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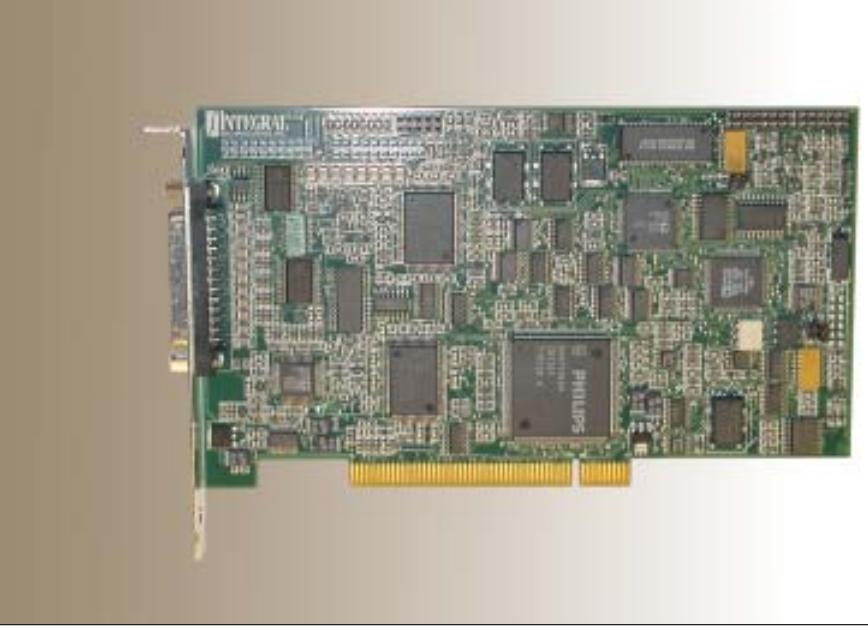
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XPress

Multi-channel, PCI bus, Wavelet video compression board

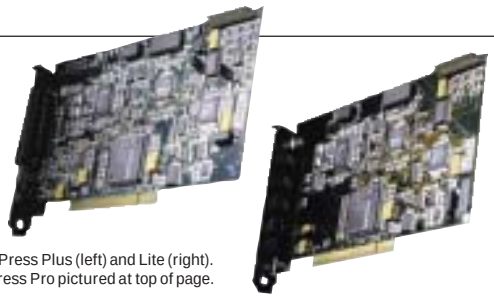
XPress is a low-cost PCI-bus video capture and compression engine that combines the capabilities of fast switching between video inputs, on-board DSP for video motion detection, and digital recording and viewing of video from four to 16 cameras simultaneously. Video can be switched, controlled, digitized, stored, recorded, and played back in a variety of flexible options. The XPress Wavelet hardware-based codec provides real-time compression ratios from 8:1 to 200:1 and higher.

XPress Family Key Features

- Multi-channel Wavelet video compression
- Real-time digital video compression (8:1 to 200:1 and higher)
- Fast video switching
- Four, eight, or 16 video inputs: composite and S-Video, NTSC and PAL
- Composite or S-Video outputs
- Real-time video decompression and playback
- Software playback of video while continuing to record compressed video
- Eight or 16 alarm inputs
- Video displayed on an analog video monitor and VGA monitor
- One alarm output
- DSP-controlled activity detection
- Low-cost digital CCTV and time-lapse recording
- RS-485/RS-232 serial port
- Installs into any Intel-based PCI system
- Software Developers Kit (Windows 9x/ME/NT4.0/2000/XP)
- Easy to install, Microsoft Plug and Play
- FCC and CE approved

Applications

- Image analysis
- Scientific imaging
- Microscopy
- Law enforcement
- Video surveillance
- Traffic control
- Medical imaging



XPress Plus (left) and Lite (right).
XPress Pro pictured at top of page.

LID00009120Z

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XPress

Multiple Camera Inputs

Configure and switch up to four (XPress Lite), eight (XPress Plus) , or 16 (XPress Pro) cameras. Any combination of color or monochrome cameras can be configured. XPress supports both NTSC and PAL standards.

High-Quality Wavelet Video Compression

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

Programmable Control

XPress provides programmable control to trigger video surveillance on alarm or event, to initiate a pre-programmed video sequence, or to control manual video observation. XPress 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 (Plus and Lite) or 16 (Pro) 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.

Capturing, Storing, and Printing Images

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

Extensive Software Support

XPress comes complete with full support for Windows 9x, ME, NT 4.0, 2000, and XP. The included software allows for full control of capture, compression, and playback of all video inputs. An optional Software Developers Kit offers developers and integrators the flexibility to develop custom applications.

Cost Effective

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

Summary of Features

Feature	PRO	PLUS	LITE
Camera Inputs	16	8	4
Record Frame Rate	20*	12	12
Full-Frame Preview	Yes*	No	No
Alarm Inputs	16	8	8
Video Output	Yes	Yes	No
OSD on Output	Yes	No	No
RS-232/RS-485	Yes	Yes	No
Activity Detection	Yes	Yes	Yes
Software Playback	Yes	Yes	Yes

*Full-frame, full-resolution preview on the XPress Pro limits recording to 12 images/second.

Specifications

Video Input
- Multiple inputs, selectable through software control
- NTSC or PAL, software selectable
- CCIR-601 digitizing resolution
- Color and monochrome
- Genlocks to any NTSC/PAL video source
- 24/16/15 bpp RGB or YUV 4:2:2 color digitization

Video Output (Pro and Plus only)
- One switched composite output, with OSD on Pro
- Real-time video decompression and playback
- NTSC or PAL, software selectable

Video Compression and Playback
- Wavelet compression ratios from 8:1 to 200:1 and higher (typical CCTV time-lapse application: 72 hours = 8 GB)
- 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 (Pro and Plus only) and in a resizable video window on a VGA monitor (Pro, Plus, and Lite)
- Fast random access to recorded video
- Variable video playback rates (forward/backward)
- Supports any digital storage media

I/O Triggers and Controls
- Multiple input triggers – software definable combination of Normally Open or Normally Closed
- One TLL output trigger (Lite) or one optically isolated TLL or Opto output trigger (Pro and Plus)

Processing Control/Activity Detection
- On-board DSP
- Control of video inputs, compression ratios, activity, and motion detection

Software Included
- Windows 9x/ME/NT4.0/2000/XP drivers
- Linux drivers
- XPress XPG video capture and I/O control application
- XPress XVCR digital video compression application
- XPress VB-VCR Visual BASIC digital VCR application

Software Developers Kit (SDK)
- Windows 9x/ME/NT4.0/2000/XP DLLs
- Linux DLLs
- Sample applications and source code
- XPress XPG application source code
- XPress XVCR application source code
- VB-VCR Visual BASIC application source code

Physical and Environmental Parameters
- Small form factor – 181 mm x 107 mm
- Low power consumption
- Operating temperature: 0°C - 70°C (32°F - 158°F)
- CE and FCC approved

Ordering Information
- #3305 XPress Pro
- #3310 XPress Plus
- #3315 XPress Lite
- #3340 XPress SDK

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