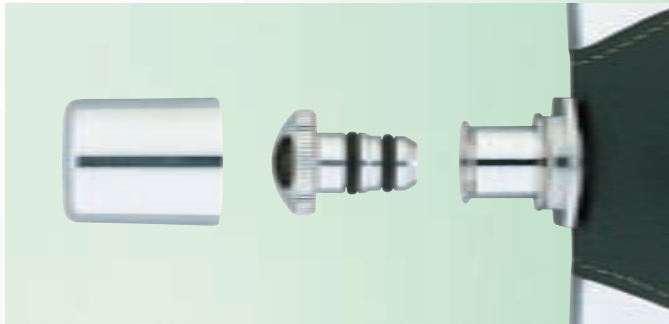


Dimensions:

Capacity: 175ml (6oz), drinking cup: approx. 1 cl,
Width: 90mm (3.5in), Height (incl. drinking cup):
145mm (5.8in), Depth: 25mm (1.0in).



Integrated drinking cup, simultaneously serves to secure the cap.



Hygienic stopper closure.





Swarovski Optik **binocular booster** for all EL and SLC binoculars (except 8x30 WB). Will double the magnification. The Swarovski Optik binocular booster converts the SLC 15x56 WB into a monocular telescope with 30x magnification. Easy to assemble. Simply unscrew one of the two twist-in eyecups and screw on booster.



The Swarovski Optik Binocular Booster gives double monocular magnification. Example: the SLC 15x56 WB converts to 30x magnification.

BINOCULAR-BOOSTER*											
Functional temperature: -25° C/+55° C (-13 to +131° F) • Storage temperature: -30° C/+70° C (-22 to +158° F) • Submersion tightness: 4m (13ft): when mounted to a binocular (filled with nitrogen)											
	EL Binoculars				SLC Binoculars						
	8x32 WB	10x32 WB	8.5x42 WB	10x42 WB	7x42 B	10x42 WB	7x50 B	8x50 B	10x50 WB	8x56 B	15x56 WB
Magnification	16x	20x	17x	20x	14x	20x	14x	16x	20x	16x	30x
Objective lens diameter (mm) (in)	32 1.26	32 1.26	42 1.65	42 1.65	42 1.65	42 1.65	50 1.97	50 1.97	50 1.97	56 2.26	56 2.26
Exit pupil, diameter (mm) (in)	2 0.07	1.6 0.06	2.5 0.10	2.1 0.08	3 0.12	2.1 0.08	3.5 0.14	3.1 0.12	2.5 0.10	3.5 0.14	1.9 0.07
Eye relief (mm) (in)	32 1.26	32 1.26	32 1.26	32 1.26	32 1.26	32 1.26	32 1.26	32 1.26	32 1.26	32 1.26	32 1.26
Field of view, real (m/1000 m) (ft/1000 yds)	36 108	29 87	33 99	29 87	41 123	29 87	41 123	35 105	29 87	36 108	19 57
Field of view, real (degree)	2.0	0.8	1.9	1.6	2.3	1.6	2.3	2	1.6	2.1	1.1
Field of view, apparent (degree)	33	33	33	33	33	33	33	33	33	33	33
Booster* = Length: 115 mm (4.53 in), Diameter: 42 mm (1.65 in), Weight: 175 g (6.17 oz) / individually adjustable twist-in eyecups											



Tripod adapter for Swarovski Optik EL 8.5x42 and EL 10x42. Adapted to suit the special shape of EL binoculars, with integrated tripod plate. For an extremely simple and secure attachment.



Absolutely silent to handle and fully adjustable. The variable **rubber visor cap** keeps out dust and rain. Available for EL and SLC binoculars.

Special eyecups, suitable for all SLC and EL models. Made from non-allergenic material. Prevent entry of distracting ambient light.



Lift carrying strap: extremely comfortable for use around the neck when stalking or hiking. Attaches easily to binoculars. Quick and easy to adjust to desired length.

Bino Suspender for EL and SLC Binoculars. High level of comfort in use. Optimum relief for neck and throat due to dispersal of weight throughout upper body. Equipment itself has low net weight. Snap lock enables rapid detachment of binoculars.



Floating shoulder strap for SLC and EL binoculars. Made from a specially buoyant material, which prevents sinking if binoculars fall into water.

Smart **leather case** for the Swarovski Optik Pocket model. Protective and decorative.



Swarovski Optik Stay-on Cases for ATS/STS 80 and 65: Optimum protection for Swarovski Optik observation telescopes. The Stay-on Cases mould themselves to the instrument, which prevents any chafing or sliding around inside the case. The telescope is perfectly protected against knocks whilst travelling or during hard use in the field, but is still easily removed from its case whenever needed.

Swarovski Optik **clamps** for all Swarovski Optik telescopes. For attaching securely to a post or hide shelf.



Extremely rugged, light weight outdoor **multi-functional textile bag** fitted with vents to prevent mould. Available in four different sizes for Swarovski Optik SLC and EL Models as well as for Pocket models. Protects binoculars from knocks.



Universal Swarovski Optik **adapter for astronomical oculars**. Fits all standard oculars(1 1/4").

Special **tripod plate for the AT/ST telescopes**. For firm seating of the observation telescope on the tripod. Easy to fit.



Swarovski Optik **tree screw** suitable for all Swarovski telescopes. Ideal for stable observation without a tripod.



Sunshades for all Swarovski Optik rifle scopes. Designed to cut out glare and diffuse light in poor light. Except PF 8x56, PV 1.25-4x24, PV 2.5-10x56, AV 3-9x36.

You will find a complete listing of Swarovski Optik product accessories at www.swarovskioptik.com

Service and Information Around The Clock:
www.swarovskioptik.com.

At **www.swarovskioptik.com** you can immerse yourself even deeper into the world of Swarovski Optik and get information about our products, conservation projects, or the company. **www.swarovskioptik.com** is an interactive service tool, which will answer almost all your questions about Swarovski Optik around the clock:

Products

You get a comprehensive overview of all products, detailed descriptions, and 3D animations. A virtual product advisor will help you choose the ideal Swarovski Optik Products for your needs.

Information

In this section you will find all the important information about guarantees, repairs, or replacement parts. Furthermore, you can help us to optimise our products even further by means of a questionnaire.

Dealer Index

Here you can quickly and easily find the Swarovski Optik dealer located nearest to you.

News and Events

Swarovski Optik is present at many events all over the world. Here you can find everything you might wish to know about fairs, trips, etc ... In addition to this, we offer you the opportunity to register for our newsletter.

Conservation Projects

Swarovski Optik is involved in nature conservation all over the world. Avail yourself of a comprehensive overview of all our activities.

About Us


History, philosophy, or job opportunities: this section provides an extensive overview of the company.



Virtual nature experience:
Welcome to I-World.

The Swarovski Optik homepage offers nature lovers not just information about our products and our company, but also additional information about a particularly fascinating world: I-World. I-World is about interactive animation of experiences, opening up surprising discoveries and abstract natural perspectives. Enjoy an impressive experience, journeying through nature within the artificial world of the internet.





Our ultimate aim is for you to use
our products with complete confidence
ensuring that you can enjoy
the wonders of the world in close up.

www.swarovskioptik.com