

## metaAIR™ FACT SHEET

- Metamaterial Technologies Inc. (MTI) Lamda Guard division has developed a new premium laser protection product called metaAIR™. This product can provide vision protection against bright and intense laser lights.
- In 2014, MTI signed a partnership agreement with Airbus to test and tailor metaAIR™, as a solution to protect a pilot's vision by blocking and deflecting intense laser strikes.
- In December 2016, MTI signed a new agreement with Airbus to validate, certify and commercialize metaAIR™
- metaAIR™ is a flexible, optical metamaterial filter engineered to stop and deflect harmful laser beams aimed at aircraft windscreens. It can be adhered onto the inner surface of a cockpit windscreen. metaAIR™ requires no additional workload by the aircraft operator and can integrate with current equipment systems. The laser beam is deflected off the filter before it reaches the inside of the aircraft cockpit.
- metaAIR™ has been created from polymer materials using nano-patterned designs with features as small as 5 nanometers that are engineered to interact with incoming light to block and deflect specific colors or wavelengths. metaAIR™ offers best-in-class transparency, superior angle performance and has been designed to meet aerospace environmental standards.
- metaAIR™ is a large-scale laser protection solution with the capability to be retrofitted onto airplane windscreens.
- metaAIR™ does not affect night-time vision as it is neutral in color and is highly transparent.
- The filter can also be applied to protective eyewear, retractable visors, and optical sensors.
- metaAIR™ can be applied to almost any clear glass or plastic surface.
- In 2014, Frost & Sullivan awarded the company the Global Product Leadership award for Lamda Guard metaAIR™.
- metaAIR™ can provide laser protection in many industries including airline, automotive, defense, and transportation.
- metaAIR™ is currently in the final stages of commercial development. Once the product is complete it will require industry certification for commercial aviation.

