

FIRST LINE

Digital Surveillance™

Security Through Technology's Best

XPress Plus

Multi-Channel, PCI-Bus, Wavelet Video Compression Board

First Line XPress Plus is a low-cost, PCI-bus, video capture and compression engine that combines the capabilities of fast switching, digital recording and viewing of video from up to eight cameras simultaneously. Video can be switched, controlled, digitized, stored, recorded and played back in a variety of flexible options.

Integral Technologies, based in Indianapolis, Indiana, provides powerful, affordable, high-performance digital surveillance solutions. As a pioneer and world leader in digital video imaging, Integral Technologies continues to meet the unique needs of the security industry with products designed to make surveillance systems easy to implement and even easier to use. For more information on the complete line of digital surveillance products from Integral Technologies, visit our Web site at www.integraltech.com.

Key Features

- Multi-channel Wavelet video compression board
- Real-time digital video compression (8:1 to 200:1 & more)
- Fast video switching
- 8 video inputs: Composite & S-Video, NTSC, PAL
- Real-time video decompression & playback
- Software playback of video while continuing to record compressed video
- Video displayed on VGA monitor & video monitor
- 8 alarm inputs
- 1 alarm output
- Composite or S-Video output
- DSP-controlled activity detection
- RS-485/RS-232 serial port
- Low-cost digital CCTV & time-lapse recording
- Installs into any Intel-based PCI system
- Software Developers Kit Windows 95, 98 & NT
- Easy to install, Microsoft Plug and Play
- FCC and CE Approved

Many sample applications included.



Specifications**8 Camera Inputs**

Up to eight cameras can be configured and switched with First Line XPress Plus. Any combination of color or monochrome cameras can be configured. XPress Plus supports both NTSC and PAL standards.

High-Quality Wavelet Video Compression

XPress Plus utilizes Wavelet video compression, which offers improved quality at high compression rates.

Video Display Options

Video can be displayed full screen on an analog video monitor and in a resizable video window on your VGA monitor.

Video Output

Video can be displayed on a separate monitor or recorded to a VCR.

Programmable Control

XPress Plus provides programmable control to trigger video surveillance on alarm or event, to initiate a preprogrammed video sequence or to control manual video observation. First Line XPress Plus can be programmed to prioritize critical viewing areas.

Activity Detection

Activity detection prioritizes and controls the rate of camera sequence recording, viewing and digital capture—an invaluable capability—by responding to movement.

Alarm Triggers

Up to eight input triggers provide alarm or event verification for each camera assigned to a trigger. Triggers can be activated by a variety of input devices including sensors, motion detectors, proximity switches and contact closures. Triggers can be configured to control the preferred video display option, digitally capture and save the video image, and activate external events. An output trigger provides activation of audio or visual alarms or time-lapse recording.

Capturing, Storing and Printing Images

XPress Plus is also a full-featured PCI frame grabber. Full color or monochrome video images can be digitally captured and saved in your PC in a variety of file formats including BMP, TIFF, JPEG and more. Images can be copied into MS Windows applications, included in reports and printed.

Extensive Software Support

XPress Plus comes complete with full support for MS Windows 95, 98 and NT. The included software allows for full control of capture, compression and playback of all eight video inputs. An optional Software Developers Kit offers developers and integrators the flexibility to develop custom applications.

Full Compatibility

The First Line XPress family is fully compatible with the latest generation of Pentium II computers.

Cost Effective

XPress Plus turns your computer into a powerful CCTV surveillance system or digital time-lapse recorder for an exceptionally low cost. XPress Plus protects the investment of existing surveillance systems by using most of their components, including cameras, monitors and cables.

First Line XPress Plus Overview

- PCI Bus-mastering Wavelet video compression, decompression and capture board
- PCI Bus rev 2.1 compliant

Video Input

- 8 composite inputs or 4 S-Video inputs, selectable through software control
- NTSC or PAL, software selectable
- CCIR-601 digitizing resolution
- Color and monochrome
- Genlocks to any NTSC/PAL video source
- Software control of brightness, contrast, hue and saturation
- 24/16/15 bpp RGB or YUV 4:2:2 color digitization

Video Output

- 1 composite or S-Video output
- Real-time video decompression and playback
- NTSC or PAL, software selectable

I/O Triggers and Controls

- 8 input triggers—software definable combination of Normally Open or Normally Closed
- 1 optically isolated output trigger (TTL or Opto)
- 1 asynchronous serial port with RS-232 and RS-485 interface for pan, tilt, zoom and camera control

Video Compression and Playback

- Wavelet compression ratios from 8:1 to 200:1 and higher (typical CCTV time-lapse application: 72 hours = 8 gigabytes)
- Software selectable compression ratios and frame rate for each input channel
- Full 30 fps video capture at full frame size from a single input source
- Variable compression ratio change for specific video inputs based on triggered events
- Software playback of video while simultaneously recording compressed video
- Live preview of video input during compression
- Video can be displayed full screen on an analog video monitor and in a resizable video window on a VGA monitor
- Fast random access to the recorded video
- Variable video playback rates (forward/backward)
- Supports any digital storage media

Processing Control and Activity Detection

- On-board DSP
- Control of video inputs, compression ratios, activity and motion detection

Software Included

- MS Windows 95, 98 and NT drivers
- First Line XPress XPG video capture and I/O control application
- First Line XPress XVCR digital video compression application
- First Line XPress VB-VCR digital VCR application

Software Developers Kit (optional)

- MS Windows 95, 98 and NT DLLs
- Extensive sample applications and source code
- First Line XPress XPG application source code
- First Line XPress XVCR application source code
- First Line VB-VCR Visual Basic source code

Physical and Environmental Parameters

- Small form factor—181mm x 107mm
- Low power consumption: 8.6W - 720 mA (5V), 420 mA (12V)
- Operating temperature: 0°C to 70°C
- CE and FCC approved

Ordering Information

- XPress Plus—part # 3310
- XPress Software Developers Kit—part # 3340

Cabling

- Wide variety of standard and custom cables available

Use your First Line XPress Plus compression board exclusively with our full-functionality MasterControl software—sold separately.

