

Video Stabilizer



Overview

Video Stabilizer is a simple, reliable plug and play product from IntelliVision to stabilize the video output from any camera. It can stop the shakes and stabilize the video stream from analog, IP/Network, digital cameras.

Many outdoor and vehicle-mounted cameras shake due to:

- Wind and weather conditions
- Road, bridge, and rail track vibrations during heavy vehicle movement
- Vibrations from engines and normal motion for vehicle-mounted cameras
- Vibrations from heavy machinery in industrial installations

Video Stabilizer analyzes the video-in, eliminates the shake in translational and rotational directions simultaneously, and outputs a clear stabilized video stream.

Benefits

Video Stabilizer offers the following benefits:

- Enables better compression & encoding resulting in lower bandwidth utilization.
- Reduces file storage space required for video archival on DVRs, NVRs, and Video Management Products. Since the stabilized stream takes a lot less space, user can record for a much longer time using the same disk storage size.
- Reduces Video fatigue and eye strain by providing clear and stable video for viewing.
- Enhances the accuracy and effectiveness of Video Analytics systems by providing a stable video stream.



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Features

Video Stabilizer offers several flexible product features.

- Works with standard Color, B/W, IR and thermal cameras. Supports NTSC, PAL and Composite Video In and Out.
- *Input:* Analog, IP/Network
- *Output:* Analog, IP/Network, Local display on monitor
- Flexible video resolutions: D1 (640x480) and CIF (320x240)
- Simple on-screen configuration
- Provides X-Y and rotational stabilization
- Settings for stabilization frequency and edge filling
- Ability to save the stabilized video stream (on PC platforms only).
- Remote/External configuration via Ethernet.



Applications

Video Stabilizer can be used for:

- Outdoor Cameras mounted on poles
- Transportation (ITS) Cameras mounted on roads, bridges, and near railway tracks
- Mobile Cameras installed on vehicles such as cars, buses, trains, ships, boats etc
- Mobile cameras in planes, UAVs
- Cameras installed in industrial locations prone to vibration from heavy machinery

Hardware Specifications

Video Stabilizer is available in the following configurations:

1. **Embedded Small System.** This is a small black box that can be located at the edge or in the control room.
 - Analog Video In, Analog Video Out,
 - Standard RJ45 Ethernet
 - NTSC or PAL support. 30 FPS
 - 75 Ohm BNC Connector
 - Size: 5"x 4.8"x 2"
 - External power supply; 6V DC input



2. **Server System.** This is provided on a PC server with stabilization software.
3. **Mini System.** This is a smaller version of the server system running on a closed black box 10"x6"x2.5" in size
4. **PC Software (API/SDK).** This option is available for OEMs that would like to embed Video Stabilizer in their own video management or security applications.

About IntelliVision

IntelliVision is a leader in "Video Intelligence and Automated Monitoring" solutions for Security & Surveillance markets. Our products have been successfully deployed at several Government and Enterprise customers providing high reliability and running 24/7/365. IntelliVision is headquartered in USA with offices in Europe & Asia.

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