



**Knobloch**  
SCHIESSBRILLEN

# SHOOTING GLASSES & ACCESSORIES 2021

P O Box 101508, Moreleta Plaza, 0167  
Tel: 087 379 6276  
Fax: 086 550 3785

[www.intras.co.za](http://www.intras.co.za)  
E-mail: [info@intras.co.za](mailto:info@intras.co.za)

**Model K1**  
**Ref 1040**

K1/K1-P



Top-range shooting frame suitable for all disciplines. Adjustable nose piece (height from 35mm to 50mm) Includes lensholder and carry case.

Indicate the desired size lensholder (23mm or 37mm) when ordering.

Also available in a model specially designed for pistol shooter. The height is smaller (30mm to 40mm) since the glasses for pistol shooters do not have to be placed so high Specify K1-P when ordering

**Model K2**  
**Ref 1060 - right**  
**Ref 1062 - left**

K2

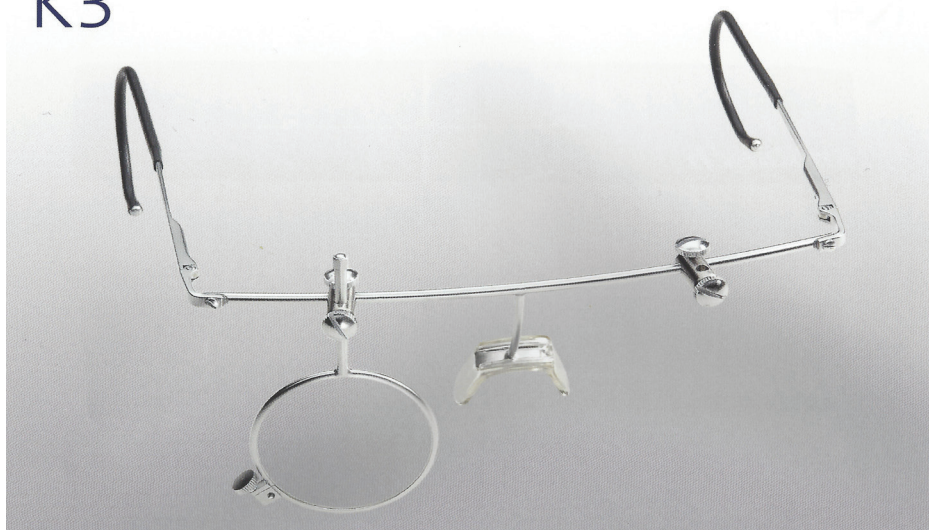


Shooting frame with arched nose bridge best suited to rifle shooters and archers that require extreme firing positions. The fixed arched nose piece conveniently slants away from the line of sight for either right or left eye aiming shooters. Includes lensholder and carry case.

Indicate the desired size lensholder (23mm or 37mm) and left or right aiming eye when ordering.

Material specification: Nickel silver ruthenium coated high-grade steel, silicone, thermoplast

K3

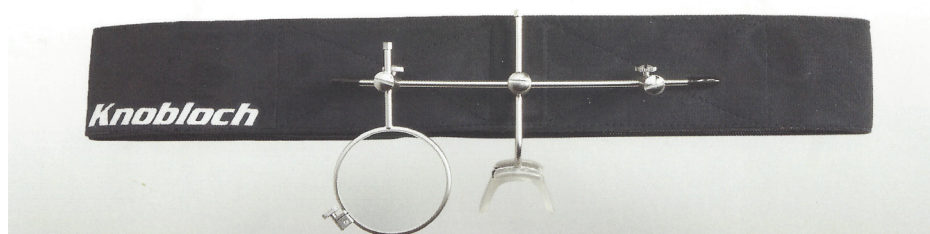


**Model K3**  
**Ref 1030**

Quality entry-level shooting frame for the beginners / newbies. The nose bridge is fixed and allows less unique adjustments. Includes lensholder and carry case.

Indicate the desired size lensholder (23mm or 37mm) when ordering.

K4

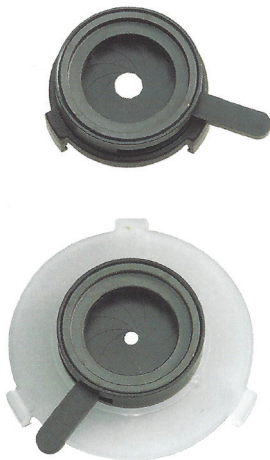


**Model K4**  
**Ref 1034**

Headband shooting glasses with 37mm lensholder and adjustable nose bridge. Specially designed for those shooters who feel uncomfortable when wearing glasses with ear pieces / temples. The velcro strap ensures the headband fits all sizes. Inner fleece cover is machine washable at 30 degrees. Includes lensholder and carry case.

Indicate the desired size lensholder (23mm or 37mm) when ordering.

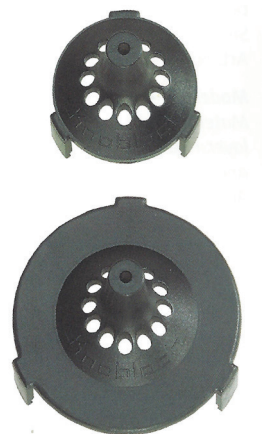




**Iris Shutter**  
**Ref 2262 for 23mm lensholder**  
**Ref 2062 for 37mm lensholder**

Ideal for pistol or rifle shooter who shoot with open sights. This replaces the dioptre and improves the focus (depth of field). It is placed on the lensholder from behind to avoid disturbing the reflexes of the lens in the holder. Suitable for both right and left aiming shooters.

TIP: First achieve the ideal correction for the aiming eye then the iris shutter can increase the sharpness



**Centering Device**  
**Ref 2064 for 37mm lensholder**  
**Ref 2164 for 23mm lensholder**

Centering device is placed in front of the lens or open iris shutter for precise adjustment to the lens. The lens is optimally adjusted / precisely centered, as soon as the sight picture show a perfectly round target bull. After centering the device is removed.



**Centering Device for lens-  
cross**  
**Ref 2022 37mm**

Specially designed to be used with the lens cross system





**Cover Disk**  
**Ref 2159 Black**  
**Ref 2160 White**  
**Ref 2165 Transparent Frosted**

For covering the non aiming eye to enable the shooter to keep both eyes open in the aiming process. 30mm wide and can be flipped up.

**Adjusting slide**  
**Ref 3071 Standard**  
**Ref 3271 Special**

Standard slide - with 1 hole. Special slide - with 2 holes. Special slide for shooters who use a second lens and a cover disk on their shooting glasses.



**Side Protector**  
**Ref 2120 Black**  
**Ref 2166 White**  
**Ref 2168 Transparent frosted**

Side protectors prevent disturbance from the side. It's 40mm high and slides onto the earpiece.



**Universal-sun-protection-shield**  
**Ref 8140 Black**  
**Ref 8100 White**

With support and screws.



**Lensholder**  
**Ref 3366 37mm**  
***Shaft length 30 or 40mm***

Large lensholder (37mm) is recommended for the pistol shooter.



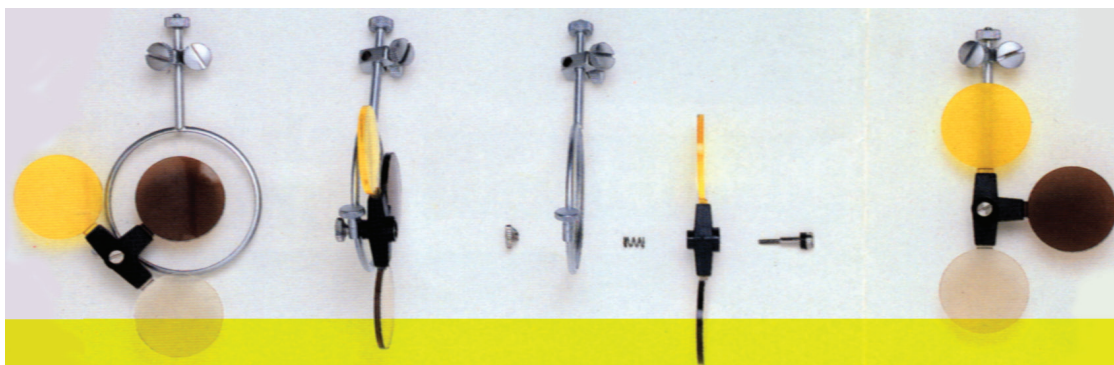
**Lensholder**  
**Ref 3266 23 mm straight**  
**Ref 3166 23mm angled**  
***Shaft length 20mm, 30mm or 40mm***

The small lensholder (23mm) is often a better choice for the rifle shooter because it's easier to adjust behind the diopter. The angled lensholder (only available in the 23mm size) can bring the lens 8mm closer to the eye than the normal holder



**Vario-lensholder**  
**Ref 3766 with 23mm lensholder**  
**Ref 3760 Variostick without lensholder**

Due to its extra adjustment possibilities in the horizontal axis, the vario lensholder offers the most variable adjustment. This lensholder is suited to extreme adjustments for the widest range of firing and head positions.





**Three-lens-system powerless**

**Ref 2001**

**Lenscross, lenses in yellow,  
brown 35% and brown 65%**

System (holder and three transparent lenses) is for quick adaptation to changing light conditions. Turn the fixture and the respective lens stops in front of the aiming eye. Available lens colours: Yellow, green, red orange, grey, brown 35% and brown 65%

**Three-lens-system frosted**

**Ref 2013**

**Lenscross, lenses in yellow,  
brown 35% and brown 65%**

The three-lens-system with frosted lenses is intended for the non-aiming eye. Together with the three-lens-system with clear lenses, both eyes experience the same light conditions.

**Lenscross with Screw**  
**Ref 2011**



**Screw with spring and nut for lenscross**  
**Ref 2012**



**Lenses powerless / Plano**

**Ref 2002**

**Specify colour on order**

Yellow, orange, red, blue, clear, lightbrown, brown, grey



**Clip-on holder**  
**Ref 5010 37mm Black**  
**Ref 5011 23mm Black**



The filter "Clip-on-system" consists of a supporting holder and a filter lens. The clip-on-holder is put on the lensholder from the front. Various filters can be clipped onto the supporting part. Depending on the light conditions the appropriate attachment filter can be attached. Additionally you have the possibility to use a high contrast filter and lenses attached in the diopters +0.25 +0.50 + 0.75 +1.00 without coating or with super anti-reflex and anti scratch coats. The filters are the same size as the lensholder (23 or 37mm) and can also be placed directly into the lensholder when needed.

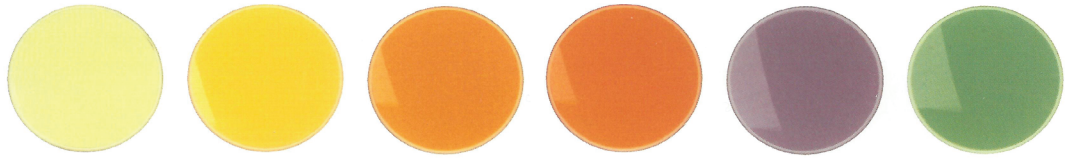
**Special filters (cut-off filters)**

The blue light components of the visible spectrum can cause glare because it is precisely this light component that is strongly scattered at the cornea, the eye lens and vitreous body. This short-wave, energy rich component of the visible spectrum, which leads to substantial scattering and reduced visual performance and contrast, can be absorbed by cut-off filters. These special filters completely absorb short-wave blue and violet light. There are cut-off filters with an absorption limit of varying wavelengths (eg 450nm, 511nm, 527nm, 550nm)





**Clip-on-filters**



**Colour and quality**

**Yellow:**  
brightening and  
high contrast in  
half light

**Orange 35%:**  
high contrast in  
dim light and nor-  
mal light

**Orange 55%:**  
high contrast in  
normal light

**Orange 60%:**  
high contrast in  
normal and  
bright light

**Amethyst:**  
increases the con-  
trast of the front  
and back sight,  
intensifies the  
black colour of  
the target

**Green:**  
increases the con-  
trast in normal  
light, reduces  
reflections

<b>Clip-on-filter CR 39, Ø 37 mm</b>	Art.-No. 5050 yellow	Art.-No. 5050 orange 35%	Art.-No. 5050 orange 55%	—	Art.-No. 5050 amethyst	—
<b>Clip-on-filter CR 39, Ø 23 mm</b>	Art.-No. 5051 yellow	Art.-No. 5051 orange 35%	Art.-No. 5051 orange 55%	—	Art.-No. 5051 amethyst	—
<b>Clip-on cut-off filter, Ø 37 mm</b>	Art.-No. 5070, 450nm	Art.-No. 5070, 511nm	Art.-No. 5070, 527nm	Art.-No. 5070, 550nm	—	Art.-No. 5075, 450nm+Pol
<b>Clip-on cut-off filter, Hard &amp; super ET, Ø 37 mm</b>	Art.-No. 5074, 450nm	Art.-No. 5074, 511nm	Art.-No. 5074, 527nm	Art.-No. 5074, 550nm	—	Art.-No. 5076, 450nm+Pol
<b>Clip-on cut-off filter, Ø 23 mm</b>	Art.-No. 5071, 450nm	Art.-No. 5071, 511nm	Art.-No. 5071, 527nm	Art.-No. 5071, 550nm	—	Art.-No. 5078, 450nm+Pol
<b>Clip-on cut-off filter, Hard &amp; super ET, Ø 23 mm</b>	Art.-No. 5077, 450nm	Art.-No. 5077, 511nm	Art.-No. 5077, 527nm	Art.-No. 5077, 550nm	—	Art.-No. 5079, 450nm+Pol



**Brown:**  
high contrast in  
normal and bright  
light, reduces  
reflections

**Brown 85%:**  
high contrast in  
bright light and  
very bright light,  
reduces reflecti-  
ons

**Brown 90%:**  
high contrast in  
very bright light,  
reduces reflecti-  
ons

**Grey:**  
for the prevention  
of beeing dazzeld  
in bright light

**Grey-green,  
G15/"pilot":**

**Special colour red:**  
high contrast in  
dim light and nor-  
mal light

**Special colour  
grey-green,  
polarized:**

The colours printed  
in this brochure  
may differ slightly  
from the original  
shades.

Art.-No. 5050 brown	—	—	Art.-No. 5050 grey	Art.-No. 5050 G15	Art.-No. 5050 orange 60%	Art.-No. 5060 pola
Art.-No. 5051 brown	—	—	Art.-No. 5051 grey	Art.-No. 5051 G15	Art.-No. 5061 orange 60%	Art.-No. 5061 pola
Art.-No. 5075, 511nm+Pol	Art.-No. 5075, 527nm+Pol	Art.-No. 5075, 550nm+Pol	—	—	—	—
Art.-No. 5076, 511nm+Pol	Art.-No. 5076, 527nm+Pol	Art.-No. 5076, 550nm+Pol	—	—	—	—
Art.-No. 5078, 511nm+Pol	Art.-No. 5078, 527nm+Pol	Art.-No. 5078, 550nm+Pol	—	—	—	—
Art.-No. 5079, 511nm+Pol	Art.-No. 5079, 527nm+Pol	Art.-No. 5079, 550nm+Pol	—	—	—	—