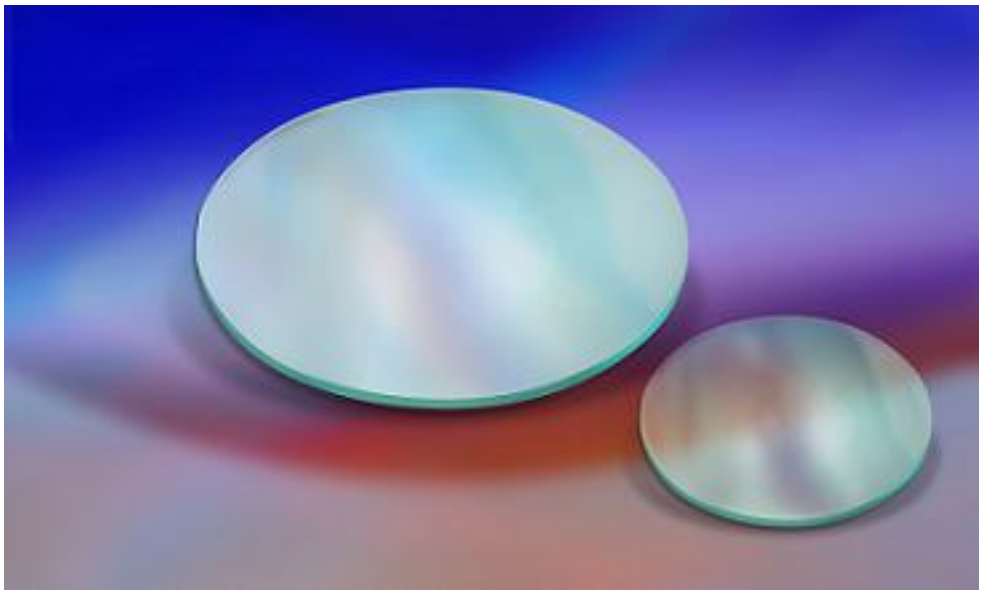
Improved Filter Reduces the Infrared and Transmits the Visible Wavelengths in Camera Applications



Deposition Sciences, Inc. (DSI), manufacturer of highly durable thin film optical coatings, announces an improved filter specially developed to reduce the infrared (IR) and transmit the visible wavelengths in camera applications. Because CMOS sensors are particularly sensitive to unwanted IR wavelengths, DSI's improved CMOS IR Filter is designed to block up to 99.5 percent of the IR radiation while transmitting more than 85 percent of the visible.

The improvement in the new infrared filter is critical to CMOS imaging systems that require a highly effective, stable, and uniform IR reduction. The optical thin film coating can be applied to glass as thin as 0.003 inches, which can be used as an encapsulating cover glass for devices being flooded with damaging environmental infrared.

The advancement in DSI's new IR filter can significantly improve the signal- to-noise ratio in visible CMOS imaging systems that are subject to unwanted IR radiation. It is ideal for use in camera applications where it is critical that IR radiation is blocked to reduce the effects of extraneous light and to improve clarity and contrast in the imagery.

DSI's proprietary MicroDyn? sputtering technology yields high performance CMOS IR filters. This highly durable, uniform coating is extremely stable over temperature and humidity changes.

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