

## Efficient Surveillance of CCTV Cameras



# BiPSA ImageAlert<sup>TM</sup>

**Filtering Out Normal Image Flow,  
Alerting On Unusual Image Change**

Scores of cameras are installed in a typical installation protected by physical security, leaving the sole human guard as the weakest link. Overwhelmed by so many screens, he can easily miss an intrusion, overlook a sparking fire, or be mindless of an employee wrong doing. BiPSA ImageAlert<sup>TM</sup> is designed to alleviate this deficiency by real time computation of the entropy of each image, using the BiPSA algorithm.

Entropy is the measure of per-pixel image predictability. It remains virtually constant despite actual image dynamics unless the camera captures something unusual. By computing the time dependent image entropy, BiPSA ImageAlert<sup>TM</sup> will filter out normal image changes, as people walk by, doors are opened, etc, and identify unusual changes: people moving fast, in unusual pattern, more people, fire, flood, etc. The BiPSA ImageAlert<sup>TM</sup> algorithm is so fast and efficient that it computes the image entropy in real time, and will alert the human guard (local or remote) to the particular screen where something of interest takes place. Without the "BiPSA ImageAlert<sup>TM</sup>" the guard will distribute his attention evenly among the many screens that are trusted to him and is likely to miss the incident he is paid to spot.



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