



Video+Plus



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

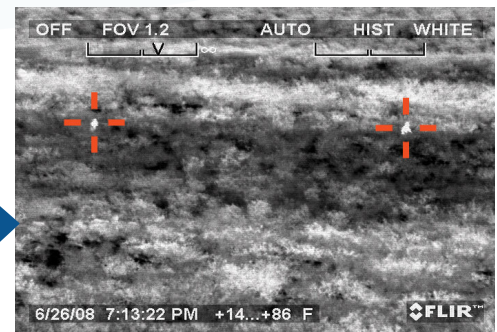
- Stabilizes video collected by cameras on unstable platforms
- Removes scintillation
- Automatically detects and tracks people and vehicles
- Automatic pan-follow using imagers

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



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



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Software Version 2.0

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