# FlashBus™ MV Pro

PCI VIDEO FRAME GRABBER

Integral Technologies' ambition was to give OEMs a competitive advantage in the machine vision industry with a PCI video frame grabber that combines affordability, versatility and the highest quality. The result is the FlashBus MV Pro.

Dual simultaneous video inputs, usually an expensive option, are a standard feature on FlashBus MV Pro. Integral's frame grabber then goes even further. It handles composite, RGB, S-Video and RS 170 sources.

Creating crystal clear images is the mission of FlashBus MV Pro. It supports 60 fps **progressive scan cameras** and virtually eliminates the blur of moving objects.

Maintaining the Integral tradition of excellence in both hardware and software, FlashBus MV Pro is **easy to install and operate.** Integral continues its industry-leading quest for **full compatibility** — this bus-mastered board works with nearly any machine. The Software Developers Kit is designed for Microsoft Windows 3.1, 95, 98, NT and for OS/2. Should technical support be needed, Integral's team of software engineers gives you immediate attention.

Quality, versatility and affordability — the distinguishing characteristics of FlashBus MV Pro.
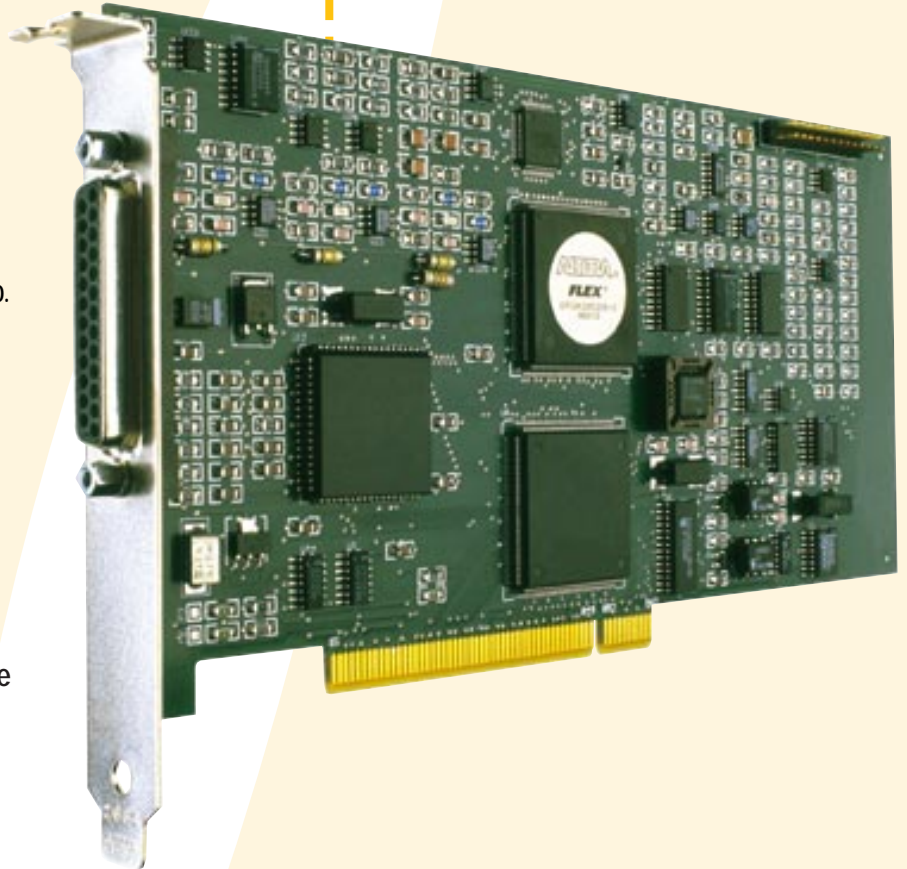
APPLICATIONS

➤ Machine Vision

➤ Scientific Imaging & Image Analysis

➤ Law Enforcement

➤ Security & Access Control

➤ Biometric Identification

ALSO AVAILABLE:

FlashBus™ MV plus

FlashBus™ MV lite

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TECHNOLOGIES, INC.

FlashBus™ MV PRO

PCI VIDEO FRAME GRABBER

FlashBus MV Pro is a high-speed, low-cost, PCI bus-mastering frame grabber designed to capture 8 bits-per-pixel monochrome and 24 bits-per-pixel color video in real time to system memory. FlashBus MV Pro was specifically developed for applications requiring very high quality, high-speed image capture such as machine vision, inspection, scientific imaging, medical imaging and other business applications.

Bus Mastering Performance

Taking advantage of its high-speed PCI-based bus-mastering capabilities (up to 132 Mbytes/s), FlashBus MV Pro delivers consecutive frames of video in real time into system memory while the CPU is free to operate on other applications.

Dual Stream Video and Programmable Input MUX

FlashBus MV Pro has two channels that support the DMA transfer of dual real-time video streams directly to the system or VGA memory. Both streams of video can be transferred and captured simultaneously into memory, enabling very high-speed image acquisition and processing by the host CPU. A programmable video MUX enables selecting the desired video input from a wide variety of RGB, Composite, S-Video and RS170 sources.

High Quality Video Capture

FlashBus MV Pro separates the RGB and RS170 video path from the composite and S-video circuits to produce extremely accurate, high-quality imaging. The superior analog circuits provide wide bandwidth, high contrast and extremely sharp detail. Very low pixel jitter ensures accurate representation of horizontal detail. Input LUTs provide maximum video control.

Progressive Scan Camera Support

FlashBus MV Pro has support for the capture of non-interlaced video from progressive scan cameras, which eliminates blur seen in images of moving objects captured and transferred by standard CCD cameras. FlashBus MV Pro supports progressive scan, dual channel progressive scan, long-term integration, asynchronous reset and other unique and standard camera features.

External Triggers

FlashBus MV Pro accepts up to eight input triggers so that image acquisition can be synchronized to external events. Interrupt and polled input triggers are available to control external events in a technique best suited for application execution. FlashBus MV Pro also provides up to eight TTL level output triggers for controlling external devices. It contains an on-board programmable sync generator for external camera genlock and AVR support.

Programmable Intelligence

FlashBus MV Pro incorporates on-board, programmable intelligence to guarantee accurate strobe synchronization and robust trigger and serial I/O. Programmable intelligence relieves the host CPU of the details of counting sync or servicing serial interrupts. Bit level control of the I/O triggers and the serial port provides real-time control. FlashBus MV Pro supports hardware video capture with no CPU intervention.

Software Developers Kit

A comprehensive Software Developers Kit provides programmable access to the features of the FlashBus MV Pro hardware architecture. The kit includes DLLs for Microsoft Windows 3.1, 95, 98, NT, IBM OS/2 DLLs, TWAIN and MCI drivers, a Video-for-Windows driver and sample applications with source code.

Included with FlashBus MV Pro is FBG™, a Windows-based application that automates the capture of video images with full software control of most industry-standard video cameras.

CPU and Software Compatibility

FlashBus MV Pro provides a PCI 2.1 interface having both slave and master mode compatibility. FlashBus MV was designed to be fully compatible with Pentium, Pentium Pro, MMX and Pentium II computers. FlashBus MV Pro is fully software compatible with the entire line of FlashBus products and runs all of FlashBus software.