

TAILORED OPTICAL COATINGS FOR YOUR DISPLAY



IRIDIAN
SPECTRAL TECHNOLOGIES

New AR+IR+AS Display Coatings from Iridian!

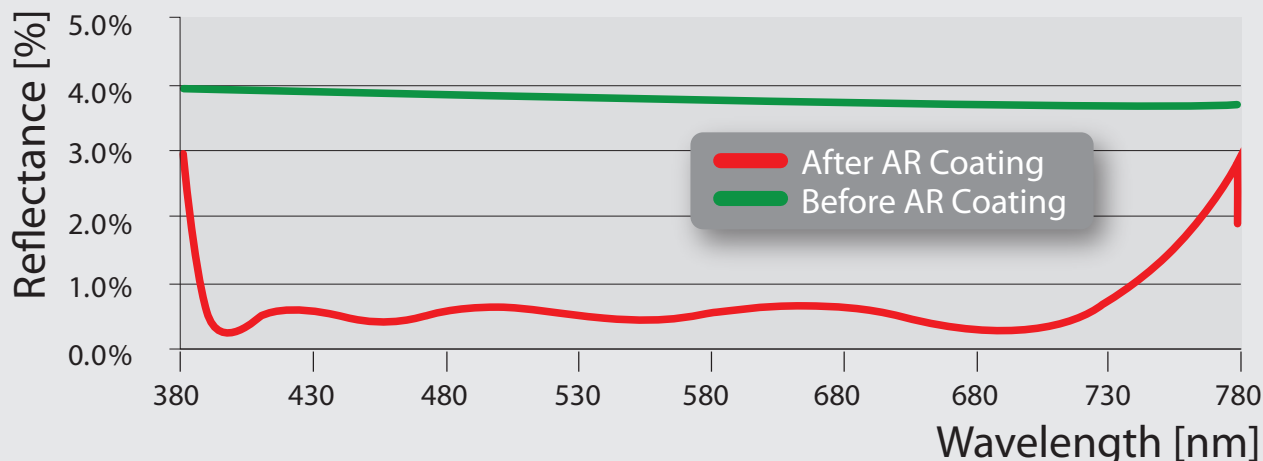
Driven by the proliferation of touch-screen technology the need has exploded for low-glare, high-transmission coatings that provide protection from and ease of cleaning of water, oils, and fingerprints while reducing the heat load on the display electronics.



Iridian has developed anti-reflection coatings with a top anti-smudge coating (AR+AS), combined with a near-infrared reflector (IR), providing a durable, high-quality solution to address this challenge. The performance of the AR and IR coatings can be tailored to meet specific needs.

- **AS coating:** Oleophobic and hydrophobic providing ease of cleaning and smudge resistance from water and environmental oils such as fingerprints, food, and many consumer products
- **AR coating:** Suppress surface reflections reducing glare in high brightness conditions. With an AR coating the reflectance from the glass surface can be reduced by more than 70%, from around 4% to less than 1% over the visible spectrum as shown in the chart below.
- **IR coating (hot mirror):** Suppress heat loading from solar radiation and other heat sources with integrated IR reflectors

These coatings are available on sizes as large as 20" on the diagonal.



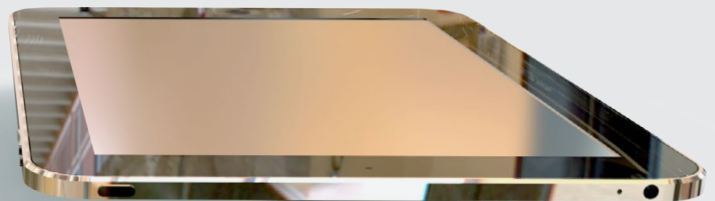
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THE LEADER IN OPTICAL FILTER SOLUTIONS

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WITHOUT AR Coating



WITH AR Coating

Anti-Smudge/Anti-Reflection Performance Specs:

Contact Angle

>100°

Pencil Hardness

6H*

(*as measured on AR)

Transmission

>99%

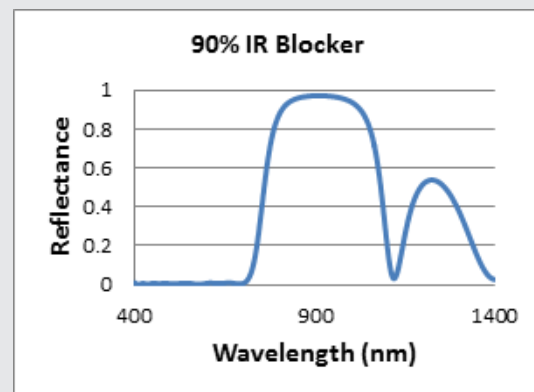
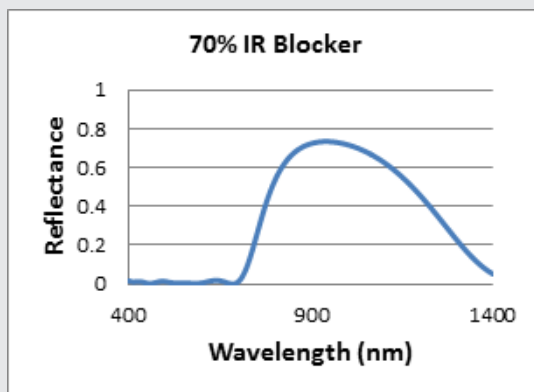
Reflection

<1%

Rub Test

>8000 rubs (Steel wool)

Near IR Hot Mirror Performance Curves:



IRIDIAN has extensive experience in the vacuum deposition of oleophobic (oil-resistant) materials to provide very durable and robust AS coatings combined with AR+IR coatings tailored to specific needs. From initial product design and prototype development through to high-volume, low-cost production, Iridian works together with our customers to develop optical filter solutions optimized for both technical functionality and commercial success.

Come to us for a solution to your display coating needs today!

Iridian Spectral Technologies Ltd (Iridian) Ottawa, ON, Canada — www.iridian.ca — Iridian is a diversified optical filter manufacturer that is an international leader in filter design and manufacture especially for application in the fields of fiber optic communications, optical spectroscopy, 3D entertainment, and in aerospace. Iridian was ranked as one of the top 150 high technology companies in Canada in the 2011 and 2012

Branham 300 rankings and won the 2010 Canada Export Achievement Award for the province of Ontario sponsored by Profit magazine together with Export Development Corporation (EDC). Iridian is a global supplier with distributors in many countries particularly in Asia.



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