

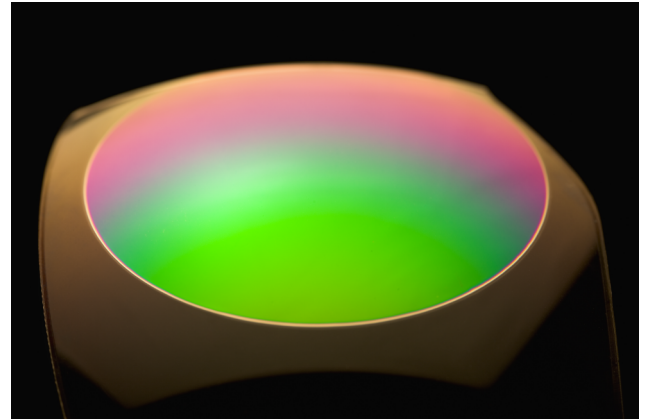
Defence & Aerospace

HMD

Helmet Mounted Display Patches

Artemis Optical Ltd design and manufacture display patches on Visors for Helmet Mounted Displays, used in modern helicopters and fighter aircraft.

We have a wealth of experience in designing these coatings for numerous platforms. Our HMD patches offer unparalleled uniformity contrast, colour consistency and neutrality, whether on glass or plastics visors.



Artemis are used to striving for value for money targets, as well as meeting technical challenges. We are able to provide a bespoke design service to meet your system parameters.

Application

Helmet Mounted Displays are used to project aircraft flight information, such as flight and weapon data directly into the pilots eye. This removes the need for the pilot to look around the cockpit for his vital information, allowing him/her to dedicate concentration to their safety and mission effectiveness.

Special features of Artemis Helmet Mounted Display Patches

- High adhesion coatings on contoured plastic visors, which allows maximum durability and unparalleled value for money in a cockpit compatible material.
- High contrast display patches, giving a brighter sharper image usable in high glare conditions.
- Highly uniform display patches increasing uniformity of contrast and colour consistency over the display patch, offering improved visibility.
- Customer designed patches to match your specific requirements.
- Ability to coat very thin substrates with high aspect ratios, offering reduced visor weights.

Defence & Aerospace

HMD

Helmet Mounted Display Patches

Durability Spec

Adhesion:	MIL-C-48497A para 4.5.3.1
Abrasion Moderate:	MIL-C-48497A para 4.5.3.3
Temperature Operating:	MIL-STD-810 E Method 501.3 procedure II (16hrs) +60°C MIL-STD-810 E Method 502.3 procedure II (3hrs) -30°C
Humidity:	MIL-STD-810 E Method 507.3 procedure 1 cycle No.3, (10 days)
Fungus Resistance:	MIL-STD-810 E Method 508.4-1 class 1 (28 days)
Sun Illumination:	MIL-STD-810 E Method 505.4 procedure I and II (10days)
Rainfall:	MIL-STD-810 E Method 506.3 procedure II
Contaminants:	Variously tested against, Hydraulic Fluid, Fire Extinguishant, Engine and Gearbox oil, De-icing Fluid.

Artemis Optical & Our Facilities

Headed by the team of five Directors, Artemis, a world renowned company employs in excess of 40 talented staff, with an unbeatable history of more than 50 years in the design and application of its high precision, technically differentiated optical coatings.

Our customer portfolio includes blue chip original equipment manufacturers in the defence, aerospace, security, photonic surgery and medical and analytical instrumentation markets.

Our state of the art facilities are located at Langage Science Park in Plymouth the South West of England. Our factory includes a 22,000 square foot bespoke, environmentally controlled coating room, housing a range of modern coating chambers, to include APS, APS Pro, Sputtering and thermal evaporation coating processes.

Ryan Gillard BA (Hons) MInstSMM
Sales Executive



Ryan.gillard@artemis-optical.co.uk
+44 (0)1752 294931

a 1 Western Wood Way, Langage Science Park, Plympton, Plymouth, Devon, PL7 5BG

t + 44 (0)1752 341 943

f + 44 (0)1752 342 467

w www.artemis-optical.co.uk

