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Arradiance Granted Patent for Breakthrough New Microchannel Plate Process

Engineered thin film dynode deposited by Atomic Layer Deposition promises improved gain performance and device lifetime.

Sudbury, Mass. , October 14, 2010 – Arradiance today announced that they have added to their IP portfolio a U.S. Patent entitled, "Microchannel Plate devices with multiple emissive layers" that acknowledges the novelty of the Company's core technology.
Among the breakthough claims of the patent is the application of an engineered thin film dynode layer applied to microchannel plates which enhance their performance in many key areas including higher gain, lower dark noise, and longer effective lifetime.

"Being awarded this patent is a cornerstone in our strategy of fundamentally changing the way microchannel plates will be made in the future", stated Arradiance CEO, Ken Stenton, "It is a key component of a patent portfolio which will serve to protect the considerable investment our company has made to bring the benefits of nanotechnology to this device with critical scientific and national security applications ."

The patent is the first to be issued from many pending patents that will strengthen the Company's position in this vital technology. Arradiance has demonstrated that by using its nanofilm process, it can manufacture MCPs from glass, silicon, ceramic, and even plastic substrates.

"MCPs are ubiquitous," says Neal Sullivan, Arradiance CTO, "Our broad experience in materials science, charged particle physics and systems design have been combined to improve the capability for photon and charged particle detection opening new applications in astrophysics, high energy physics, analytical and medical sciences and homeland security ."

About Arradiance

Arradiance is enabling us to better perceive the hidden world all around us. Their functional film technologies greatly enhance the performance of imaging and detection systems, providing resolution, gain and lifetime improvements that were previously unattainable. Their enabling processes and products will open the door to a new world of flexible, robust, electro-optic systems that will change the way we see our world.

Learn more at www.arradiance.com

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