

FRAME TECHNOLOGIES

The many individual parts that go together to make a pair of sunglasses have to be perfectly coordinated with each other. To achieve this, we bring together some apparently contradictory requirements: stability and a lightweight construction, functionality and affordability, protection and comfort.

Our sports glasses boast precision adjustability and high-end technologies to meet the demands of all outdoor activities, and are optimised for these requirements down to the very last detail.



TWIST FIT NOSE 2.0

The Twist Fit Nose 2.0 is a clever refinement of the existing Twist Fit Nose. As well as nose pads which can be rotated to a number of positions, the angle between the two nose pads can now also be adjusted, enabling the wearer to match them to any irregularities in the shape of their nose. Taking comfort to a new level!



TWIST FIT NOSE

Rubberised nose pads which can be adjusted in small steps to fit the individual shape of the nose.



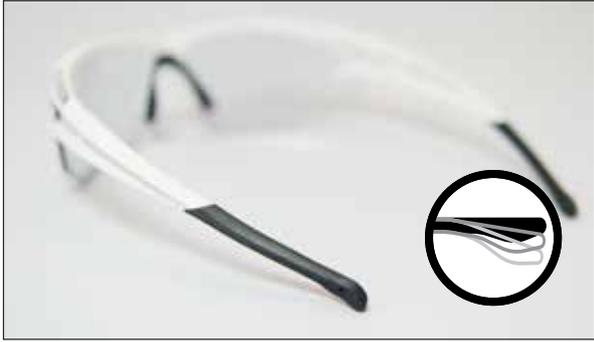
ADAPTABLE NOSEPAD

Rubberised adjustable nose pads to ensure a good fit for any width or shape of nose. The rubber effectively prevents slipping and guarantees a secure fit.



ADJUSTABLE INCLINATION

The articulated arms allow the glasses to be tipped away from the forehead during strenuous ascents and tilted back to reduce draft on the way down. For performance with clear vision at all times.



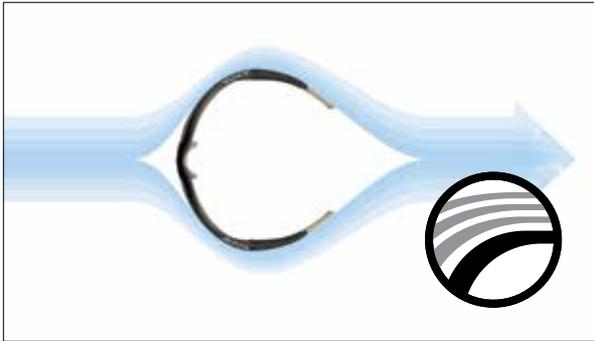
COLDFLEX

The bendable arm tips are made of non-slip silicon and can be adjusted to suit the wearer and their individual demands.



2-COMP

The combination of hard frame, soft rubberised arm tips and nose pads enhances the fit and comfort of the glasses.



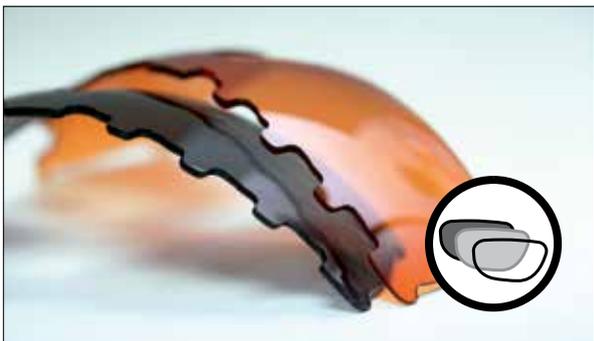
OPTIMIZED AIRFLOW

A curved lens combined with indirect air flow ensures draft-free enjoyment of high-speed outdoor sports with fog-free vision.



FLEXIBLE FRAME

Eyewear with the Flexxy frame are very flexible and can put up with a lot of punishment. Flexible frames are mainly used in children's eyewear.



MULTILENS

The Multilens glasses (Tri models) come with three interchangeable lenses: clear for poor weather, orange for diffused light and dark for bright sunshine. With Multilens glasses you're always properly prepared, whatever the weather. All Tri glasses are supplied with a case to keep the lenses safe.



TWIST FIX

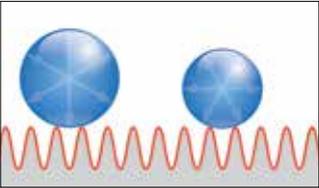
With this mechanism swapping lenses is child's play. Just click on a small lever at the arm joint and pull the lens down to remove it.

LENS TECHNOLOGIES



hydrophobic lens

The hydrophobic, i.e. water-repellent, nanostructure of the lens causes water to form into beads and roll away in the blink of an eye, taking any dirt with it. This not only leaves the lens clean but instantly dry as well.



- coating
- lens
- waterdrop



+ fogstop

Fogstop is a coating applied to the inside of the lens. It is not smooth but rough – seen through a microscope it looks quite fissured. This makes it impossible for moisture droplets to form a covering layer, i.e. to mist up the lens, impairing visibility. This could only occur if the humidity level was such that all the fissures are filled with water. But before this can happen, the stored moisture actually condenses, keeping the lens clear.



with FOGSTOP



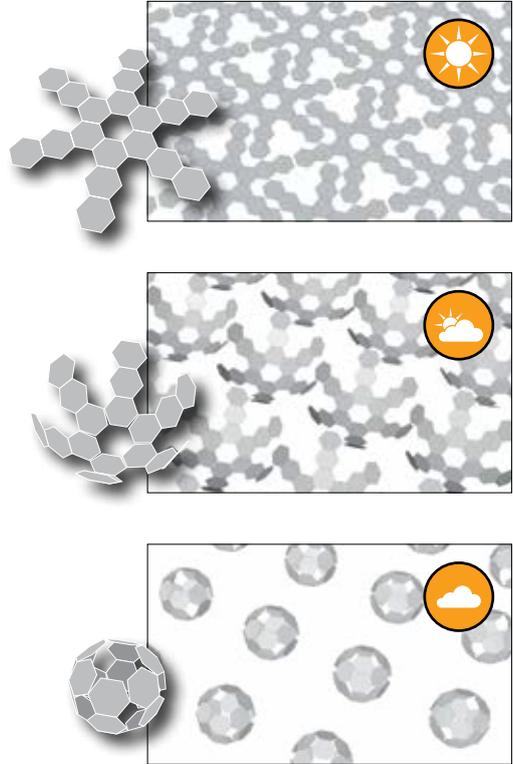
without FOGSTOP





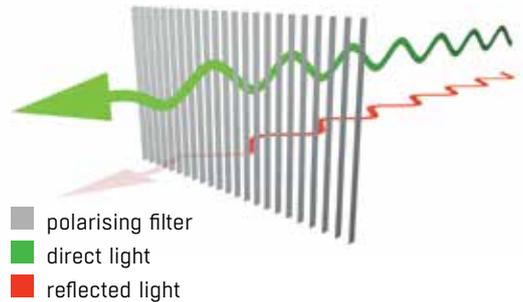
VARIOFLEX

Varioflex is a lens technology which allows glasses to adapt to the weather conditions. The self-tinting photochromic lenses react to UV light, which causes chemical components within them to turn towards the source, producing a shading effect. When the UV light source diminishes, the lenses become lighter again. The process takes place in a matter of seconds, giving you glasses that are always adjusted to the changing light conditions.



IPOLARIZED

These glasses have polarising lenses: they filter the light and only allow beams from direct light sources through. This eliminates reflexions and dazzling so the eye is not distracted by them. Polarised glasses are therefore extremely suitable for sports near and on water and for golf.

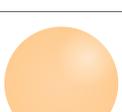
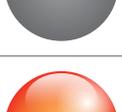
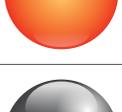
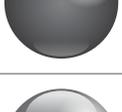
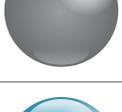
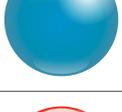


with polarising filter



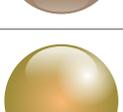
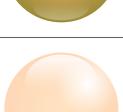
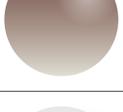
without polarising filter

LENS COLOUR

Lens Technologies Lens Colours		Pro- tection level						Description
VARIOFLEX mirror+ blue		S1-S4	◆	◆	◆	◆		Self-tinting - adjusts to light conditions; Covers four protection levels; Suitable for glacier and high altitude; Mirrored; Infrared protection; Medium to intense light protection; Fogstop coating
VARIOFLEX mirror+ blue		S1-S3		◆	◆	◆	◆	Self-tinting - adjusts to light conditions; Covers three protection levels; Mirrored; Infrared protection; Medium to high light protection; Fogstop coating
VARIOFLEX+ black		S1-S3		◆	◆	◆	◆	Self-tinting - adjusts to light conditions; Covers three protection levels; Medium to high light protection; Fogstop coating
VARIOFLEX+ orange		S1-S3		◆	◆	◆		
VARIOFLEX black		S2-S3		◆	◆	◆		Self-tinting - adjusts to light conditions; Covers three protection levels; Medium to high light protection
VARIOFLEX orange		S1-S2			◆	◆	◆	Self-tinting - adjusts to light conditions; Covers three protection levels; Medium light protection
POLARISATION mirror black		S3		◆	◆			Polarisation filter for contrast enhancement; Mirrored; High light protection
POLARISATION black		S3		◆	◆			Polarisation filter for contrast enhancement; High light protection
CERAMIC mirror+ red		S4	◆	◆				Heavily mirrored for intense light; Infrared protection; Intense light protection; Suitable for glacier and high altitude; +models with Fogstop coating
CERAMIC mirror+/ CERAMIC mirror black		S4	◆	◆				
CERAMIC mirror+/ CERAMIC mirror black		S3		◆	◆			Heavily mirrored for intense light; Infrared protection; High light protection; +models with Fogstop coating
CERAMIC mirror+/ CERAMIC mirror blue		S3		◆	◆			
CERAMIC mirror+/ CERAMIC mirror red		S3		◆	◆			

TRANSMISSION: S0 = 80-100% · S1 = 43-80% · S2 = 18-43% · S3 = 8-18% · S4 = 3-8%

LENS COLOUR

Lens Technologies Lens Colours		Pro- tection level						Description
CERAMIC mirror+/ CERAMIC mirror green		S3		◆	◆			Heavily mirrored for intense light; Infrared protection; High light protection; +models with Fogstop coating
CERAMIC mirror green		S4	◆	◆				Heavily mirrored for intense light; Infrared protection; Intense light protection; Suitable for glacier and high altitude
CERAMIC mirror pink		S3		◆	◆			Heavily mirrored for intense light; Infrared protection; High light protection
CERAMIC mirror orange		S3		◆	◆			
CERAMIC mirror brown		S3		◆	◆			
CERAMIC mirror gold		S3		◆	◆			
CERAMIC mirror orange		S2			◆	◆		
CERAMIC mirror orange		S1			◆	◆	◆	For poor lighting conditions/evening hours; Slightly mirrored; Infrared protection; Low light protection; Contrast-enhancing
CERAMIC mirror clear		S1			◆	◆	◆	For poor lighting conditions/evening hours; Slightly mirrored; Infrared protection; Low light protection
CERAMIC brown		S3		◆	◆			High light protection for intense lighting conditions
CERAMIC gradient black		S3		◆	◆			
CERAMIC gradient brown		S3		◆	◆			
CERAMIC clear		S0				◆	◆	For poor lighting conditions/evening hours, as mosquito protection; Low light protection

All lenses in all colours and tints offer 100 % UV protection and are suitable for use in road traffic (except lenses with S4 protection level) according to the ISO 12312-1:2013 standard.

GOGGLE TECHNOLOGIES

Our most important sensory organ is the eye. Weighing only 7 grams and measuring about 25 millimetres, it provides around 90% of our sensory perception. Our eyes come under enormous pressure during alpine sports, especially skiing, snowboarding and ski touring. For every 1000 metres of altitude, UV radiation increases by up to 20%. In addition to this, snow reflects up to 95% of light, compared with only 6% in grassed areas.

UV radiation and winds at speeds over 10 km/h can cause permanent damage to the eye. Our eyes are protected by lashes, the secretion of tears, our eyelids and our blinking reflex. However, additional and full protection can only be provided by ski goggles. They offer protection against UVA, UVB and UVC radiation.



COMFORT FRAME

ALPINA's COMFORT FRAME. Small zigzag-shaped, flexible synthetic ties in the forehead and cheek area of the goggle frame plus a more flexible nose construction allow the snow goggles to adapt to the wearer's individual facial shape particularly well – for superior comfort without pressure points!



SPHERICAL LENS

The spherically curved thermal double lens provides clearly improved panoramic vision. In addition, the enlarged interior volume improves thermal management inside the goggles. And THERMOBLOCK plus FOGSTOP effectively prevent fogging of the goggles.



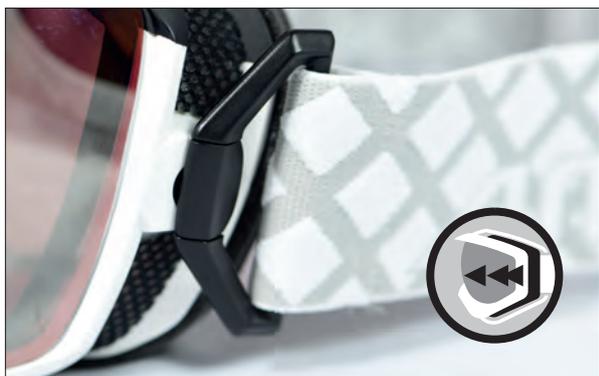
180°+ VIEW

ALPINA snow goggles with 180+ VIEW have a larger field of vision than the 180 degree field required by the CE standard. A special goggle frame and extra-large, curved panoramic lenses make this possible. This ensures a better overview – and earlier recognition of dangers in the peripheral field of vision.



VENTING LENS

Vents in the lens ensure a defined routing of the air flow and ventilation of the goggle lens. This effectively prevents fogging.



HINGE BAND

Our snow goggles featuring HINGE BAND technology don't have the goggle strap attached directly to the frame but to movable synthetic hooks on the outside of the frame. This construction provides even better fit of the goggles – especially when they're worn with a ski helmet.



SKID GRIP

Ski helmets typically have very smooth surfaces. When the skier makes dynamic movements on a trail with moguls or in open terrain conventional goggle straps can easily move out of place, unlike goggle straps using SKID GRIP technology: The special rubber coating on the inside keeps the goggles from slipping.



MAGNETIC LENS

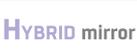
In fog or under blue skies: Snow goggles featuring MAGNETIC LENS technology ensure clear vision! You choose between a brighter bad-weather lens and a darker fair-weather lens. The darker lens is attached to the brighter lower lens where it will stay in place by means of a magnet – until you make it disappear in your pocket when the weather turns again.



RIMLESS

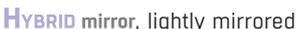
In conventional goggles the structure of the goggles holds the front lens in place, but with the rimless variant it is the rear lens that is secured. This means the frame can be reduced to a minimum allowing bigger lenses and a wider field of vision as the double lens is positioned further forward. Rimless goggles are extremely suitable for powder skiing, as the powdery snow will not collect on the rim of the goggles, impeding visibility. Added to this, they are also unbeatable for style.

LENS COLORS

GOGGLE: LENS COLORS MIRROR											
Technologies	Abbreviation	black	blue	blue	red	green	orange	flash	brown	pink	silver
											
	QVMM	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
	QMM	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
	QM	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
	MM	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
	HM	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆

GOGGLE: LENS COLORS CLASSIC					
Technologies	Abbreviation	black	clear	hicon orange	rubyred
					
	Q	◆	◆	◆	◆
	D	◆	◆	◆	◆
	S	◆	◆	◆	◆

LENS CHARACTERISTIC

FEATURES					
					
Polarized lens	◆	◆	◆	◆	◆
Photochromic lens	◆	◆	◆	◆	◆
Thermoblock	◆	◆	◆	◆	◆
100% UV A-, B-, C-protection	◆	◆	◆	◆	◆
Fogstop-coating inside	◆	◆	◆	◆	◆
Break-resistant	◆	◆	◆	◆	◆
Hard coated	◆	◆	◆	◆	◆
MIRROR VARIATIONS					
	◆	◆	◆	◆	◆
	◆	◆	◆	◆	◆

All of our ski goggles meet the European standard EN 174:2001. As part of this standard, the goggles are tested for visual requirements, mechanical stability, tightness, and protection against inflammability.

LENS TECHNOLOGIES

ALPINA snow goggles are equipped with a wide range of different lenses and technologies to match the whole spectrum of possible requirements, from a simple entry-level model to a highly technical top-of-the-range product.

Every snow goggle lens made by ALPINA has its own essential quality features, including the basic

SSINGLEFLEX:

- 100% UV-A, UV-B and UV-C protection up to 400 nm
- Anti-static Fogstop coating on the inside
- Shatter-proof polycarbonate lens
- Hard coating, except for mirrored lenses

The next grade up is the Doubleflex, a double lens with an air chamber between the two layers that creates a thermal block (a cold bridge) and prevents freezing.

DDOUBLEFLEX:

- + Thermoblock

The Thermoblock principle is applied in all lenses from this model up. Further technological enhancements to the lenses are:

VVARIOFLEX:

- + Photochromic lenses – automatically adapt tint level to the ambient light

The tinting of Varioflex lenses adapts automatically to the lighting conditions. The lenses react to visible light in the same way as the louvres of a blind. The brighter the ambient light becomes, the more the molecules integrated in the lens turn to the side and tint the lens.

QUATTROFLEX:

- + Polarisation filter for excellent contrast enhancement

Quattroflex lenses are polarising lenses: they filter the light and only allow beams from direct light sources through. This eliminates reflexions and dazzling so the eye is not distracted by them. Contrast is enhanced and the wearer's perception of colours and shapes is more clearly defined and accurate. This function comes into its own in snowy conditions, and on the ski slopes in particular, making contours clearly identifiable even in diffused light.

HYBRID mirror:

- + Lightly mirrored lenses

Mirrored lenses with a partial blocking effect yet affording optimum protection against infra-red radiation.

MULTI mirror:

- + Intensely mirrored lenses

Up to 16 mirrored layers are applied to this lens to provide protection against bright dazzling light and infra-red light. The intensely mirrored lens means the Multimirror is a stylish accessory as well as being extremely functional.

HICON:

- + Orange tint

Hicon is the name for a specific orange lens tint. This colour has the property of making contrasts stand out even more clearly.

PROTECTION LEVEL

					
Protection level	S0	S1	S2	S3	S4
Tint-Intensity	clear/medium tinted	lightly tinted	medium tinted	intensely tinted	very intensely tinted
Transmission	80 - 100 %	43 - 80 %	18 - 43 %	8 - 18 %	3 - 8 %

LENS TECHNOLOGIES

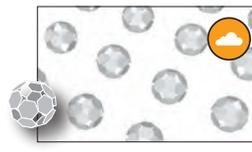
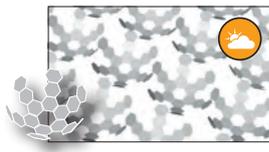
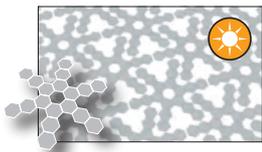
+ fogstop

Fogstop is a coating applied to the inside of the lens. It is not smooth but rough – seen through a microscope it looks quite fissured. This makes it impossible for moisture droplets to form a covering layer, i.e. to mist up the lens, impairing visibility. This could only occur if the humidity level was such that all the fissures are filled with water. But before this can happen, the stored moisture actually condenses, keeping the lens clear.



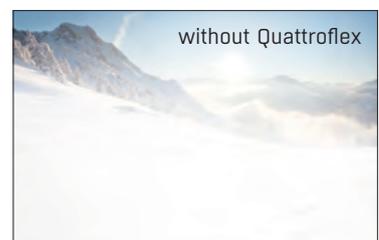
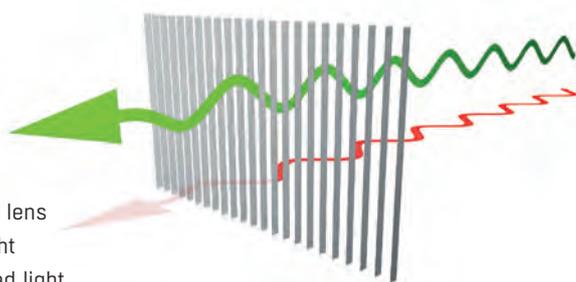
VARIOFLEX

Varioflex is a technology which allows the lens to adapt automatically to the weather. The self-tinting photochromic lenses react to visible light, which causes chemical components to open, producing a two-dimensional, shading effect. If the ambient light becomes less intense, the chemical components close and the lens becomes lighter. The process takes place in a matter of seconds – giving you goggles that are constantly adjusting to match the changing light conditions.



QUATTROFLEX

Quattroflex goggles have polarising lenses: they filter the light and only allow beams from direct light sources through. This blocks out reflections and glare so the eye is not distracted by them. Quattroflex lenses are also contrast-enhancing, which makes it easier to identify the contours of the surrounding area.



ALPINA FIT-INDEX



Find *GOGGLES* that fit!

Along with technical and design features, the top priority when choosing ski goggles is the correct size and fit. ALPINA helps you to make the right choice with the ALPINA FIT-INDEX.

HOW DOES IT WORK?

The ALPINA FIT-INDEX measures two important facial features:

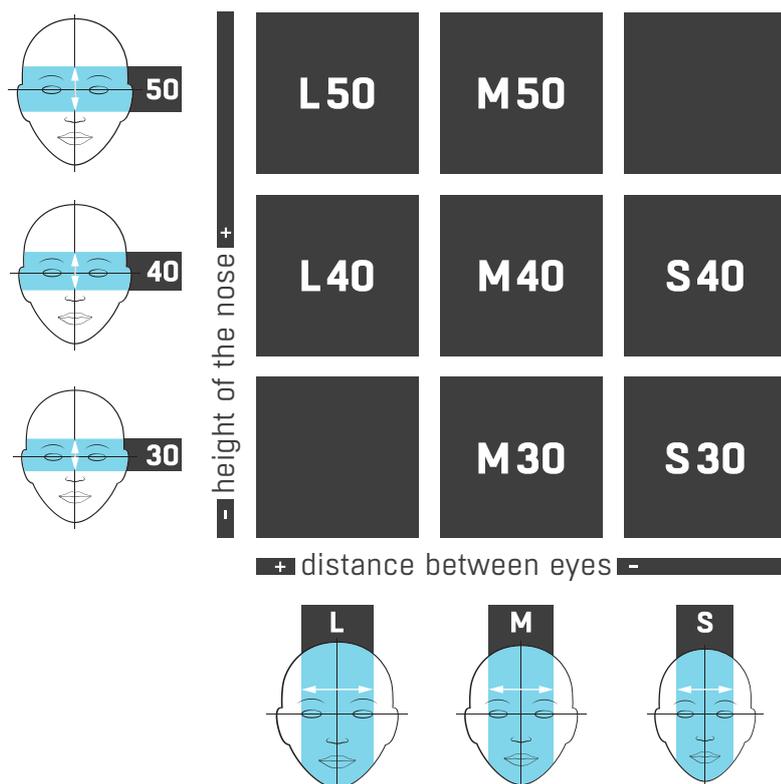
1. The distance between your eyes (S, M, L)
2. The height of your nose, i.e. the distance from the bridge of your nose to the upper edge of your eyebrows (30, 40, 50)

DIRECTIONS:

- Position the ALPINA FIT-FINDER at the upper edge of your eyebrows.
- Adjust it to the circumference of your head using the adjustment wheel at the back.
- Position the wings of the ALPINA FIT-FINDER at the outer edges of your eye sockets. The wings should not interfere with your view when looking straight ahead.
- Slide the nosepiece down so that it lightly touches your nose.

You can read off your goggle size* from the width scale at the side of the ALPINA FIT-FINDER and the height scale at the top.

* The measurements are a guideline only.



ALPINA Fit-Finder