

CSX / K 312 / K 312 II / K 624 TT / K 624 i / BINOCULARS



”

Never miss **THE MOMENT !**

”



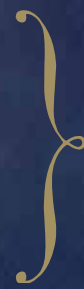
PRECISION



”

Never miss **THE MOMENT** !

”



KAHLES History



In 1898 Karl KAHLES founded the KAHLES company. Since then, each generation of the family has been committed to absolute quality and the constant search for innovations, yet at the same time userfriendly solutions. Throughout the company's history, beginning with the TELORAR (1900), MIGNON (1920) and then with the first HELIA-line rifle scopes (1926), KAHLES has constantly been setting milestones in optical history.

- First waterproof rifle scope by utilizing O-rings.
- First fully multi-coated rifle scope in series production.
- One of the first variable power rifle scopes.

Tradition is not only 100 years of KAHLES history. Tradition is the challenge to be faced each and every day. KAHLES' precision engineered optical system delivers an unbeatable field of view, brightest edge-to-edge clarity and maximum light transmission. In this sense KAHLES, Austria's oldest existing optical manufacturer, continues a tradition of optical manufacturing excellence supplying customers all around the world with precise and reliable Austrian Optical instruments - perfectly designed for each and every challenge.

KAHLES won the famous Shooting Industry Award for the Best Optic Product.



HELIA CSX

”
... use the
advantage of speed!
”

C-Dot



A spare battery is conveniently located in the windage turret cap

Extremely precise adjustment mechanism creates absolute repeatability

HELIA CSX

Robust etched glass reticle in second image focal plane does not change size with increased magnification. A decisive advantage at a long distance for the long shot.

automaticlight

Digital stageless control for day and night lighting, completely silent with memory function and a red indicator ring to identify activation. Different from standard analogue control units, the innovative CSX digital technology realizes an outstanding battery life

Complex optical design with up to four objective lenses creates the unprecedented distortion-free image with an extremely wide, field-of-view

Absolutely repetition-exact placing mechanics.

Optimized KAHLES AMV coatings realize nearly loss-free transmission in the critical spectral range of light (approx. 520 nanometers)



K 312



Magnifying reticle construction in first image focal plane for any shooting condition

”
... closer to the
target!
”



Easy-to-operate side adjustment and elevation adjustment

Indicator shows the exact position of the reticle

K 312

Parallax adjustment for highest precision

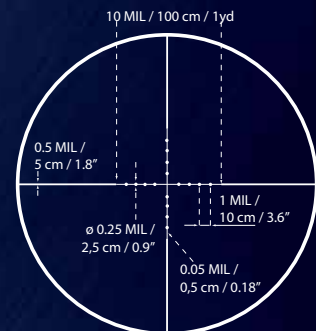


Complex optical design with up to four objective lenses creates the unprecedented distortion-free image with an extremely wide, field-of-view

Optimized KAHLES AMV coatings realize nearly loss-free transmission in the critical spectral range of light (approx. 520 nanometers)

Subtension at 100 m / 100 yds

Mil Dot



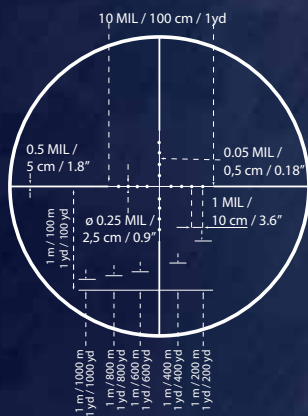
K 312 II

” ... ready for mission ”

NEW

Subtension at
100 m / 100 yds

Mil 2



3-12 x 50



Magnifying reticle construction in first image focal plane for any shooting condition

The red turret pops up when the elevating goes into the second turn

K 312 II

Easy-to-operate side adjustment and elevation adjustment

Parallax adjustment for highest precision

Complex optical design with up to four objective lenses creates the unprecedented distortion-free image with an extremely wide, field-of-view

Reticle placement indicator

Optimized KAHLES AMV coatings realize nearly loss-free transmission in the critical spectral range of light (approx. 520 nanometers)



K 624 TT

”
**Stretching the Limits in
competitive shooting ...**
”

Complex optical design with
up to four objective lenses
creates the unprecedented
distortion-free image with an
extremely wide, field-of-view

Optimized KAHLES AMV
coatings realize nearly
loss-free transmission in
the critical spectral range
of light
(approx. 520 nanometers)

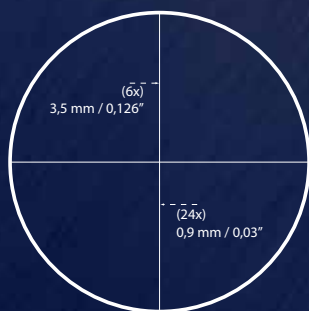




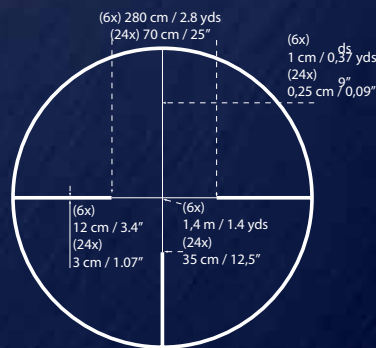
K 624 TT

Subtension at 100 m / 100 yds

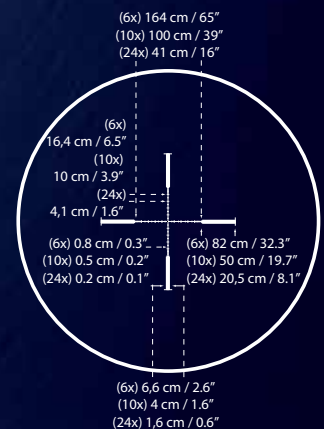
6 F



4 A



Mil 1



K 624 i

”
... reduce distance!
”

Magnifying reticle
construction in first
image focal plane for
any shooting condition

Optimized KAHLES AMV
coatings realize nearly
loss-free transmission in
the critical spectral range
of light
(approx. 520 nanometers)

Complex optical design with
up to four objective lenses
creates the unprecedented
distortion-free image with an
extremely wide, field-of-view

6-24 x 50



K 624 i

Easy-to-operate side adjustment and elevation adjustment

A reticle placement indicator allows you to work in total darkness.

Parallax adjustment for highest precision

Light adjustment

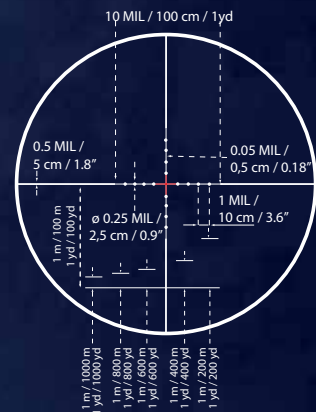
- New position of parallax adjustment (Patent)
- 3 turrets / 4 functions = better mounting
- Less weight
- easy to catch a clear picture on high magnification
- extreme edge to edge clarity
- clear picture in each elevation / magnification

NEW

Subtension at 100 m / 100 yds

Mil 3 illuminated

Reticle placement indicator



BINOCULARS

”
... crafted for
mission!
”

AMV coatings, optimized to maximum transmission between 500 and 540 Nanometers for superior low light use

NEW

- Less weight
- More light transmission (> 90%)
- Oilphobic lens surfaces

Lightweight binoculars, bright, brilliant, crisp and sharp. Yet rugged, reliable and fully waterproof.

An exclusive line of KAHLES binoculars crafted from highest grade materials to the industries tightest tolerances. Created and quality assured by the world's oldest hunting optics manufacturer located in Vienna. Uncompromised in every way.

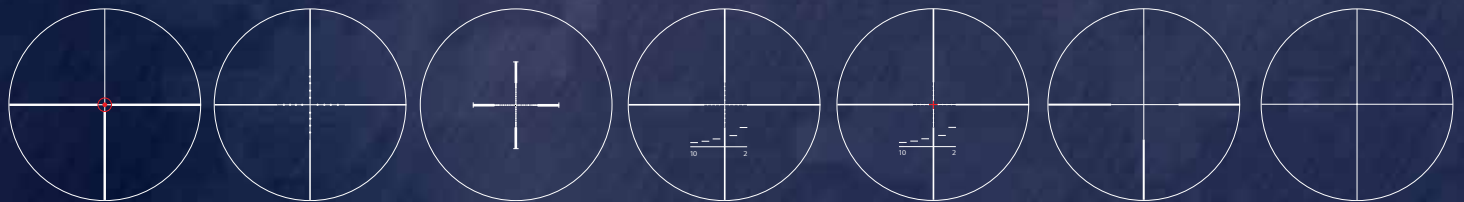
All KAHLES binoculars are featured with shock and noise dampening armorings from natural rubber materials. Side palm swells and non-slip grooves provide a sure grip under any conditions.

8x42 / 10x42



Technical Specifications

	HELIA CSX	K 312 II	K 312	K 624 i	K 624 TT
Magnification	1.1-4	3-12	3-12	6-24	6-24
Obj.lens diameter	24 mm (0.94 inch)	50 mm (1.97 inch)	50 mm (1.97 inch)	56 mm (2.2 inch)	56 mm (2.2 inch)
Field of view		12-3,5 m / 100 m (36 - 10.5 ft / 100 yd)	8,2-2,2 m / 100 m (25 - 7 ft / 100 yd)	6,8-1,75 m / 100 m (22.3 - 5.74 ft / 100 yd)	6,4-1,75 m / 100 m (19.2 - 1.75 ft / 100 yd)
Eye Relief	90 mm (3.54 inch)	90 mm (3.54 inch)	90 mm (3.54 inch)	90 mm (3.54 inch)	90 mm (3.54 inch)
Diopter compensation	+2/-3.5 dpt	+2/-3.5 dpt	+2/-3.5 dpt	+2/-3.5 dpt	+2.5/-3.5 dpt
Parallax adjustment		30 m until endless	30 m until endless	50 m until endless	50 m until endless
Impact pt. corr. per click	15 mm / 100m	1 cm / 100 m	1 cm / 100 m	1 cm / 100 m	1/8 MOA
Elevation	3,7 m/100 m (11.1 ft/100 yd)	2,4 m/100 m (7.2 ft/100 yd)	2,4 m/100 m (7.2 ft/100 yd)	2,5 m/100 m (7.5 ft/100 yd)	1 m/100 m (3 ft/100 yd)
Tube diameter	30 mm (1.18 inch)	34 mm (1.34 inch)	34 mm (1.34 inch)	34 mm (1.34 inch)	30 mm (1.18 inch)
Length	276 mm (10.9 inch)	386 mm (15.2 inch)	386 mm (15.2 inch)	405 mm (15.9 inch)	405 mm (15.9 inch)
Weight	440 g (15.5 oz)	800 g (28 oz)	800 g (28 oz)	950 g (33.6 oz)	699 g (24.7 oz)
Reticle	C-Dot	Mil 2	Mil Dot	Mil 3	Mil 1, 6 F, 4 A
Illuminated	Yes	No	No	Yes	No
Parallax adj. marking		30 m until endless	30 m until endless	30 m until endless	50 m until endless



C-Dot

Mil Dot

Mil 1

Mil 2

Mil 3

4 A

6 F



Possible combinations:

Laser Filter

Sunshield

Kill Flash

Technical Specifications

BINOCULARS	8x42	10x42
Magnification	8	10
Obj.lens diameter	42 mm (1.65 inch)	42 mm (1.65 inch)
Field of view	110 m / 1000m (120 yd / 1000 yd)	105 m / 1000 m (115 yd/ 1000 yd)
Eye Relief	19 mm (0.75 inch)	16 mm (0.63 inch)
Field of view, real / °	6,3 °	6 °
Field of view, apparent / °	51 °	59 °
Exit pupil	5,25 mm (0.2 inch)	4,2 mm (0.6 inch)
Diopter compensation	+2/-3,5 dpt	+2/-3.5 dpt
Interpupillary distance	58-72 mm (2.3-2.8 inch)	58-72 mm (2.3-2.8 inch)
Length	140 mm (5.5 inch)	140 mm (5.5 inch)
Weight	674 g (23.8 oz)	683 g (24.1 oz)
Focusing distance, shortest	2,5 m (2.7 yd)	2,3 m (2.5 yd)
Twilight factor (DIN 58388)	18,3	20,5
Colour	Loden green	Loden green

automaticlight

New generation for day and night illumination.

The world's sensation in illumination technology offers an absolutely precise, reliable and comfortable light management in the new digital light generation.

- **AutomaticLight** The innovative on- and off-automatic mechanism is regulated by the intelligent Kahles sensor which realizes different shooting positions. Impossible to forget switching off the illumination.
- **Memoryfunktion** The new Kahles digital technology stores the desired light intensity in the simplest way of operation.



Position ON – illumination on (average intensity).



Click and hold (+) or (-) to increase or to reduce intensity (leaving = stored)



Position OFF – illumination off, last brightness level remains stored

• PowerLifetime

Informes absolutely reliable and in time when battery gets weak.

Setting Standards. Since 1898.



KAHLES worldwide

Argentina	Australia	Belgium	Bulgaria	Germany
Denmark	Estonia	Finland	France	Greece
Great Britain	Ireland	Iceland	Italy	Canada
Kazakhstan	Croatia	Latvia	Lithuania	Luxembourg
Mexico	Netherlands	New Caledonia	New Zealand	Norway
Oman	Poland	Portugal	Russia	Saudi Arabia
Sweden	Switzerland	Serbia	Slovakia	Slovenia
Spain	South Africa	Czech Republic	Turkey	UAE
Ukraine	Hungary	USA	Austria	Romania

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