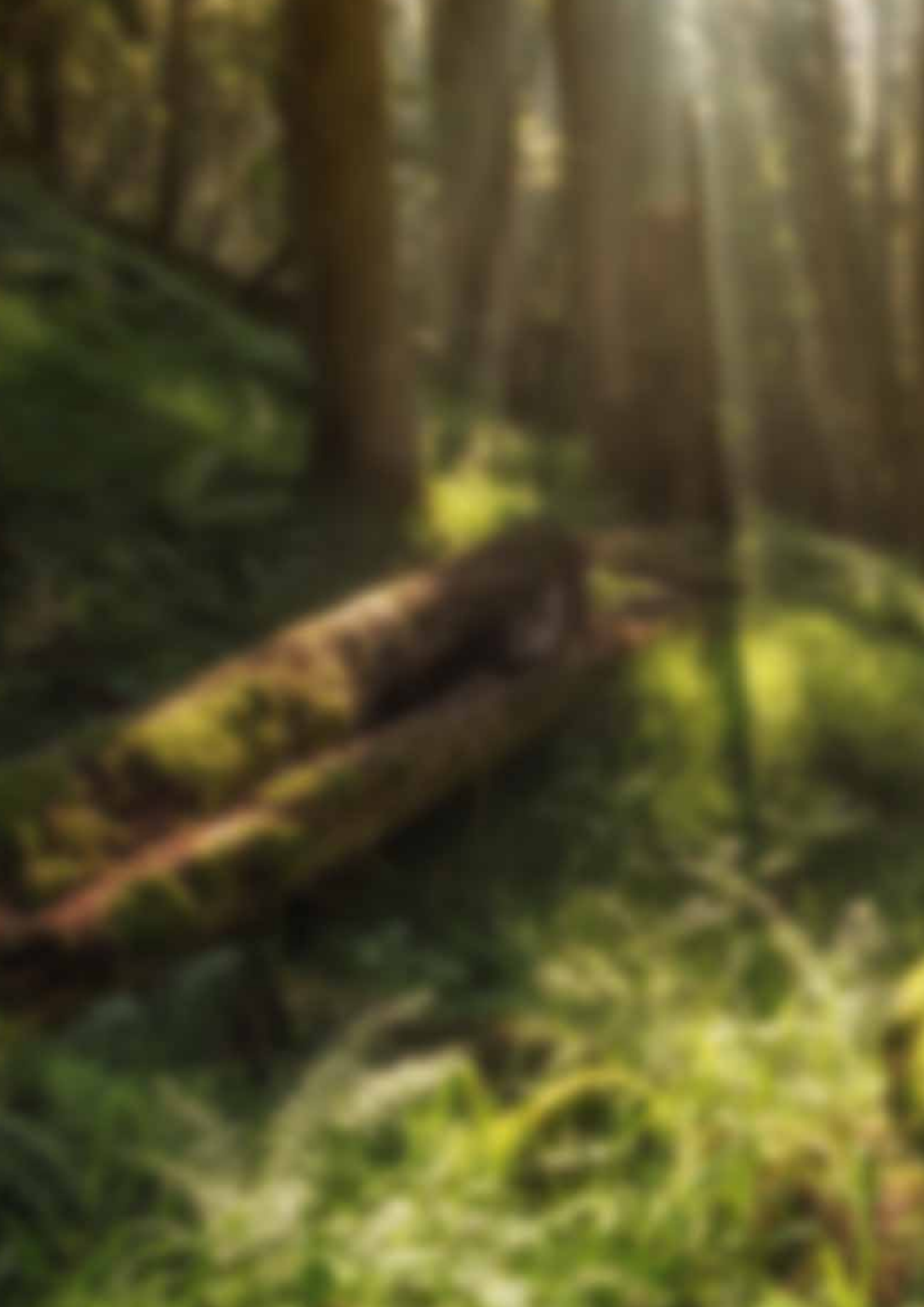




Sport Optics
2022/2023

**OPTICAL
INSTRUMENTS
SINCE 1913**
NUREMBERG/DE



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OPTICAL INSTRUMENTS SINCE 1913

NUREMBERG/DE

1913

On 15 November Josef Eschenbach establishes the company named after himself with the objective of setting up a wholesale business for optical articles and technical drawing instruments.

1990

The Museum of Modern Art in New York awards the „club®“ binoculars – the first binoculars of their kind – a place in its permanent exhibition.

1950

Rudolph Eschenbach demonstrates his global vision: in addition to production in Nuremberg, he was one of the first German companies to import binoculars from the Far East in the 1950s.

1990

The network of established distribution offices in Austria, Switzerland and the USA has been successively increased to 12 today with the objective of providing trade and consumers with optimum service.

2007

Barclays Private Equity is acquiring the Nuremberg-based Eschenbach Group together with the company's management. The previous owner Hannover Finanz and the family of Gerd Eschenbach are surrendering all their shares. The family of Walter Eschenbach will retain its shares in the company.

1999

Hannover Finanz, one of the most prestigious German equity investment companies takes shares in the company. The Eschenbach family hands over operational management to outside managers who also invest in the company.

2009

Tura and Eschenbach Group to merge. Tura has been active on both the U.S. and Canadian markets for more than 70 years as one of the top providers of eyeglass frames and sunglasses.

2014

For more than 15 years, Eschenbach Optik has been market leader for spectacle frames in Germany and one of the leading suppliers in Europe, world market leader for optical vision aids and market leader for long range optics products sold by opticians.



nature





trophy® ED

HIGH PERFORMANCE BINOCULARS WITH AN EXTRA WIDE FIELD OF VIEW – PERFECT FOR ANY OCCASION.

- Extra wide field of view: High quality wide-angle optics ensure greater viewing freedom and maximum observational comfort.
- True colour images with excellent stereoscopic depth: thanks to full multi-coated high performance lenses of special extra-low-dispersion glass.
- High brilliance from phase-corrected BaK-4 prisms with a dielectric mirror coating
- Extremely robust: High quality metal adjustment wheels and an impact-resistant magnalium housing guarantee sustained observation pleasure.
- Weatherproof because watertight and nitrogen filled.
- Spectacle eyepieces afford an optimal field of view even when wearing (sun) glasses.
- Stable tripod thread ensures shake-free viewing pleasure at all times.
- In addition to the 10-year warranty, you benefit from the special Warranty Plus package.
- Accessories: Protective dust caps, comfortable carrying strap with quick-release fastener, high quality carry-case.

trophy® D 8 x 32 ED
Item No. 4232832

trophy® D 10 x 32 ED
Item No. 4232132

Garanie
plus



trophy® ED

HIGH QUALITY WIDE ANGLE OPTICS FOR OBSERVING BIRDS AND WILDLIFE THAT IS "ON THE MOVE".

- Bright, extra-wide field of view: High quality, wide-angle optics in combination with a 42 mm lens diameter ensure optimum viewing freedom even under adverse light conditions.
- High colour accuracy and sharpness of details: The full multi-coated lenses are of special extra-low-dispersion glass that renders extremely detailed images with stereoscopic depth.
- Brilliant, high contrast images thanks to phase-corrected BaK-4 high reflection prisms with a dielectric mirror coating.
- Extremely durable due to impact-resistant magnesium housing and high quality metal wheels.
- Watertight and nitrogen filled.
- Spectacle eyepieces afford an optimal field of view even when wearing (sun) glasses.
- Stable tripod thread ensures shake-free viewing pleasure at all times.
- In addition to the 10-year warranty, you benefit from the special Warranty Plus package.
- Accessories: Protective dust caps, comfortable carrying strap with quick-release fastener, high quality carry-case.

trophy® D 8 x 42 ED
Item No. 4232842

trophy® D 10 x 42 ED
Item No. 4232142

**Garantie
plus**



trophy® ED

BRIGHT IMAGES SHOWING EVERY DETAIL: HUNTER'S BINOCULARS FOR THE DISCERNING DISCOVERER.

- Bright, wide field of view from high quality optics in combination with a large lens diameter of 56 mm.
- Extremely detailed images with stereoscopic depth thanks to full multi-coated lenses of special extra-low-dispersion glass.
- Brilliant, high contrast images thanks to phase-corrected BaK-4 high reflection prisms with a dielectric mirror coating.
- Extremely durable due to impact-resistant magnesium housing and high quality metal wheels.
- Watertight and nitrogen filled.
- Spectacle eyepieces afford an optimal field of view even when wearing (sun) glasses.
- Stable tripod thread ensures shake-free viewing pleasure at all times.
- In addition to the 10-year warranty, you benefit from the special Warranty Plus package.
- Accessories: Protective dust caps, comfortable carrying strap with quick-release fastener, high quality carry-case.

trophy® D 8 x 56 ED
Item No. 4232856

Garantie plus

Technical data trophy® ED series

Optical parameters according to [DIN 58386, 58388](#)

	 8 x 32 ED trophy® D	 10 x 32 ED trophy® D	 8 x 42 ED trophy® D	 10 x 42 ED trophy® D	 8 x 56 ED trophy® D
Item number	4232832	4232132	4232842	4232142	4232856
Magnification	8 x	10 x	8 x	10 x	8 x
Lens Ø (mm)	32	32	42	42	56
Near point (m)	2	2.5	2.5	2.5	3
Field of view m / 1,000 m	136	105	136	108	101
Height x Width x Depth (mm)	125 x 118 x 50	125 x 118 x 50	143 x 125 x 58	143 x 125 x 58	174 x 143 x 67
Weight without bag (g)	535	534	731	710	1100
Nitrogen filled	Yes	Yes	Yes	Yes	Yes
Watertight	Yes	Yes	Yes	Yes	Yes
Spectacle eyepieces	Yes	Yes	Yes	Yes	Yes
Prisms	BaK-4, phase-corrected and dielectric mirror coated	BaK-4, phase-corrected and dielectric mirror coated	BaK-4, phase-corrected and dielectric mirror coated	BaK-4, phase-corrected and dielectric mirror coated	BaK-4, phase-corrected and dielectric mirror coated
Coating	Full multi-coating	Full multi-coating	Full multi-coating	Full multi-coating	Full multi-coating
ED glass	Yes	Yes	Yes	Yes	Yes
Warranty Plus	Yes	Yes	Yes	Yes	Yes
Warranty	10 years	10 years	10 years	10 years	10 years

For further technical data, see page 58



trophy® ED

HANDY BINOCULARS FOR QUICK OBSERVATION
IN ANY WEATHER CONDITIONS.

- Space-saving: With their practical fold-up design, trophy® F binoculars fit easily and quickly in any bag.
- Particularly large field of view due to high quality, wide angle optics
- Very high colour fidelity and exceptional stereoscopic depth due to full multi-coated high performance lenses made from special extra low dispersion glass.
- Phase corrected BaK-4 prisms with dielectric mirror coating
- Extremely robust due to high quality, metal focusing wheels and magnesium housing.
- Full field of view even for wearers of (sun-) glasses through special eyepieces with retractable cups.
- Nitrogen filling prevents misting of the internal optics if the temperature fluctuates.
- Weatherproof due to the watertight housing.
- In addition to the 10-year warranty, you benefit from the special Warranty Plus package.
- Practical accessories: Carrying strap, dust protection caps, belt bag.

trophy® F 8 x 25 ED
Item No. 4267825

trophy® F 10 x 25 ED
Item No. 4267125

**Garantie
plus**

Technical data trophy® series

Optical parameters according to [DIN 58386, 58388](#)

	trophy® F  8 x 25 ED	trophy® F  10 x 25 ED
Item number	4267825	4267125
Magnification	8 x	10 x
Lens Ø (mm)	25	25
Near point (m)	2	3
Field of view m / 1,000 m	144	114
Height x Width x Depth (mm)	102 x 113 x 42	102 x 113 x 42
Weight without bag (g)	330	330
Nitrogen filled	Yes	Yes
Watertight	Yes	Yes
Spectacle wearer eyepieces	Yes	Yes
Prisms	BaK-4, phase-corrected and dielectric mirror coating	BaK-4, phase-corrected and dielectric mirror coating
Coating	Full multi-coating	Full multi-coating
ED glass	Yes	Yes
Warranty Plus	Yes	Yes
Warranty	10 years	10 years

For further technical data, see page 58



trophy® P

HIGH-QUALITY, WIDE-ANGLE OPTICS FOR OBSERVING BIRDS AND WILDLIFE ON THE MOVE.

- Extra wide field of view: High quality wide-angle optics ensure greater viewing freedom and maximum observational comfort.
- Sharp, high-contrast, true-colour images thanks to full multi-coated lenses and BaK-4 prisms.
- Particularly vivid image display due to Porro binocular geometry.
- Innovative design ensures a modern look and optimum handling.
- Weatherproof because watertight.
- Nitrogen filling prevents misting of the internal optics even if the temperature or altitude changes considerably.
- Spectacle eyepieces afford an optimal field of view even when wearing (sun) glasses.
- In addition to the 10-year warranty, you benefit from the special Warranty Plus package.
- Accessories: carrying strap with quick-release fastener, case, protective dust caps.

trophy® P 8 x 42
Item No. 4236842

Garanie
plus



trophy® P

HIGH-QUALITY, WIDE-ANGLE OPTICS FOR OBSERVING BIRDS AND WILDLIFE ON THE MOVE.

- Extra wide field of view: High quality wide-angle optics ensure greater viewing freedom and maximum observational comfort.
- Bright images until dusk falls: These binoculars offer excellent vision even in poor light conditions.
- Sharp, high-contrast, true-colour images thanks to full multi-coated lenses and BaK-4 prisms.
- Particularly vivid image display due to Porro binocular geometry.
- Innovative design ensures a modern look and optimum handling.
- Weatherproof because watertight.
- Nitrogen filling prevents misting of the internal optics even if the temperature or altitude changes considerably.
- Spectacle eyepieces afford an optimal field of view even when wearing (sun) glasses.
- In addition to the 10-year warranty, you benefit from the special Warranty Plus package.
- Accessories: carrying strap with quick-release fastener, case, protective dust caps.

trophy® P 10 x 50
Item No. 4236150

**Garantie
plus**



trophy® P

BRIGHT IMAGES SHOWING EVERY DETAIL:
HUNTING BINOCULARS THAT MEET THE MOST
DEMANDING REQUIREMENTS.




- The particularly bright trophy® P 8 x 56 are the hunting binoculars of the trophy® P Series.
- Sharp, high-contrast, true-colour images thanks to full multi-coated lenses and BaK-4 prisms.
- Bright images until dusk falls: These binoculars offer excellent vision even in poor light conditions.
- Particularly vivid image display due to Porro binocular geometry.
- Innovative design ensures a modern look and optimum handling.
- Weatherproof because watertight.
- Nitrogen filling prevents misting of the internal optics even if the temperature or altitude changes considerably.
- Spectacle eyepieces afford an optimal field of view even when wearing (sun) glasses.
- In addition to the 10-year warranty, you benefit from the special Warranty Plus package.
- Accessories: carrying strap with quick-release fastener, case, protective dust caps.

trophy® P 8 x 56
Item No. 4236856

Garanie
plus

Technical data trophy® series

Optical parameters according to [DIN 58386, 58388](#)

	trophy® P	trophy® P	trophy® P
	 8 x 42	 10 x 50	 8 x 56
Item number	4236842	4236150	4236856
Magnification	8 x	10 x	8 x
Lens Ø (mm)	42	50	56
Near point (m)	5	6	7
Field of view m / 1,000 m	142	114	105
Height x Width x Depth (mm)	136 x 194 x 63	175 x 193 x 65	205 x 202 x 68
Weight without bag (g)	951	1089	1247
Nitrogen filled	Yes	Yes	Yes
Watertight	Yes	Yes	Yes
Spectacle wearer eyepieces	Yes	Yes	Yes
Prisms	BaK-4	BaK-4	BaK-4
Coating	Full multi-coating	Full multi-coating	Full multi-coating
Warranty Plus	Yes	Yes	Yes
Warranty	10 years	10 years	10 years

For further technical data, see page 58



sektor D

LIGHTWEIGHT ALL-ROUNDER FOR SPONTANEOUS NATURE TRIPS.

- Brilliant, true-to-life colour images thanks to phase-corrected BaK-4 prisms and fully multi-coated lenses.
- Functional design combines a modern look with compact form that lies well in the hand for both quick use and prolonged observation. An open bridge makes focusing child's play, even using just one hand.
- Very light: Thanks to the polycarbonate body, the weight of both models is insignificant at merely 353 and 367 grams respectively.
- Durable robust housing with anti-slip rubber coating.
- Can be used in any weather thanks to a waterproof housing and nitrogen filling that prevents misting of the internal optics if the temperature fluctuates.
- Spectacle eyepieces afford an optimal field of view even when wearing (sun) glasses.
- Stable tripod thread ensures shake-free viewing pleasure at all times.
- Dioptre adjustment with reliable "click-locking".
- Accessories: Carrying strap with quick-release fastener, high quality case, practical dust protection caps.

sektor D 8 x 32 compact+
Item No. 4251832

sektor D 10 x 32 compact+
Item No. 4251132



sektor D

TRUE-TO-COLOUR, BRIGHT, COMPACT:
THE IDEAL COMPANION FOR BIRDWATCHING.

- Brilliant, true-to-life colour images due to phase-corrected BaK-4 prisms and fully multi-coated lenses.
- A modern look and graspable shape are united in a design that fits in the hand well for both quick use and prolonged observation. Focusing with one hand is child's play with the open bridge.
- Extremely robust: Both models are durable and shock resistant thanks to a magnesium body.
- Well equipped for any weather thanks to a waterproof housing and nitrogen filling that prevents misting of the internal optics if the temperature fluctuates.
- Spectacle eyepieces afford an optimal field of view even when wearing (sun) glasses.
- Stable tripod thread ensures shake-free viewing pleasure at all times.
- Dioptre adjustment with reliable "click-locking"
- Accessories: Carrying strap with quick-release fastener, high quality case, practical dust protection caps.

sektor D 8 x 42 compact+
Item No. 4251842

sektor D 10 x 42 compact+
Item No. 4251142



sektor D

AT ONLY 1,038 GRAMS ONE OF THE LIGHTEST HUNTER'S BINOCULARS ON THE MARKET.

- Best brightness: With a lens diameter of 56 mm is ideally suited for hunting.
- Brilliant, true-to-life colour images thanks to phase-corrected BaK-4 prisms and fully multi-coated lenses.
- A design that unites a modern look, graspable shape and optimal weight of 1,038 grams, and also lies well in the hand for prolonged observation. The open bridge makes focusing easy.
- Extremely robust: Extremely robust and shock resistant thanks to the magnesium body.
- Equipped for any weather thanks to a waterproof housing and nitrogen filling that prevents misting of the internal optics if the temperature fluctuates.
- Spectacle eyepieces afford an optimal field of view even when wearing (sun) glasses.
- Dioptre adjustment with reliable "click-locking"
- Accessories: Carrying strap with quick-release fastener, high quality case, practical dust protection caps.

sektor D 8 x 56 compact+
Item No. 4251856

Technical data sektor D series

Optical parameters according to [DIN 58386, 58388](#)

	sektor D  8 x 32 compact+	sektor D  10 x 32 compact+	sektor D  8 x 42 compact+	sektor D  10 x 42 compact+	sektor D  8 x 56 compact+
Item number	4251832	4251132	4251842	4251142	4251856
Magnification	8 x	10 x	8 x	10 x	8 x
Lens Ø (mm)	32	32	42	42	56
Near point (m)	1	1	2	2	1.8
Field of view m / 1,000 m	115	98	119	87	114
Height x Width x Depth (mm)	109 x 116 x 42	109 x 116 x 42	135 x 129 x 51	135 x 129 x 51	176 x 141 x 65
Weight without bag (g)	353	367	600	634	1038
Nitrogen filled	Yes	Yes	Yes	Yes	Yes
Watertight	Yes	Yes	Yes	Yes	Yes
Spectacle wearer eyepieces	Yes	Yes	Yes	Yes	Yes
Prisms	BaK-4, phase-corrected	BaK-4, phase-corrected	BaK-4, phase-corrected	BaK-4, phase-corrected	BaK-4, phase-corrected
Coating	Full multi-coating	Full multi-coating	Full multi-coating	Full multi-coating	Full multi-coating
Warranty	5 years	5 years	5 years	5 years	5 years

For further technical data, see page 59



sektor F

HIGH PERFORMANCE, SMALL SIZE – FOLDING BINOCULARS FOR OBSERVERS OF WILDLIFE AND NATURE.



- Small and handy: These compact fold-up binoculars will fit into any travel bag.
- Wide field of view: Wide-angle optics facilitate observation of moving objects.
- Optimal colour accuracy and very sharp images thanks to phase-corrected BaK-4 prisms and fully multi-coated lenses.
- Lightweight: At only 292 and 296 grams respectively, ideal for lightweight travel bags.
- Weatherproof thanks to a waterproof housing and nitrogen filling that prevents misting of the internal optics if the temperature fluctuates.
- Accessories: Carrying strap, high quality case, practical dust protection caps.

sektor F 8 x 25 compact+
Item No. 4268825

sektor F 10 x 25 compact+
Item No. 4268125

Technical data sektor F series

Optical parameters according to [DIN 58386, 58388](#)

	 sektor F 8 x 25 compact*	 sektor F 10 x 25 compact*
Item number	4268825	4268125
Magnification	8 x	10 x
Lens Ø (mm)	25	25
Near point (m)	2.5	3
Field of view m / 1,000 m	143	114
Height x Width x Depth (mm)	102 x 110 x 40	102 x 110 x 40
Weight without bag (g)	296	292
Nitrogen filled	Yes	Yes
Watertight	Yes	Yes
Spectacle wearer eyepieces	Yes	Yes
Prisms	BaK-4, phase-corrected	BaK-4, phase-corrected
Coating	Full multi-coating	Full multi-coating
Warranty	5 years	5 years

For further technical data, see page 59



Spotting scope arena® S

THE RELIABLE COMPANION FOR NEWCOMERS
TO BIRD AND NATURE WATCHING.

- Bright, true-to-life image due to high-quality BaK-4 prisms and full multi-coated lenses.
- Excellent value-for-money ratio.
- Weatherproof because watertight.
- Nitrogen filling prevents misting of the internal optics if the temperature fluctuates.
- Relaxed viewing with 45° angled eyepiece.
- Spectacle eyepiece affords an optimal field of view even when wearing (sun) glasses.
- Exceptional and distinctive spotting scope design.
- For spontaneous long-distance observation: Spotting scope is easy to mount on the car window.
- Compact design and carrying case included make transportation easy.
- Accessories: Table-top tripod, carrying case, convenient dust protection caps.

arena® S 20–60 x 60
Item No. 46312

Technical data Spotting scopes

Optical parameters according to [DIN 58386, 58388](#)

arena® S



20-60 x 60

Item number	46312
Magnification	20-60
Lens Ø (mm)	60
Near point (m)	6
Field of view m / 1,000 m	34-16
Height x Width x Depth (mm)	145 x 80 x 350
Weight without bag (g)	949
Nitrogen filled	Yes
Watertight	Yes
Spectacle eyepieces	Yes
Prisms	BaK-4
Coating	Full multi-coating
Warranty	5 years

For further technical data, see page 60



allround





adventure D

COMPACT ALL-ROUNDER FOR THE PERFECT
LEISURE ADVENTURE.

- Durable housing with non-slip rubber reinforcement protects optimally against knocks and dropping.
- Brilliant, true colour images due to full multi-coated lenses and BaK-4 prisms.
- A slim, ergonomic shape guarantees optimum grip.
- Low weight of just 270 or 282 grams.
- Weatherproof because watertight.
- Nitrogen filling prevents misting of the internal optics even if the temperature or altitude changes considerably.
- Spectacle eyepieces afford an optimal field of view even when wearing (sun) glasses.
- Stable tripod thread ensures shake-free viewing pleasure at all times.
- Accessories: Padded carrying strap, dust protection caps, high-quality carrying bag.

adventure D 8 x 26
Item No. 4276826

adventure D 10 x 26
Item No. 4276126



adventure D

THE IDEAL COMPANION FOR CAREFREE DISCOVERY TOURS.

- Wide-angle optics ensure an exceptionally wide field of view.
- Durable housing with non-slip rubber reinforcement protects optimally against knocks and dropping.
- Brilliant, true colour images due to full multi-coated lenses and BaK-4 prisms.
- A slim, ergonomic shape guarantees optimum grip.
- Well-equipped for all weathers thanks to its waterproof housing and nitrogen filling which prevents fogging of the inner optics when the temperature changes.
- Spectacle eyepieces afford an optimal field of view even when wearing (sun) glasses.
- Stable tripod thread ensures shake-free viewing pleasure at all times.
- Accessories: Padded carrying strap, dust protection caps, high-quality carrying bag.

adventure D 8 x 34
Item No. 4276834

adventure D 10 x 34
Item No. 4276134



adventure D

WIDE-ANGLE BINOCULARS FOR UNADULTERATED OUTDOOR ACTION.

- Wide-angle optics ensure an exceptionally wide field of view.
- Durable housing with non-slip rubber reinforcement protects optimally against knocks and dropping.
- Brilliant, true colour images due to full multi-coated lenses and BaK-4 prisms.
- Exceptionally bright images thanks to a 42 mm diameter lens.
- A slim, ergonomic shape guarantees optimum grip.
- Weatherproof because watertight.
- Nitrogen filling prevents misting of the internal optics even if the temperature or altitude changes considerably.
- Spectacle eyepieces afford an optimal field of view even when wearing (sun) glasses.
- Stable tripod thread ensures shake-free viewing pleasure at all times.
- Accessories: Padded carrying strap, dust protection caps, high-quality carrying bag.

adventure D 8 x 42
Item No. 4276842

adventure D 10 x 42
Item No. 4276142



adventure M








LIGHTWEIGHT, ROBUST MONOCULAR FOR ACTIVE OUTDOOR FANS.

- Brilliant, true colour image reproduction thanks to full multi-coated lenses and BaK-4 prisms.
- Extremely robust housing with a special rubber casing protects optimally against knocks and dropping.
- Ergonomic form ensures optimum grip and gives these binoculars an attractive, adventurous look.
- Low weight of just 160 grams.
- Weatherproof because watertight.
- Nitrogen filling prevents misting of the internal optics even if the temperature or altitude changes considerably.
- Spectacle eyepiece affords an optimal field of view even when wearing (sun) glasses.
- Practical accessories: Carrying cord, dust protection caps, belt bag.

adventure M 8 x 25
Item No. 42968251

Technical data adventure series

Optical parameters according to [DIN 58386](#), [58388](#)

	adventure D  8 x 26	adventure D  10 x 26	adventure D  8 x 34	adventure D  10 x 34	adventure D  8 x 42	adventure D  10 x 42	adventure M  8 x 25
Item number	4276826	4276126	4276834	4276134	4276842	4276142	42968251
Magnification	8 x	10 x	8 x	10 x	8 x	10 x	8 x
Lens Ø (mm)	26	26	34	34	42	42	25
Near point (m)	3	3	2.5	2.5	2.5	2.5	2
Field of view m / 1,000 m	120	98	124	105	124	106	114
Height x Width x Depth (mm)	114 x 114 x 39	114 x 114 x 39	130 x 124 x 43	130 x 124 x 43	144 x 133 x 47	144 x 133 x 47	116 x 45 x 41
Weight without bag (g)	282	270	429	419	582	563	160
Nitrogen filled	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Watertight	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Spectacle eyepieces	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Prisms	BaK-4	BaK-4	BaK-4	BaK-4	BaK-4	BaK-4	BaK-4
Coating	Full multi-coating	Full multi-coating	Full multi-coating	Full multi-coating	Full multi-coating	Full multi-coating	Full multi-coating
Warranty	5 years	5 years	5 years	5 years	5 years	5 years	5 years

For further technical data, see page 59



arena[®] D⁺

DEPENDABLE COMPANION FOR NEWCOMERS TO BIRD AND WILDLIFE OBSERVATION.

- Bright, true-to-life images thanks to high quality BaK-4 prisms whose light transmitting capacity is further increased by silvering. A coincident reduction in harmful UV radiation ensures eye-friendly joy of discovery at all times.
- Absolutely watertight and thus suitable for any kind of weather.
- Nitrogen filling prevents misting of the internal optics if the temperature fluctuates.
- Spectacle eyepieces afford an optimal field of view even when wearing (sun) glasses.
- Stable tripod thread ensures shake-free viewing pleasure at all times.
- Accessories: Comfortable carrying strap, bag, protective dust caps.

arena[®] D⁺ 8 x 32
Item No. 4254832

arena[®] D⁺ 8 x 42
Item No. 4254842



arena[®] D⁺


POWERFUL STARTER MODEL FOR
AN UNSPOILT FAR VIEW OF NATURE.

- High image quality thanks to top quality BaK-4 prisms.
- Exceptionally bright due to a 50 mm diameter lens and additional silvering of the prisms thereby increases their light transmitting capacity.
- Eye-friendly observation since the silvering coincidentally reduces harmful UV radiation .
- Absolutely watertight and thus suitable for any kind of weather.
- Nitrogen filling prevents misting of the internal optics if the temperature fluctuates.
- Spectacle eyepieces afford an optimal field of view even when wearing (sun) glasses.
- Accessories: Comfortable carrying strap, bag, protective dust caps.

arena[®] D⁺ 10 x 50
Item No. 4254150

Technical data arena[®] D⁺ series

Optical parameters according to [DIN 58386](#), 58388

	arena [®] D ⁺  8 x 32	arena [®] D ⁺  8 x 42	arena [®] D ⁺  10 x 50
Item number	4254832	4254842	4254150
Magnification	8 x	8 x	10 x
Lens Ø (mm)	32	42	50
Near point (m)	3	3	3
Field of view m / 1,000 m	122	107	94
Height x Width x Depth (mm)	125 x 128 x 50	153 x 138 x 54	172 x 146 x 60
Weight without bag (g)	489	619	790
Nitrogen filled	Yes	Yes	Yes
Watertight	Yes	Yes	Yes
Spectacle eyepieces	Yes	Yes	Yes
Prisms	BaK-4	BaK-4	BaK-4
Coating	Full multi-coating	Full multi-coating	Full multi-coating
Warranty	5 years	5 years	5 years

For further technical data, see page 60



arena® F+

COMPACT COMPANION FOR RAMBLERS AND
NEWCOMERS TO NATURE OBSERVATION.



- Space-saving: Thanks to their practical fold-up design, the arena® F+ binoculars will fit in any rucksack or trouser pocket.
- Brilliant, true colour images due to BaK-4 prisms and full multi-coating.
- Extremely easy to handle: Compact form and anti-slip rubber coating allow both models to lie comfortably and securely in the hand.
- Nitrogen filling prevents misting of the internal optics if the temperature fluctuates.
- Weatherproof due to the watertight housing.
- Spectacle eyepieces afford an optimal field of view even when wearing (sun) glasses.
- Practical accessories: Belt case and carrying strap.

arena® F+ 8 x 25
Item No. 4256825

arena® F+ 10 x 25
Item No. 4256125

Technical data arena[®] F+ series

Optical parameters according to [DIN 58386, 58388](#)

	arena [®] F+  8 x 25	arena [®] F+  10 x 25
Item number	4256825	4256125
Magnification	8 x	10 x
Lens Ø (mm)	25	25
Near point (m)	6	6
Field of view m / 1,000 m	124/1000	101/1000
Height x Width x Depth (mm)	104 x 113 x 43	104 x 113 x 43
Weight without bag (g)	300	300
Nitrogen filled	Yes	Yes
Watertight	Yes	Yes
Spectacle eyepieces	Yes	Yes
Prisms	BaK-4	BaK-4
Coating	Full multi-coating	Full multi-coating
Warranty	5 years	5 years

For further technical data, see page 60



microlux

THE PERFECT MONOCULAR FOR DEVOUT MINIMALISTS.

- Easy to use: Pressing gently with the finger slides the lens unit out into the viewing position.
- Small size: Can be stowed in any bag quickly and easily thanks to its small size.
- The microlux has many uses and is the ideal companion for viewing nature or visits to the theatre or museum.
- microlux 4x13: Ideal for use as a pocket magnifier with about 3x magnification by simply turning it round.
- Accessories: Carrying cord and bag.

microlux 4 x 13
Item No. 4294413

microlux 6 x 18
Item No. 4294618



club® M

REMARKABLE IN TECHNOLOGY AND DESIGN.

- Intuitive slide focus enables easy operation – trouble-free with just one hand.
- The rectangular panoramic field of view is a real treat.
- Excellent image quality from top-notch optics with full magenta coating.
- A short near point allows observations from a distance of 1.5 m and 2 m respectively.
- Elegant, discreet look thanks to the black rubber casing that also makes the club® M easy to grip.
- Accessories: Carrying cord and bag.

club® M 6 x 16
Item No. 4293616

club® M 8 x 16
Item No. 4293816

Technical data Monoculars

Optical parameters according to [DIN 58386, 58388](#)

	microlux	microlux	club® M	club® M
				
	4 x 13	6 x 18	6 x 16	8 x 16
Item number	4294413	4294618	4293616	4293816
Magnification	4 x	6 x	6 x	8 x
Lens Ø (mm)	13	18	16	16
Near point (m)	2	2	1.5	2
Field of view m / 1,000 m	225	142	140	122
Height x Width x Depth (mm)	41 x 27 x 49	46 x 28 x 81	26 x 37 x 84	26 x 37 x 84
Weight without bag (g)	46	78	65	65
Nitrogen filled	No	No	No	No
Watertight	No	No	No	No
Spectacle eyepieces	No	No	No	No
Prisms	BK-7	BK-7	BK-7	BK-7
Coating	Full magenta coating	Full magenta coating	Full magenta coating	Full magenta coating
Warranty	5 years	5 years	5 years	5 years

For further technical data, see page 58 and 60



lifestyle





regatta®

STYLISH ELEGANT BINOCULARS FOR DEMANDING INDIVIDUALISTS.

- Optimal colour accuracy: The special "naturebright" coating ensures exceptional true colour, bright and high contrast image reproduction.
- Perfect brilliance: Thanks to phase-corrected high quality BaK-4/BK-7 prisms, the regatta® 8 x 42 B offers an optimal viewing experience with excellent resolving capacity.
- Unusual design makes these binoculars a real eye-catcher.
- Weatherproof at all times because watertight and nitrogen filled.
- Robust and lightweight due to the impact resistant magnesium body.
- Stable tripod thread ensures shake-free viewing pleasure at all times.
- Accessories: Protective dust caps, padded carrying strap, watertight neoprene bag.

regatta® 8 x 42
Item No. 4250842

Garantie plus

 naturebright



red dot

Technical data regatta®

Optical parameters according to DIN 58386, 58388

regatta®



8 x 42

Item number	4250842
Magnification	8 x
Lens Ø (mm)	42
Near point (m)	2,5
Field of view m / 1,000 m	113
Height x Width x Depth (mm)	161 x 135 x 57
Weight without bag (g)	714
Nitrogen filled	Yes
Watertight	Yes
Spectacle eyepieces	Yes
Prisms	BaK-4, BK-7, phase-corrected high reflection prisms
Coating	High transmission multi-coating, "naturebright"
Warranty Plus	Yes
Warranty	10 years

For further technical data, see page 60



club[®]

TIMELESS DESIGN AND COMPACT FORMAT:
THE PERFECT COMPANION FOR ANY OCCASION.



- Ideal lifestyle binoculars for leisure, travel, sport and the theatre.
- Timeless design: As a successor to the classic award-winning Eschenbach binoculars on show at New York's Museum of Modern Art, the club[®] appears in elegant black with precious metal detailing.
- Excellent image quality thanks to phase-corrected BaK-4 prisms and fully multi-coated lenses.
- Easy to handle and lightweight: Owing to their compactness and light weight, they will fit in any shirt or jacket pocket.
- Watertight and nitrogen filled.
- Spectacle eyepieces afford an optimal field of view even when wearing (sun) glasses.
- Accessories: high quality leather case, carrying strap, dust protection caps.

club[®] 8 x 20
Item No. 4264820

club[®] 10 x 25
Item No. 4264125

Technical data club®

Optical parameters according to [DIN 58386, 58388](#)

	club®  8 x 20	club®  10 x 25
Item number	4264820	4264125
Magnification	8 x	10 x
Lens Ø (mm)	20	25
Near point (m)	1.6	2.5
Field of view m / 1,000 m	119	95
Height x Width x Depth (mm)	96 x 105 x 42	118 x 105 x 42
Weight without bag (g)	220	230
Nitrogen filled	Yes	Yes
Watertight	Yes	Yes
Spectacle eyepieces	Yes	Yes
Prisms	BaK-4, phase-corrected	BaK-4, phase-corrected
Coating	Full multi-coating	Full multi-coating
Warranty	5 years	5 years

For further technical data, see page 58



culture





viva

FESTIVAL GLASSES FOR FANS OF
MUSIC AND CULTURAL EVENTS.

- Modern look thanks to an elegant design and high quality piano varnish in black.
- Small, light and handy
- Incredibly easy to use for a perfect view of the stage.
- Accessories: Hand strap and flat belt bag.

viva
Item No. 841626151

viva
Item No. 841626152

Technical data viva

Optical parameters according to [DIN 58386](#), 58388

	viva	viva
		
Item number	841626151	841626152
Magnification	6 x	6 x
Lens Ø (mm)	15	15
Near point (m)	2	2
Field of view m / 1,000 m	153	153
Height x Width x Depth (mm)	98 x 102 x 32	98 x 102 x 32
Weight without bag (g)	158	158
Nitrogen filled	No	No
Watertight	No	No
Spectacle eyepieces	No	No
Prisms	BK-7	BK-7
Coating	Full magenta coating	Full magenta coating
Warranty	-	-

For further technical data, see page 60



glamour

HIGH QUALITY OPERA GLASSES OF CLASSIC DESIGN.

- Classic design – ideal for a stylish visit to the opera, theatre, concert, cabaret or musical.
- Clear, bright images thanks to high quality lenses with a diameter of 25 mm.
- Smooth focussing knob guarantees fast and easy operation.
- Accessories: black imitation leather case.

Opera glasses with chain
black-gold
Item No. 44691

Also available: Black and gold opera glasses with a chain in cord design. An embellishment for any visit to the theatre, musical or opera. Chain is not detachable. Incl. case.

Technical data Opera glasses

Optical parameters according to [DIN 58386, 58388](#)

	glamour	glamour	glamour	glamour	glamour
					
Item number	44431	44411	44441	44421	44691
Magnification	3 x	3 x	3 x	3 x	3 x
Lens Ø (mm)	25	25	25	25	25
Weight without bag (g)	154	154	154	154	154
Colour	Shimmering pearl white	Gleaming night blue	Brilliant pearl gold	Burgundy red effect finish	Black-gold

magno[®]/accessories





magno® X

TRENDY BINOCULARS FOR LEISURE USE.

- BK-7 prisms and multi-coating ensure sharp, true-colour images.
- Very small, light and handy – suitable for a spontaneous nature getaway, holiday or city break.
- Its compact, striking design makes the magno® X an ideal companion for every occasion.
- Spectacle eyepieces afford an optimal field of view even when wearing (sun) glasses.
- Attractively priced binoculars for a broad target group.
- Accessories: case und carrying cord.

magno® X 8 x 21
Item No. 84177821



magno® X
Sales display
Item No. 841776

Contents: 6 x 84177821

Technical data magno® series

Optical parameters according to [DIN 58386, 58388](#)

magno® X



8 x 21

Item number	84177821
Magnification	8 x
Lens Ø (mm)	21
Near point (m)	2.5
Field of view m / 1,000 m	105
Height x Width x Depth (mm)	95 x 105 x 35
Weight without bag (g)	180
Nitrogen filled	No
Watertight	No
Spectacle eyepieces	Yes
Prisms	BK-7
Coating	Multi-coating
Warranty	-

For further technical data, see page 60



Carrying strap

UNIVERSAL CARRYING STRAP FOR
ALL BINOCULAR SERIES.

- Comfort carrying strap made of particularly soft neoprene
- With practical buckle for quick attachment and detachment.

Carrying strap
Item No. 419980

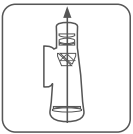
Technical information

The different ranges and models of Eschenbach Optik binoculars are optimised in design, components and construction for different fields of use. The technical data provides precise details about this. But what lies behind the information given? The key technical terms are briefly explained here.



Porro prisms

The "conventional" prisms: Binoculars with Porro prisms are normally wider than comparable roof prism binoculars, but not as long. Owing to their wider-spaced objective lenses, conventional Porro binoculars offer slightly better stereoscopic depth perception at short distances than roof prism equivalents.



Roof prisms

These are very compact and therefore allow the binoculars to be built very slim in form. A higher level of optical precision engineering is required than for Porro binoculars of comparable quality.

BK-7 prisms

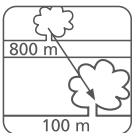
These prisms made from boron crown glass are the standard for a good quality image.

BaK-4 prisms

These carefully machined high performance prisms made from barium crown glass provide even better resolution of details and very sharp, bright images with high colour fidelity.

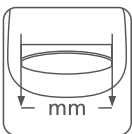
SK15 prisms

These prisms are made from high quality SK15 glass. They minimise unwanted internal reflections and provide razor-sharp images with optimum contrast.



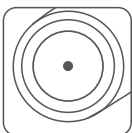
Magnification

The value gives the apparent magnification that the lens produces. With an 8x magnification the object appears 8 times closer to the viewer than in reality. Here, an object appears to be only 100 m away when in fact it is at a distance of 800 m.



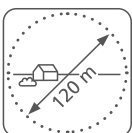
Lens diameter

This is an important performance figure of binoculars since its size crucially determines the light-gathering power: The bigger the lens, the more light that reaches the eye and the brighter the image. The objective lens diameter is stated in mm.



Exit pupil/Brightness index/Twilight factor

These are arithmetic values that result from the ratio of magnification and lens diameter. Important in practice: an exit pupil between 2 and 3 mm is sufficient for use in daylight. Binoculars with an exit pupil of 5-7 mm should be chosen for difficult light conditions.



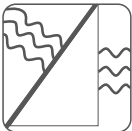
Field of view

Specifies the width of terrain seen through the binoculars at a distance of 1,000 m. The greater the field of view, the easier it is to view landscapes or moving objects, such as animals or competitors at sports events. Binoculars with wide-angle optics (with the designation: Ww) have a particularly wide field of view.



Near point

This number indicates the shortest distance at which objects can be seen sharply and without distortion. This number is important when buying binoculars for use in museums or outings where viewing is at short range.

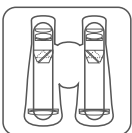


Phase correction

This particularly elaborate application of special surface coatings to the prisms of roof prism binoculars is the ultimate for outstanding image quality.

Dielectric mirror coating

A dielectric mirror coating inside the prism system allows almost 100% reflection of the incident light and prevents the coatings from ageing. This coating ensures contours always remain distinct and clearly discernible even in poor light conditions or during the twilight hours.



Internal focusing

Focusing means adjusting the sharpness of an image. Only the lenses inside the binoculars are moved during internal focusing. This closed system prevents dust, air or moisture from being drawn in.

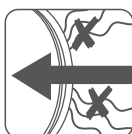


Waterproof

This term refers to a system of water repellent features on the casing and moveable parts that makes the binoculars resistant to pressured water.

Nitrogen filled

In contrast to air, nitrogen contains no residual moisture and so prevents the internal optics from misting up if the ambient temperature fluctuates.

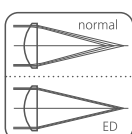


Coating

Eschenbach binoculars have fully multi-coated optics. This means that all glass-to-air surfaces have an extremely thin anti-reflection coating to optimise "light movement" through the binoculars to the eyes. A magnesium fluoride coating (magenta coating) is the standard. On some binoculars this is combined with multi-coating on one side of the lens and eyepiece to improve light transmission. For the highest vision requirements though, multi-coating is applied to all lens surfaces.



To ensure true-to-life, completely colour accurate images, Eschenbach applies a "naturebright" coating to its farlux® and regatta® binoculars .



Extra-low-dispersion (ED) glass

This expensive to produce glass compensates for chromatic aberration that normally occurs due to the differing dispersion of the light-beam colour components and is seen as colour fringing along edges and at transitions. ED glass ensures vivid true colour images, extremely rich in detail and with a sense of depth.

















Warranty Plus








Eschenbach Optik guarantees a relaxed and pleasurable observing experience with a 2 year warranty from date of purchase for selected binoculars. During this period your product will be protected from breakage, burglary and theft, and replaced free of charge.








Technical data

Optical parameters according to DIN 58386, 58388

	 trophy® D 8 x 32 ED	 trophy® D 10 x 32 ED	 trophy® D 8 x 42 ED	 trophy® D 10 x 42 ED	 trophy® D 8 x 56 ED	 trophy® F 8 x 25 ED	 trophy® F 10 x 25 ED
Item number	4232832	4232132	4232842	4232142	4232856	4267825	4267125
Magnification	8 x	10 x	8 x	10 x	8 x	8 x	10 x
Lens Ø (mm)	32	32	42	42	56	25	25
Exit pupil (mm)	4.0	3.2	5.3	4.2	7.0	3.1	2.5
Geometric light intensity	16.0	10.2	27.6	17.6	49.0	9.8	6.3
Twilight factor	16.0	17.9	18.3	20.5	21.2	14.1	15.8
Eye relief (mm)	16	14	17	15	18	11	11
Pupillary distance min./max. (mm)	54/74	54/74	54/74	54/74	59/74	35/75	35/75
Near point (m)	2	2.5	2.5	2.5	3	2	3
Field of view m / 1,000 m	136	105	136	108	101	144	114
Height x Width x Depth (mm)	125 x 118 x 50	125 x 118 x 50	143 x 125 x 58	143 x 125 x 58	174 x 143 x 67	102 x 113 x 42	102 x 113 x 42
Weight without bag (g)	535	534	731	710	1100	330	330
Nitrogen filled	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Waterproof	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Eyepieces for spectacle wearers	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Prisms	BaK-4, phase-corrected and dielectric mirror coated	BaK-4, phase-corrected and dielectric mirror coated	BaK-4, phase-corrected and dielectric mirror coated	BaK-4, phase-corrected and dielectric mirror coated	BaK-4, phase-corrected and dielectric mirror coated	BaK-4, phase-corrected and dielectric mirror coated	BaK-4, phase-corrected and dielectric mirror coated
Coating	Full multi-coating	Full multi-coating	Full multi-coating	Full multi-coating	Full multi-coating	Full multi-coating	Full multi-coating
Warranty Plus	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Warranty	10 years	10 years	10 years	10 years	10 years	10 years	10 years
Page	8	8	9	9	10	12	12







	 trophy® P 8 x 42	 trophy® P 10 x 50	 trophy® P 8 x 56	 club® M 6 x 16	 club® M 8 x 16	 club® 8 x 20	 club® 10 x 25
Item number	4236842	4236150	4236856	4293616	4293816	4264820	4264125
Magnification	8 x	10 x	8 x	6 x	8 x	8 x	10 x
Lens Ø (mm)	42	50	56	16	16	20	25
Exit pupil (mm)	5.3	5.0	7.0	2.7	2.0	2.5	2.5
Geometric light intensity	27.6	25.0	49.0	7.1	4.0	6.25	6.25
Twilight factor	18.3	22.4	21.2	9.8	11.3	12.6	15.8
Eye relief (mm)	20	20	24	-	-	16	16
Pupillary distance min./max. (mm)	53/74	53/74	53/74	Mono	Mono	56/74	56/74
Near point (m)	5	6	7	1.5	2	1.6	2.5
Field of view m / 1,000 m	142	114	105	140	122	119	95
Height x Width x Depth (mm)	136 x 194 x 63	175 x 193 x 65	205 x 202 x 68	26 x 37 x 84	26 x 37 x 84	96 x 105 x 42	118 x 105 x 42
Weight without bag (g)	951	1089	1247	65	65	220	230
Nitrogen filled	Yes	Yes	Yes	No	No	Yes	Yes
Waterproof	Yes	Yes	Yes	No	No	Yes	Yes
Eyepieces for spectacle wearers	Yes	Yes	Yes	No	No	Yes	Yes
Prisms	BaK-4	BaK-4	BaK-4	BK-7	BK-7	BaK-4, phase-corrected	BaK-4, phase-corrected
Coating	Full multi-coating	Full multi-coating	Full multi-coating	Full magenta coating	Full magenta coating	Full multi-coating	Full multi-coating
Warranty Plus	Yes	Yes	Yes	-	-	-	-
Warranty	10 years	10 years	10 years	5 years	5 years	5 years	5 years
Page	14	15	16	38	38	44	44







	 sektor D 8 x 32 compact*	 sektor D 10 x 32 compact*	 sektor D 8 x 42 compact*	 sektor D 10 x 42 compact*	 sektor D 8 x 56 compact*	 sektor F 8 x 25 compact*	 sektor F 10 x 25 compact*
Item number	4251832	4251132	4251842	4251142	4251856	4268825	4268125
Magnification	8 x	10 x	8 x	10 x	8 x	8 x	10 x
Lens Ø (mm)	32	32	42	42	56	25	25
Exit pupil (mm)	4.0	3.2	5.3	4.2	7.0	3.1	2.5
Geometric light intensity	16.0	10.2	27.6	17.6	49.0	9.8	6.3
Twilight factor	16.0	17.9	18.3	20.5	21.2	14.1	15.8
Eye relief (mm)	17	18	17	19	22	11	11
Pupillary distance min./max. (mm)	56/74	56/74	56/79	56/79	65/74	35/75	35/75
Near point (m)	1	1	2	2	1.8	2.5	3
Field of view m / 1,000 m	115	98	119	87	114	143	114
Height x Width x Depth (mm)	109 x 116 x 42	109 x 116 x 42	135 x 129 x 51	135 x 129 x 51	176 x 141 x 65	102 x 110 x 40	102 x 110 x 40
Weight without bag (g)	353	367	600	634	1038	296	292
Nitrogen filled	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Waterproof	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Eyeieces for spectacle wearers	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Prisms	BaK-4, phase-corrected	BaK-4, phase-corrected	BaK-4, phase-corrected	BaK-4, phase-corrected	BaK-4, phase-corrected	BaK-4, phase-corrected	BaK-4, phase-corrected
Coating	Full multi-coating	Full multi-coating	Full multi-coating	Full multi-coating	Full multi-coating	Full multi-coating	Full multi-coating
Warranty Plus	-	-	-	-	-	-	-
Warranty	5 years	5 years	5 years	5 years	5 years	5 years	5 years
Page	18	18	19	19	20	22	22

	 adventure D 8 x 26	 adventure D 10 x 26	 adventure D 8 x 34	 adventure D 10 x 34	 adventure D 8 x 42	 adventure D 10 x 42	 adventure M 8 x 25
Item number	4276826	4276126	4276834	4276134	4276842	4276142	42968251
Magnification	8 x	10 x	8 x	10 x	8 x	10 x	8 x
Lens Ø (mm)	26	26	34	34	42	42	25
Exit pupil (mm)	3.25	2.6	4.25	3.4	5.25	4.2	3.1
Geometric light intensity	10.6	6.8	18.1	11.6	27.6	17.6	9.8
Twilight factor	14.4	16.1	16.5	18.4	18.3	20.5	14.1
Eye relief (mm)	56/72	56/72	56/76	56/76	56/76	56/76	14
Pupillary distance min./max. (mm)	16	14.1	17.4	16	17.3	16.1	-
Near point (m)	3	3	2.5	2.5	2.5	2.5	2
Field of view m / 1,000 m	120	98	124	105	124	106	114
Height x Width x Depth (mm)	114 x 114 x 39	114 x 114 x 39	130 x 124 x 43	130 x 124 x 43	144 x 133 x 47	144 x 133 x 47	116 x 45 x 41
Weight without bag (g)	282	270	429	419	582	563	160
Nitrogen filled	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Waterproof	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Eyeieces for spectacle wearers	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Prisms	BaK-4	BaK-4	BaK-4	BaK-4	BaK-4	BaK-4	BaK-4
Coating	Full multi-coating	Full multi-coating	Full multi-coating	Full multi-coating	Full multi-coating	Full multi-coating	Full multi-coating
Warranty Plus	-	-	-	-	-	-	-
Warranty	5 years	5 years	5 years	5 years	5 years	5 years	5 years
Page	28	28	29	29	30	30	31

Technical data

Optical parameters according to DIN 58386, 58388

	 arena® D* 8 x 32	 arena® D* 8 x 42	 arena® D* 10 x 50	 arena® F* 8 x 25	 arena® F* 10 x 25	 regatta® 8 x 42
Item number	4254832	4254842	4254150	4256825	4256125	4250842
Magnification	8 x	8 x	10 x	8 x	10 x	8 x
Lens Ø (mm)	32	42	50	25	25	42
Exit pupil (mm)	4.0	5.25	5.0	3.1	2.5	5.25
Geometric light intensity	16.0	27.6	25.0	9.8	6.3	27.6
Twilight factor	16.0	18.3	22.4	14.1	15.8	18.3
Eye relief (mm)	19	18	18	10	10	20
Pupillary distance min./max. (mm)	58/74	58/74	58/74	40/74	40/74	60/70
Near point (m)	3	3	3	6	6	2.5
Field of view m / 1,000 m	122	107	94	124	101	113
Height x Width x Depth (mm)	125 x 128 x 50	153 x 138 x 54	172 x 146 x 60	104 x 113 x 43	104 x 113 x 43	161 x 135 x 57
Weight without bag (g)	489	619	790	300	300	714
Nitrogen filled	Yes	Yes	Yes	Yes	Yes	Yes
Waterproof	Yes	Yes	Yes	Yes	Yes	Yes
Eyepieces for spectacle wearers	Yes	Yes	Yes	Yes	Yes	Yes
Prisms	BaK-4	BaK-4	BaK-4	BaK-4	BaK-4	BaK-4, BK-7, phase-corrected high reflection prisms
Coating	Full multi-coating Silvering	Full multi-coating Silvering	Full multi-coating Silvering	Full multi-coating	Full multi-coating	High transmission multi-coating, "naturebright"
Warranty Plus	-	-	-	-	-	Ja
Warranty	5 years	5 years	5 years	5 years	5 years	10 years
Page	33	33	34	36	36	42

	 microlux 4 x 13	 microlux 6 x 18	 viva	 viva	 magnox® X 8 x 21	 Spotting scope arena® S 20-60 x 60
Item number	4294413	4294618	841626151	841626152	84177821	46312
Magnification	4 x	6 x	6 x	6 x	8	20-60
Lens Ø (mm)	13	18	15	15	21	60
Exit pupil (mm)	3.3	3.0	2.5	2.5	2.6	3.0-1.0
Geometric light intensity	10.5	9.0	6.3	6.3	6.9	9.0-1.0
Twilight factor	7.2	10.4	9.5	9.5	13.0	34.6-60.0
Eye relief (mm)	-	-	15	15	12	18
Pupillary distance min./max. (mm)	Mono	Mono	61/72	61/72	56/74	Mono
Near point (m)	2	2	2	2	2.5	6
Field of view m / 1,000 m	225	142	153	153	105	34-16
Height x Width x Depth (mm)	41 x 27 x 49	46 x 28 x 81	98 x 102 x 32	98 x 102 x 32	95 x 105 x 35	145 x 80 x 350
Weight without bag (g)	46	78	158	158	180	949
Nitrogen filled	No	No	No	No	No	Yes
Waterproof	No	No	No	No	No	Yes
Eyepieces for spectacle wearers	No	No	No	No	Yes	Yes
Prisms	BK-7	BK-7	BK-7	BK-7	BK-7	BaK-4
Coating	Full magenta coating	Full magenta coating	Full magenta coating	Full magenta coating	Multi-coating	Full multi-coating
Warranty Plus	-	-	-	-	-	-
Warranty	5 years	5 years	-	-	-	5 years
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Art.No.
KAT-FE03



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