


Imaging systems and methods for recovering object visibility (Technion)**code:** COM-0834

There is a wide spectrum of uses for images taken in scattering media such as fog, water and even in biological tissue. Unfortunately, these images suffer from poor visibility due to backscattering and signal attenuation. Backscatter is especially strong when using artificial illumination. This technological approach which is instant, simple, easy to build and low-cost results in a computational visibility improvement which has already been demonstrated underwater in poor visibility conditions. It also yields a rough estimate of the 3D scene structure and may even be extended to work with multiple illumination sources.

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