



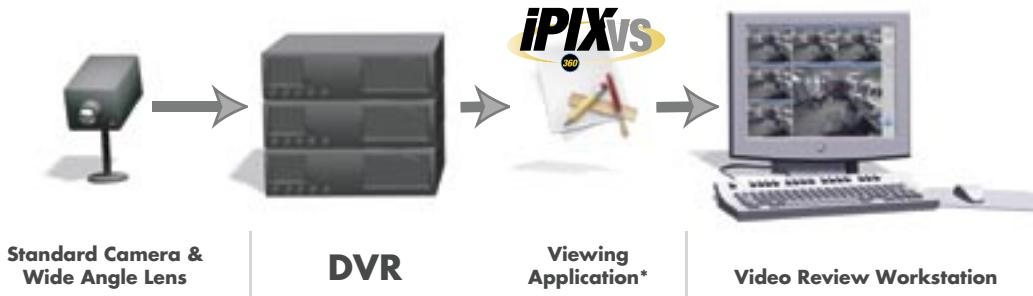
# Software Developers Kit (SDK)

FOR DVR'S, NVR'S, COMMAND & CONTROL

## iPIX Security and Surveillance Solutions



See Everything With 360-Degree  
Field-of-View From Any Fixed Camera



\*Software resides in viewing application

### Add 360-Degree digital Pan/Tilt/Zoom to DVR, NVR, and Command & Control software

With iPIX/S inside, any camera connected to a digital recording system can view and record in 360-degrees. It's as simple as adding the patented iPIX software to the security management software.

iPIX Makes it easy. The iPIX/S Software Developers Kit (SDK) is a C++ library complete with sample code and applications that easily integrates into any Windows based solution.

An iPIX/S enhanced system opens up new markets and optimizes surveillance for all installations. Combined with other fixed field-of-view cameras and pan/tilt/zoom cameras, iPIX adds 100% coverage with no blind spots while reducing the complexity. The results are improved security and reduced cost of operation.

Any camera with an off-the-shelf fisheye lens becomes a digital pan/tilt/zoom camera.

Enhancing video security with iPIX/S is easy for manufacturers, integrators, and end-users.

- 1 The manufacturer adds the iPIX/S software into their security management software using the SDK.
- 2 The integrator defines the plan for all camera placements and turns on the iPIX/S software in the management software for the desired cameras.
- 3 The Installer installs their selected cameras with a commercially available fisheye lens to capture the 360-degree field of view.

### iPIXVS Advantages

- ① Use existing or new CCTV cameras
  - Low cost upgrade to installed systems
  - Works with analog and digital cameras connected to DVR or IP networks
- ② Cost effective
  - No moving parts, easy installation and maintenance
  - Software only solution
  - No proprietary hardware to purchase
- ③ Panoramic, normal, & multi-image views
  - See an entire area with your choice of panoramic, traditional, and multiple views from a single camera, all with complete pan/tilt control
- ④ Pan/Tilt viewing, whole image recording
  - Record the entire field-of-view while panning and tilting to view any area of interest
- ⑤ Maintains all recording and playback performance and features
  - Isolated iPIX viewer allows recording at full speed
  - Real-time distortion correction
  - All motion sensing, compression, and video management of the DVR is unaffected
  - Validity of "evidence" protected
- ⑥ Up to 360-degree x 180-degree field of view
  - No blind spots & flexible camera placement - wall or ceiling
  - Fixed mount, no moving parts
  - Even pans recorded video for historical pan/tilt/zoom



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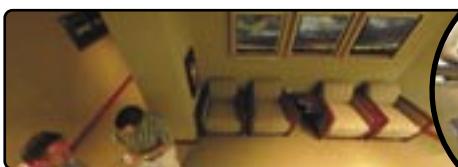
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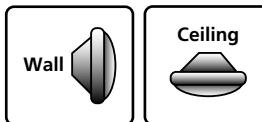
Standard Field of View



iPIXVS Field of View



iPIXVS Mounting Options



Example of Ceiling Mounted iPIXVS

## System Requirements

- ④ Windows-based security management software for DVR, NVR, or C & C (Digital Video Recorder, Network Video Recorder, or Command and Control)
- ④ Analog or Network Camera with 480 lines of resolution or greater
- ④ Fisheye lens with 120-degree or greater field of view. Off-the-shelf lenses are available from Fujinon, Pentax, Rainbow, and others
- ④ Utilizes the existing user interface for control of pan/tilt/zoom.

## How it Works

Adding iPIXVS to your digital security system is similar to adding drivers for a new pan/tilt/zoom camera. Simply integrate the software into the viewing modules of your software. The iPIXVS software processes the display of the video image just prior to display. The image is corrected to remove any distortion from the fisheye lens and is presented in your choice of multiple or single formats:

### ① Panoramic

Set the dimensions to display a panoramic field of view with your choice of image height.

### ② Normal

View any portion of the entire image in standard 4:3 aspect ratio.

### ③ Variable

Set the width and height of the display to your desired point of view.

In each of the views, the video images can be panned, tilted, and zoomed using the same controls used for mechanical pan/tilt/zoom cameras or simple mouse-based controls from iPIX.

There are three integration points for iPIXVS software in the security management software:

- ④ Live viewing
- ④ Archive viewing
- ④ Remote viewing via Web browsers and client software

To find out more about iPIXVS contact our business development team 1.800.303.5400 or by email at [security@ipix.com](mailto:security@ipix.com)

Visit our website at  
[www.ipix.com](http://www.ipix.com)

