



BF

ByField OpticsTM

TOUGHEST UNDER THE SUNTM

DESIGNED, TESTED & PERFECTED IN AUSTRALIA

BYFIELD OPTICS™ Pty Ltd

is an Australian owned company.

The team at Byfield Optics has an extensive military background with 25 years of experience in customised ballistic eye protection. Additionally, its experience with polarisation of optical viewing equipment has led to the patent pending development of the industry's first integrated polarised binoculars.

Design, engineering and independent certified testing of our eye protection products are carried out in Australia one of the harshest environments in world. That is why we can confidently claim that our range of eye protection is the "TOUGHEST UNDER THE SUN™"

A desert landscape with soldiers in the foreground and a military vehicle in the distance. The scene is hazy and dusty, suggesting a harsh environment. The soldiers are wearing full combat gear, including helmets and vests. One soldier in the foreground is holding a rifle, while another is holding a large cylindrical object, possibly a binocular or a specialized optical device. The military vehicle in the background is a large, dark-colored truck or bus, partially obscured by the haze.

ByField™

BALLISTIC EYE PROTECTION

Byfield Optics has 25 years of experience in the design and manufacture of lenses and frames. Byfield specialises in custom-made eye protection that incorporates maximum strength UV lenses that are certified ANSI Z87 1-2003, US MIL-PRF-31013 and US MIL DTL 43511D ballistic protocols (goggles).

To achieve this Byfield use only the latest technology and the highest quality materials available on the market. Carl Zeiss Vision manufactures our unique proprietary multi layered lenses for our sunglass range; offering advanced optical, anti-fog, UV and Polarised, Ballistic protection, while our frames are handmade and incorporate a Swiss manufactured TR90 core that is heat bonded, then encased within our unique "Liquid Armour"™ creating an anti-fracture frame system.



A WORLD'S FIRST: BYFIELD® POLARISED BINOCULARS

Byfield's patent pending polarised binoculars offer the same advantage as polarised sunglasses; they block out reflected light from surfaces such as water, windows and land allowing the user to see a more defined and clearer image which provides a great tactical advantage to a user no matter what environment they are operating in.

Our ground breaking technology is incorporated within the binocular, eliminating image distortion issues that have been encountered in the past when using filter caps. This technology can be transferred to other types and designs of optical visual enhancement apparatus so as not to restrict the type of equipment utilised by varying agencies.



TOUGHEST UNDER THE SUN™

ByField™



MONSTA



Frame

- Specifically designed to provide maximum face protection and comfort for a medium to large fit
- Light weight, heat bonded TR90 core designed not to splinter under extreme stress or impact conditions
- Encased in our new Liquid Armour™ for superior, strength, fit and feel
- Embedded titanium hinge pin within frame for maximum safety

Lenses

- Proprietary 2.2 mm, 8 base layered polarised ballistic polycarbonate lenses manufactured by Carl Zeiss Vision
- Superior impact resistance of up to 6 times the strength of regular impact lenses
- Certified AS/NS 1337.1.2010 & ANSI Z87 1-2003 and EN 166 compliant
- Certified US MIL-PRF-31013
- 100% UV protection

Accessories

- BF clam shell case
- Micro-fibre bag/cleaning cloth
- Neoprene/Silicon float head strap



DEFENDER



Frame

- Specifically designed to provide maximum face protection and comfort for a medium to large fit
- Light weight, heat bonded TR90 core designed not to splinter under extreme stress or impact conditions
- Encased in our new Liquid Armour™ for superior, strength, fit and feel
- Embedded titanium hinge pin within frame for maximum safety

Lenses

- Proprietary 2.2 mm, 8 base layered polarised ballistic polycarbonate lenses manufactured by Carl Zeiss Vision
- Superior impact resistance of up to 6 times the strength of regular impact lenses
- Certified AS/NS 1337.1.2010 & ANSI Z87 1-2003 and EN 166 compliant
- Certified US MIL-PRF-31013
- 100% UV protection

Accessories

- BF clam shell case
- Micro-fibre bag/cleaning cloth
- Neoprene/Silicon float head strap





TOUGHEST UNDER THE SUN™



TRACKER



Frame

- Slim line, wrap around frame to provide maximum protection and comfort for medium to large fit
- Light weight, heat bonded TR90 core designed not to splinter under extreme stress or impact conditions
- Encased in our new Liquid Armour™ for superior, strength, fit and feel
- Embedded titanium hinge pin within frame for maximum safety

Lenses

- Proprietary 2.2 mm, 8 base layered polarised ballistic polycarbonate lenses manufactured by Carl Zeiss Vision
- Superior impact resistance of up to 6 times the strength of regular impact lenses
- Certified AS/NS 1337.1.2010 & ANSI Z87 1-2003 and EN 166 compliant
- Certified US MIL-PRF-31013
- 100% UV protection

Accessories

- BF clam shell case
- Micro-fibre bag/cleaning cloth
- Neoprene/Silicon float head strap



BUSTER



Frame

- Slim line, wrap around frame to provide maximum protection and comfort for small to medium fit
- Light weight, heat bonded TR90 core designed not to splinter under extreme stress or impact conditions
- Encased in our new Liquid Armour™ for superior, strength, fit and feel
- Embedded titanium hinge pin within frame for maximum safety

Lenses

- Proprietary 2.2 mm, 8 base layered polarised ballistic polycarbonate lenses manufactured by Carl Zeiss Vision
- Superior impact resistance of up to 6 times the strength of regular impact lenses
- Certified AS/NS 1337.1.2010 & ANSI Z87 1-2003 and EN 166 compliant
- Certified US MIL-PRF-31013
- 100% UV protection

Accessories

- BF clam shell case
- Micro-fibre bag/cleaning cloth
- Neoprene/Silicon float head strap



BALLISTIC EYEWEAR



OUTBACK



Frame

- Large wrap around frame for optimum uninterrupted vision, comfort and maximum eye protection, for medium to large fit
- Light weight, heat bonded TR90 core designed not to splinter under extreme stress or impact conditions
- Encased in our new Liquid Armour™ for superior, strength, fit and feel
- Embedded titanium hinge pin within frame for maximum safety

Lenses

- Proprietary 2.2 mm, 8 base layered polarised ballistic polycarbonate lenses manufactured by Carl Zeiss Vision
- Superior impact resistance of up to 6 times the strength of regular impact lenses
- Certified AS/NS 1337.1.2010 & ANSI Z87 1-2003 and EN 166 compliant
- Certified US MIL-PRF-31013
- 100% UV protection

Accessories

- BF clam shell case
- Micro-fibre bag/cleaning cloth
- Neoprene/Silicon float head strap



SANDMASTER



Frame

- Specifically designed to provide comfort and maximum eye coverage when worn with a helmet, for medium to large fit
- Light weight, heat bonded TR90 core designed not to splinter under extreme stress or impact conditions
- Encased in our new Liquid Armour™ for superior, strength, fit and feel
- Embedded titanium hinge pin within frame for maximum safety

Lenses

- Proprietary 2.2 mm, 8 base layered polarised ballistic polycarbonate lenses manufactured by Carl Zeiss Vision
- Superior impact resistance of up to 6 times the strength of regular impact lenses
- Certified AS/NS 1337.1.2010 & ANSI Z87 1-2003 and EN 166 compliant
- Certified US MIL-PRF-31013
- 100% UV protection

Accessories

- BF clam shell case
- Micro-fibre bag/cleaning cloth
- Neoprene/Silicon float head strap



TOUGHEST UNDER THE SUN™



WOLF



Frame

- Street styling that belies Wolf's inner strength, medium fit
- Light weight, heat bonded TR90 core designed not to splinter under extreme stress or impact conditions
- Encased in our new Liquid Armour™ for superior, strength, fit and feel
- Embedded titanium hinge pin within frame for maximum safety

Lenses

- Proprietary 2.2 mm, 8 base layered polarised ballistic polycarbonate lenses manufactured by Carl Zeiss Vision
- Superior impact resistance of up to 6 times the strength of regular impact lenses
- Certified AS/NS 1337.1.2010 & ANSI Z87 1-2003 and EN 166 compliant
- Certified US MIL-PRF-31013
- 100% UV protection

Accessories

- BF clam shell case
- Micro-fibre bag/cleaning cloth
- Neoprene/Silicon float head strap



MAMBA



Frame

- Wide peripheral blade system providing sports like comfort with maximum eye protection for medium to large fit
- Light weight, heat bonded TR90 core designed not to splinter under extreme stress or impact conditions
- Encased in our new Liquid Armour™ for superior, strength, fit and feel

Lenses

- Proprietary 2.2 mm, 8 base layered polarised ballistic polycarbonate lenses manufactured by Carl Zeiss Vision
- Superior impact resistance of up to 6 times the strength of regular impact lenses
- Certified AS/NS 1337.1.2010 & ANSI Z87 1-2003 and EN 166 compliant
- Certified US MIL-PRF-31013
- 100% UV protection

Accessories

- BF clam shell case
- Micro-fibre bag/cleaning cloth
- Neoprene/Silicon float head strap



BALLISTIC EYEWEAR



ByFieldTM



FRAME OPTIONS: Flat Black/Camo
Includes set of 3 lenses: Smoke/Yellow/Clear

INTERCEPTOR

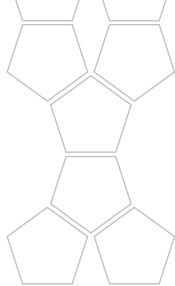


BALLISTIC TACTICAL GOGGLE

The interceptor goggle has been specifically designed for tactical operations. With our unique anti-fog lens system, we offer the ultimate in ballistic distortion free HI-impact eye protection.

- Ergonomically Designed for Maximum eye protection
- Helmet Compatible
- Compatible with night vision and binoculars
- High impact, optically correct, ballistic rated polycarbonate lenses
- Double coated anti-fog system, unique to Byfield Optics
- Uninterrupted wide field of view
- Certified MIL-STD-662F DECEMBER 1997 Tested in accordance with MIL-DTL-43511D
- Certified ANSI Z87.1-2010 Ballistic and Optical Requirements
- CE Cert MIL-DTL 43511D, ANSI Z87.1.2003 and EN166 Compliant
- 100% A & B UV protection
- Quick change interchangeable lenses, no tools required

BALLISTIC TACTICAL GOGGLES



TOUGHEST UNDER THE SUN

The Byfield Optics range of eye protection is independently tested by international and Australian NATA certified laboratories and are compliant to the following standards:

- ANSI Z87.1.2003
- AS/NZS1337.1.2010 (impact only)
- Charpy test ISO STD 179/1EA
- Tensile Strength Test ISO STD 527
- High Velocity Impact Test ANIZ87.1
- Ballistic Test MIL-STD-662F in accordance with MIL-PRF-31013
- Ballistic Test MIL-STD-662F in accordance with MIL-DTL-43511D
- EN166 Compliant

Optics by
Carl Zeiss Vision

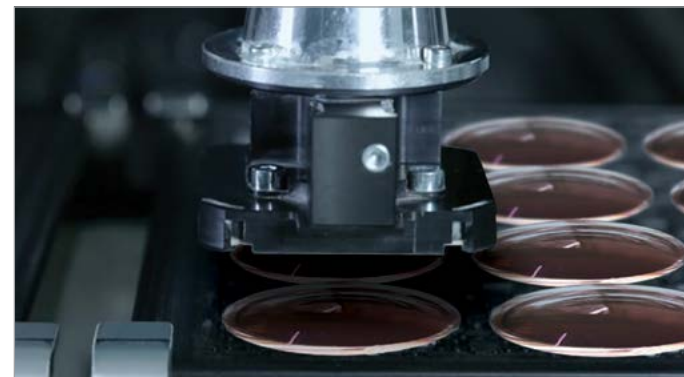


Image shows our model TRACKER being subjected to ballistic resistance in accordance with MIL-PRF-31013 using a 0.15 calibre, 5.8 grain T37 shaped projectile at an average velocity of 655 feet per second.



Our frame cores are molded from Grilmide TR90 a Thermo- polyamide, which gives our frames an unsurpassed level of impact resistance. We then heat coat the frame core in our Liquid Armour™. This process adds additional strength, and has a low coefficient of friction that is:

- **Non-slip, durable and comfortable**
- **Fire resistant to 350°C**
- **CE non allergy certified**
- **Releases no chemical residue (EN 166 compliant)**

The merging of these two technologies leads us to believe that the Byfield TR90 core Liquid Armour™ coated frames are amongst the strongest and safest in the world.

BALLISTIC EYEWEAR





RECON

POLARISED

The Recon 10x42 is the ultimate all-rounder, now incorporating high definition extra low dispersion optics, our patent pending “integrated polarised lens system” and delivers the ultimate in polarised clear resolution and fidelity, resulting in true crisp images.

Lightweight design with maximum image quality, nitrogen filled, water resistant, weather proof, O-ring sealed, fog proof, dust proof, twist-up eyecups to accommodate prescription glasses and multi coated optics for maximum light transmission in all weather conditions.

- Patent pending “integrated polarised lens system”
- Bak-4 Roof Prism system
- High Definition Lenses
- O-Ring Sealed and Nitrogen charged
- Water Proof / Dust Proof / Fog Proof
- Non-Slip Ergonomic Rubber Outer Skin
- Light weight
- Clear crisp resolution and fidelity
- Smooth adjustment focus wheel

Model	RECON
Power	10 x 42
Objective diameter	42 mm
Waterproof	Yes
Near Focus	3 m
Colour	Black
Exit pupil	4.2mm
Eye relief	18.4 mm
Weight	744 g
Field of view	5.8° 304 ft at 1000 yds 101 m at 1000 m
Size	15 x 128 x 52 mm

(10 X 42)

POLARISED



WATER
PROOF





TRACKER

POLARISED

56 mm objective lenses gather more light than any other binocular in our line, producing the brightest, sharpest, most vivid images, making them the ideal for our new patent pending "integrated polarised lens system".

Nitrogen filled, water resistant, O-ring sealed, fog proof, dust proof, weather proof, twist-up eyecups to accommodate prescription glasses and multi coated optics for maximum light transmission in all weather conditions.

- Patent pending "integrated polarised lens system"
- BAK-4 Roof Prism System
- Multi coated Optics
- O-Ring Sealed and Nitrogen Charged
- Water Proof / Dust Proof / Fog Proof
- Non Slip, Ergonomic Rubber Outer Skin
- Vivid brightness and Clarity
- Smooth adjustment focus wheel

(8 X 56)

POLARISED



WATER
PROOF



Model	TRACKER
Power	8 x 56
Objective diameter	56 mm
Waterproof	Yes
Near Focus	3 m
Colour	Black
Exit pupil	6.9 mm
Eye relief	18.00 mm
Weight	1300 g
Field of view	6° 345 ft at 1000 yds 115 m at 1000 m
Size	188 x 165 x 75 mm



WWW.BYFIELDOPTICS.COM

DESIGN: WWW.DETRA.COM.AU