



## **Magnolia Optical Awarded U.S. Patent on Innovative Infrared Detector Technology**

**Woburn, Mass** (February 10, 2018).-Magnolia Optical Technologies, Inc. announced today that it has been awarded a new U.S. patent by the United States Patent and Trademark Office (USPTO). The U.S. Patent No 9,851,257 B1, issued on December 26, 2017, relates to the development of “Silicon Nitride-Carbon Nanotube-Graphene Nanocomposite Microbolometer IR Detector”

Dr. Ashok K. Sood, President of Magnolia stated that “we are pleased to receive the U.S. patent for this innovative microbolometer detector technology. This technology is important to Magnolia Optical for developing innovative technology applications for Defense, NASA and Commercial markets.”

The patent relates to a thermal IR detector by using silicon nitride-carbon nanotube-graphene nanocomposites fabricated on vanadium oxide or amorphous silicon microbolometric structures and methods of fabricating these detector arrays.

Magnolia Optical has been issued 8 US patents and has approximately 15 additional patent applications that are at various stages of review at the U.S. Patent Office. These issued patents describe and protect Magnolia Optical innovations in the field of high-performance technologies that cover the ultraviolet, visible, and infrared part of the electromagnetic spectrum.

### **About Magnolia Optical Technologies, Inc**

Magnolia Optical Technologies specializes in developing innovative optical technologies for Defense, NASA and commercial applications. Based in Woburn, MA and Albany, NY, Magnolia is developing technologies that cover the ultraviolet, visible, and infrared part of the electromagnetic spectrum. In addition, Magnolia is also developing innovative high efficiency thin film solar cells for niche portable power markets and space power applications. These technologies are developed for use in sensors, optical systems, and commercial applications.

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