VideoPlus supports most imagers to provide image enhancement and automated detection and tracking:

- Stabilizes video collected by cameras on unstable platforms
- Removes scintillation
- Automatically detects and tracks people and vehicles
- Automatic pan-follow using imagers

VideoPlus provides real-time superior performance:

- Stabilizes video with low latency and automatic shut off during pans
- Removes scintillation without distorting moving targets
- Detects and tracks targets at long range, with low contrast, and very low false alarms due to blowing vegetation, clouds, moving water, and other background clutter

Video is processed and icon overlays (red crosshairs) indicate moving target detections.
Video Processing Functions

### Electronic Stabilization
Removes frame-to-frame motion due to camera mount motion
Effectively removes frame-to-frame shifts of 50 pixels or less
Simple control trigger suppresses stabilization during pan, zoom, and focus operations

### Heat Scintillation Removal
Suppresses scene motion due to atmospheric instability
Controls allow selection of weak, medium, or strong function settings
Simple control trigger suppresses removal during pan, zoom, and focus operations

### Automated Detection
Automatically detects and tracks moving objects within video content
Objects can be detected and tracks maintained while panning or tilting
Object detection optionally indicated by controllable video overlays
Closed-loop control via track report enables automated track pan following
System performance relies on camera FOV and estimated slant range settings

System Interface

### Inputs
Digital video over Ethernet connection
Multiple standard compression formats supported (MPEG2, MPEG4, H.264, and MJPEG)
Full frame rate processing for standard definition inputs

### Outputs
Digital video over Ethernet connection
MJPEG served over HTTP connections
Includes icon overlays for detections, reticle (crosshairs), and system status
Target track reports via Ethernet connection
XML-based, Toyon open standards format

### Control
System status and controls available via Ethernet connection
XML-based, Toyon open standards format
System emulator available for rapid interface development

Hardware

### Power
24VDC or 120VAC options available
Power requirements depend on configuration and enabled functionality

### Video Streams
One-, two-, and multiple-channel configurations available.

### Size
2U rack-mount industrial system

For more information on VideoPlus contact Toyon today at videoplus@toyon.com