



Eyewear User Guide

WELCOME

metaAIR® Laser Glare Protection eyewear is a premium product designed and tailored for pilots. It offers the world's best combination of transparency, protection and colour balance for night flight.

CERTIFICATIONS AND MARKINGS

metaAIR eyewear are certified for EN166, EN170 and Z87+. These guarantee that they safety eyewear that are impact-resistant and protect against UV radiation, optimized for use in aircraft environments.

metaAIR eyewear are certified for ANSI Z87.1-2015, earning a Z87+U6S marking. This means that the frames are qualified to be impact resistant, and the lenses are qualified as special purpose and UV resistant, blocking more than 99.99% of far UV radiation and more than 99.9% of near UV radiation.

metaAIR eyewear are also certified as Personal Protective Equipment (PPE) as set up in the EU regulation 2016/425, earning a CE 2-1,7 1 F marking, complying with the EN166:2001 and EN170:2002 harmonized standards for personal eye protectors. This means that they allow no more than 0.0003% of UV radiation at 313 nm, no more than 7% of UV radiation at 365 nm and have a luminous transmittance between 43.2% and 58.1%. They also feature lenses with optical glass category 1, and the eyewear are resistant to low energy impacts.

This model is certified by: CCQS UK, Ltd. 5 Harbour Exchange Square, Canary Wharf, London E14 9GE, UK - Notified Body Number: 1105

The EU declaration of conformity can be found at www.meta-air.com

IMPORTANT SAFETY INSTRUCTIONS

WARNING While metaAIR is designed to maintain natural looking colors, some color distortion is present due to the filtering properties of the product. This may impact the color appearance of objects, lights, and indicators. Always check the product with your safety systems before use.

WARNING Not suitable for driving and road use.

WARNING Risk of severe permanent eye damage and blindness. Improper use of this eyewear can cause blindness from off angle direct laser light. This eyewear does not protect from laser

glare of laser light at all angles and outside 532nm +/- 2nm wavelength. This product is designed to be used only by pilots who are exposed to diffused laser glare from a distance of more than 100m. Never shine a laser pointer into your face directly to test this eyewear while being worn. Some common laser pointers use a different wavelength that appears green but is not 532nm. Other wavelengths will not be filtered by this product and your eyes will not be protected outside 532nm.

CAUTION Never point a laser directly at the eyewear from close range as there is a risk that the reflected beam could aim directly at unprotected people nearby.

CAUTION The optional prescription carriers come fitted with demo lenses. Do not use the carriers with these demo lenses, they are for display purposes only. Users with corrective lenses should have the carrier fitted with lenses that fit their prescription by an optician of their choice.

CAUTION Materials which may come into contact with the wearer's skin could cause allergic reactions to susceptible individuals.

FEATURES AND BENEFITS

- Protection against 532nm laser strikes
- High transparency
- Provides protection against glare and flash blindness
- Minimum optical density (blocking strength) =OD2.0. Peak: OD5.0
- Wide angle protection
- Developed using holographic nanopatterning technology
- Filter system ready for night flights
- Anti-reflective coating (ARC)
- UV protection
- Suitable for day and night operation
- Custom engineered frame for additional safety
- Custom designed lanyard

LANYARD INSTALLATION

Insert the lanyard end with the raised L (left) on the lanyard tip into the left side of the eyewear stem. Insert the lanyard end with the raised R (right) into the lanyard tip to the right side of the eyewear stem. Lightly pull the lanyard to ensure it has been properly secured.

THE PRESCRIPTION CARRIER (OPTIONAL)

Prescription compatible models of metaAIR eyewear (models 1000001-01/02) include a removable wire carrier to hold corrective lenses. The carrier comes preinstalled with demo lenses, which should be removed before use. If you do not require prescription lenses, remove

the carrier from the eyewear and store it in a safe place. If you do require prescription lenses remove the carrier and bring it to the optician of your choice to have it fit with corrective lenses that meet your prescription.

Installation and removal of the carrier

Install the prescription lens carrier by inserting the bridge wire of the carrier into the brow groove on the interior of the plastic frame. Then pivot the carrier about the bridge wire until the two nose wires snap into the corresponding grooves in the plastic frame.

Remove the prescription lens carrier by prying the rim wires at the lower nasal side, up and away from the frame using your fingernails or a non-marring tool like a credit card or guitar pick. Take care not to scratch or damage the MX3 laser protection film.

CARE AND HANDLING OF METAIR

Please read the following information on how to properly care for metaAIR:

- Avoid touching the lenses of your eyewear, to prevent oily residue and reduce the risk of scratches.
- Clean eyewear lenses with a minimal amount of soapy water and use a clean, soft cloth to dry them. Never use alkaline or ammonia-based cleaners, abrasives, or strong solvents.
- Regularly inspect lenses for scratches, pitting, or other damage that might affect transparency or laser protection.
- Eyewear should be replaced if damage is apparent.
- Your eyewear is designed to be used at normal cockpit operating temperatures between 15-30°C.
- If you need to transport your eyewear, always use the provided case.
- When not in use, store your eyewear in the hard-shell case it came with. This will protect your eyewear from dirt and scratches.
- For extended storage, eyewear should be kept in a controlled environment between 15-25°C and 30-50% relative humidity.
- Do not store in direct sunlight.
- metaAIR eyewear are designed to maintain high performance for at least 5 years from the date of purchase. Please discard after this period.

MODEL NUMBERS AND PARTS

Meta Materials Inc. (META) produces two models of metaAIR, depending on whether the frame is compatible with prescription (Rx) lenses. You can identify your model number by the presence of grooves to install Rx prescription carriers on the inner surface of the frame.

Model Name	Part Number
Laser Glare Protection Eyewear	1000001
Laser Glare Protection Rx Eyewear	1000001-01/02

Other components and part numbers are listed in the table below.

Accessory or part name	Part Number
Lanyard	1000015
Screws	1000026
Rx Carrier	1000082
Rx Frame Assembly	1000084
Hard case	1000056
Soft case	1000057
Laser 532 protection Lens Right	1000002
Laser 532 protection Lens Left	1000003

WARRANTY

For a complete overview of metaAIR's warranty and terms and conditions, please visit the metaAIR website at meta-air.com or contact our customer care department.

CONTACT US

Customer Service

Telephone: 1-902-452-7776

Email: customercare@metamaterial.com

Hours of Operation

Monday – Friday

9:00 A.M. - 5:00 P.M. AST

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metaAIR Eyewear are imported by Satair A/S, Amager Landevej 147A, 2770 Kastrup, Denmark