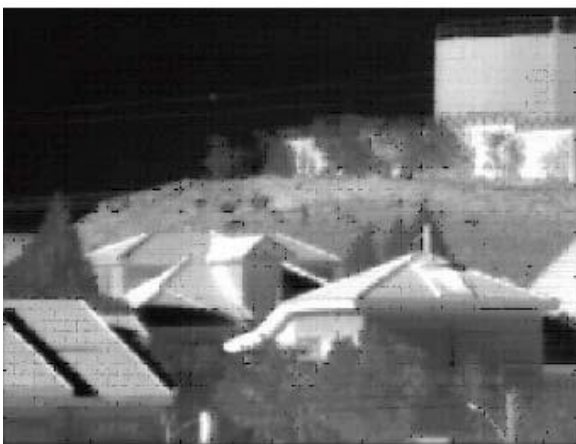


## Automatic Blur Correction

This technology automatically corrects images degraded by the isotropic blur evident in out-of-focus images and in those produced using long-distance imaging (atmospheric blur). Image correction is accomplished by extracting the blur function automatically from the acquired image via a direct (non-iterative) and expeditious process that produces stable output. Quality of the corrected image typically exceeds that of the existing techniques, performing especially well on images with commonly encountered step-edge features.



Before Correction  
(Long-distance Infrared Image)



After Correction

### Goals and Benefits

- Enhanced image clarity for observers
- Improved performances of surveillance algorithms

### Potential Commercial Uses and Market

Easily incorporated into any type of imaging system (visual, IR, etc.) prone to isotropic blurring, the method is employed in the increasingly common long-distance surveillance systems prevalent in security/homeland security applications. Correctly adapted, the method is also exploitable in digital video cameras where out-of-focus filming can occur frequently.

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### Patent Status

Patent Pending

### Contact for Licensing Information

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