



XPress Pro

Multichannel, PCI Bus, Wavelet Video Compression Board

First Line XPress Pro is a 16 input, PCI bus video capture and compression engine that combines the capabilities of fast switching and viewing from up to 16 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.

Board Features

- Multichannel, wavelet, video compression board
- Real-time digital video compression (8:1 to 200:1 and more)
- Fast video switching
- 16 video inputs: composite, NTSC, PAL
- Real-time video decompression and playback
- Independent full-frame, real-time video preview
- Software playback of video while continuing to record compressed video
- Video displayed on VGA monitor and video monitor
- 16 alarm inputs
- 1 alarm output
- 4 switched composite outputs (one with onscreen display)
- DSP-controlled activity detection
- RS-485/RS-232 serial port
- Low-cost digital CCTV and time-lapse recording
- Installs into any Intel-based PCI system
- Software Developers Kit for Windows 2000, 98, 95 and NT, Linux
- Easy to install, Microsoft Plug and Play
- FCC and CE Approved

Many sample applications included.



XQuad



X VCR



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16 Camera Inputs

Configure and switch up to sixteen cameras with FirstLine XPress Pro. Any combination of color or monochrome cameras can be configured. Supports both NTSC and PAL standards.

High-Quality Wavelet Video Compression

XPress Pro utilizes wavelet video compression, which offers improved quality at high compression rates.

Independent Video Channels

The XPress Pro adds a second video decoder for increased performance. The second video channel can be used to independently select a full-frame, real-time video preview from any of the video inputs. When in switched preview mode, the second video decoder provides for a greater number of captured images per second.

Video Display Options

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

Video Outputs

Video can be displayed on a separate monitor or recorded to a VCR. Four switched composite outputs, one with OSDs, are displayable from either live or recorded video.

Programmable Control

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

Activity Design

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

Alarm Triggers

Up to 16 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 Pro 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

Comes with full support for MS Windows 2000, 98/95 and NT, Linux. 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 III computers.

Cost Effective

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

First Line XPress Pro Overview

- PCI bus mastering wavelet video compression, decompression and capture board
- PCI bus rev 2.1 compliant

Video Input

- 16 composite inputs
- 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 Input

- 4 switched composite outputs (one with OSD)
- Real-time video decompression and playback
- NTSC or PAL, software selectable

I/O Triggers and Controls

- 16 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 recorded video
- Variable video playback rates (forward/backward)
- Supports any digital storage media

Processing Control / Activity Detection

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

Software Included

- MS Windows 2000, 98/95, and NT drivers, Linux drivers
- First Line XPress XPG video capture and I/O control application
- First Line XPress XVCR digital video compression application

Software Developers Kit (optional)

- MS Windows 2000, 98/95, NT and Linux DLLs
- Extensive sample applications and source code
- First Line XPress XPG application source code
- First Line XPress XVCR application source code

Physical / Environmental Parameters

- Small form factor--181mmx107mm
- Low power consumption: 9.7W-1220 mA (5V), 300 mA (12V)
- Operating temperature: 0°C to 70°C
- CE and FCC approved

Ordering Information

- XPress Pro--part #3305
- XPress Software Developers Kit--part #3340

Cabling

- Wide variety of standard and custom cables available



9855 Crosspoint Blvd., Suite 126 | Indianapolis, IN 46256 USA

PH: +1-317-845-9242 | FAX: +1-317-845-9275 | E-mail: info@integraltech.com

Visit our web site at www.integraltech.com