

FlashBus Spectrim Lite

Bus-mastering frame grabber for cost sensitive applications

Integral Technologies introduces FlashBus Spectrim Lite, a low-cost, bus-mastering video capture board designed with OEM requirements in mind. FlashBus Spectrim Lite utilizes the Philips TriMedia™ video processor and enhanced video digitization for high-quality color image capture. FlashBus Spectrim Lite is a perfect general purpose frame grabber for cost sensitive applications.



Key Features

- Bus-mastering video acquisition
- Philips TriMedia™ Video Processor
- Real-time transfer of video to system or display memory
- 16 MB SDRAM Frame Buffer
- High-quality video scaling to arbitrarily sized windows
- Simultaneous preview/capture from up to 4 composite inputs
- CCIR and square pixel capture resolution
- NTSC and PAL video formats
- Area of interest transfers to/from system and on-board memory
- Real-time image flip, rotate, and mirror
- Windows 98, ME, 2000, 2003, XP, Vista and Linux drivers
- Windows-based FBG video capture application
- Optional SDK with sample applications
- Graphical overlay and alpha blending support

Applications

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

FlashBus Spectrim Lite

OEM Highlights

Bus-Mastering Performance

FlashBus Spectrim's high speed bus-mastering capability delivers real-time video data to system or display memory, without intervention from the host CPU.

TriMedia™ Video Processor

Equipped with the Philips TriMedia Video processor and a 16 mb SDRAM frame buffer the Flashbus provides smooth interpolated scaling, hardware overlay, and real-time video rotation.

High-Quality Video Capture

FlashBus Spectrim provides high-quality capture from up to four composite video sources simultaneously in NTSC or PAL format. Video can be captured and stored in either square pixel or CCIR-601 resolutions, and can be scaled to any arbitrary size.

Software Developers Kit

As with all Integral Technologies' frame grabber products, a comprehensive software developers kit is available that provides access to the features of the FlashBus Spectrim Lite hardware. The SDK includes DLLs for Microsoft Windows 9x, ME, 2000, 2003, XP, Vista and Linux operating systems. Source code samples are included in both C and Visual BASIC to provide insight to various hardware functions of FlashBus Spectrim Lite. Integral Technologies provides free technical support to developers using the FlashBus Spectrim SDK.

Specifications

BUS FORMAT

PCI 2.2 compliant
Universal PCI connector

VIDEO INPUTS

3 Composite inputs
1 S-Video input
BNC or S-Video connector

VIDEO DIGITIZATION

NTSC M, NTSC N, NTSC 4.43,
NTSC-Japan,
SECAM, PAL BGDHI, PAL N, and
PAL M format support
ITU-601 digitization
Software programmable control of
offset, gain, hue, and saturation
EEPROM for storing configuration
and calibration settings

VIDEO ACQUISITION

Philips TriMedia video processor
Smooth interpolated scaling to
randomly sized windows
Bus-mastering video transfers to
system or display memory
Hardware overlay of graphics over
video
RGB 32/24/16/15/8 and YUV 4:2:2
pixel formats
Area of interest transfers to and
from on-board and system memory
16 MB SDRAM frame buffer
Real-time image flip, mirror, or
rotate

I/O CONTROL

Optically isolated output trigger for
flash interface
1 general purpose input trigger
1 general purpose output trigger

SOFTWARE DEVELOPERS KIT

Windows 98, ME, 2000, 2003, XP
Vista and Linux DLLs
Video for Windows drivers
Direct Show support
Visual Basic support
TWAIN support
MCI support
Sample application source code
Video for Linux 2 support

VIDEO CABLES

Composite, S-Video, and trigger
cables available
Custom cables and connector
pinouts available upon request

PHYSICAL AND ENVIRONMENTAL

Small form factor - 2.5" x 4.721"
Low power consumption: 4W
FCC and CE approved

ORDERING INFORMATION

Spectrim Lite: #3043
Spectrim SDK: #3430