



ArrayTec™ Technology Expands Filter Array Options

Materion introduces our family of ArrayTec™ filter arrays in a range of designs to meet your individual needs. Added to our current “Custom” design are the new “Standard” and “Select” categories, all high resolution imaging arrays used in space, multi-spectral defense and commercial applications. Each filter array construction offers distinct advantages as to customization, size, assembly, price and lead-time.

Meeting the Industry Challenge

The Aerospace and Defense industries are evolving and demanding more functionality in satellites along with reduced overall size. In the past, custom filter arrays were only available for larger satellites that were built for multi-task configurations. That meant the only choice for smaller commercial satellites, due to size, prohibitive cost and lead time, was discrete, one wave length filters. To address these challenges and expand the options available for smaller applications, Materion developed ArrayTec™. By applying our 40 years of optical experience and advanced micro-dicing and micro-assembly technologies, we created our new line of filter arrays. They open the door for additional industries to take advantage of multi-spectral filters at a competitive cost and lead time.

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Evolution of the 3D Sensing Market

Over the past few years, “three-dimensional (3D) depth sensing technology” has had a somewhat limited presence in the consumer electronics market. Its first application was in the field of gaming, but recently it has found a new home in 3D imaging and iris detection. The reason for the expanded usage has much to do with the anticipated capability that every mobile device will shoot pictures in 3D instead of 2D! 3D sensing technology allows for a variety of unique consumer applications. For example, a person can refocus pictures after they are already taken; use augmented reality to ensure proper assembly of a child’s toys; install parts on a vehicle to specification just like an actual mechanic; or 3D print almost anything in the world and enjoy it while sitting in their own living room. This is just the start!

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Smart Cars Drive Need for Technical Advantages

While automobiles have employed optical sensors for over 30 years, today’s contemporary “smart cars” demand more technologically advanced and rugged optical sensors than ever before. Behind this is the industry push toward superior safety systems and autonomous driving capabilities. Materion Precision Optics is a world leader in the cutting-edge technology required to produce these sophisticated optical sensors.

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In the News! Space Missions Carry Materion Optics

Materion contributed to a new but little known NASA Mars mission that recently achieved its destination. The orbiter named MAVEN entered Mars’ orbit after a 10-month journey for the purpose of characterizing the planet’s upper atmosphere. One result of [MAVEN's observations](#) will be a better understanding of the loss of hydrogen and oxygen which have escaped Mars’ surface over time which in turn will allow scientists to estimate the amount of water present.

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Face to Face

Meet Michael Newell, the new Vice President of Marketing & Sales for Materion Precision Optics. While working mainly from the Westford, MA location, Michael will be dedicating time to our Shanghai facility as well.



Michael joined the Materion team in September 2014 and reports to President Robert Naranjo. Asked about his early impression of the company culture, he remarked; “I like the focus on developing innovative technology. The people seem committed to pioneering risks that will grow business opportunities.”

In addition to his Bachelor of Science from the University of Tasmania, Michael has a PhD in Physics (lasers and optics) from the University of Queensland, Australia.

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Events - Join us!

SPIE.DSS

April 20-24,
Baltimore Convention Center
Booth # 630



June 9-11,
Long Beach Convention Center
Booth # 128