



## LARGE FORMAT COATING

EMF has decades of experience in handling large format optics and special substrates that require intensive engineering interaction and careful program management. The team brings over 80 years of optics handling experience and has participated in some of the most exciting and challenging optics adventures in the history of space exploration. As we've done with observatories around the world, our team can help you design and create a custom coating solution to meet the requirements of your system.

### Industries Served    Typical Applications

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| <ul style="list-style-type: none"> <li>• Aerospace</li> <li>• Astronomy</li> <li>• Defense</li> </ul> | <ul style="list-style-type: none"> <li>• Satellite mirrors</li> <li>• Telescope mirrors</li> <li>• Training simulators</li> <li>• IR imaging systems</li> </ul> |
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### Mirror Coatings (Protected and Enhanced) - Sizes up to 2.5 meters (108 inches) and 5,000 lbs

Coating	Benefits
Silver	Outstanding reflection for visible and infrared wavelengths
Aluminum	Long-lasting, durable, good reflection in ultraviolet, visible, and infrared wavelengths
Gold	Excellent reflection for infrared wavelengths

### Dielectric Coatings

Coating	Applications
High Efficiency/Low Reflectors (HELRL) & Multi-Layer Anti-Reflection (MLAR)	Minimize reflection to less than 1% of surface
Beamsplitters	Reflection/Transmission +/- 5% for 50/50 and 60/40



*You guys really nailed it! We very much appreciate both the excellent work and your professional attitudes.*

- Jeff Morgan - Sr. Telescope Engineer, PAN-STARRS Project, University of Hawaii