

PixelINK

PL-A544 FireWire Video Converter

Highlights

The PixelINK™ PL-A544 is designed to capture and convert NTSC/PAL video streams into digital images, with full software control of the video input. The FireWire interface allows fast installation using a single cable to carry all signals between the Video Converter and the host computer. The PL-A544 Developer's Kit includes all of the software and hardware necessary for customized application development.



Features

- Converts analog video to **uncompressed** digital video
- Simple to use, flexible and scalable, reducing development and support costs without sacrificing time to market
- FireWire (IEEE 1394) digital interface simplifies installation
- One cable can transmit power, control and data
- Plug-and-play operation using the PixelINK Video Capture Application
- Full software control—integrated, flexible control of all image capture functions:
 - Image capture resolution
 - Deinterlacing mode
 - Hue, U/V Saturation, Brightness, Contrast
- Input Sources:
 - 1 S-Video jack
 - 1 BNC Y/C Composite jack
- Control Options:
 - 9-pin RS-232 (Windows platforms only)
- Supports 3rd party software applications via three industry standard software interfaces:
 - DirectShow®
 - TWAIN™
 - QuickTime, including real-time compression

Applications

- Microscopy
- Medical and biometric imaging
- Video conferencing systems
- Surveillance and security cameras
- Webcasting systems
- Photo ID systems



General Description

The PL-A544 Series uses the FireWire (IEEE 1394) digital bus protocol to streamline the capture, digitization and conversion of analog video from a variety of NTSC/PAL sources, including industrial video cameras, camcorders and medical video devices. One FireWire cable supplies power, PC control and real-time video streaming capabilities to an attached camera, dramatically simplifying the installation process.

The PL-A544 provides an **uncompressed** data stream, resulting in the highest possible image quality.

The PL-A544 Developer's Kit offers an extensive Application Program Interface (API). This API is designed to simplify the most common tasks associated with configuring, controlling and selecting the module's two NTSC/PAL video inputs. Windows applications can also leverage the advanced command and control capabilities to enable direct communication with the attached imaging device via RS-232 connectors.

The PL-A544 is compatible with Windows® 98SE, Windows® 2000, Windows® Me and Mac OS 9..

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Configurations

Starter's Kit (PL-A544-STA)

- PL-A544 Video Converter
- Starter's Kit software
 - Windows® 98SE, 2000, Me and Mac OS 9 Drivers
 - TWAIN Interface
 - PixelINK Video Capture Application
- Quick start installation guide
- Online user's manual
- License agreement and warranty card

Developer's Kit (PL-A544-DEV) [Windows Platforms only]

- All elements from the Starter's Kit
- All necessary software & documentation to create custom applications
 - Extensive API
 - Examples of applications (upon request)
 - Access to technical support
- OHCI PCI card
- 2 meter 6-pin FireWire cable

Accessories

A wide variety of accessories are available with these converters, including cables, power supplies, adapter cards, FireWire repeaters, tripods and mounts. If viewing online, [click here](#) to view the accessories list.

Specifications

Imaging Chip

Type Video capture processor and scaler
 Image Control Brightness, Contrast, Hue, USaturation, VSaturation, Deinterlace (Bob/Weave)
 Max. Frame Rate RS170/NTSC: 30 fps; CCIR/PAL: 25 fps
 Supported Video Standards:

NTSC	PAL
640 × 480	768 × 576
320 × 240	384 × 288
160 × 120	192 × 144

Control Options

9-Pin RS-232—transparently maps to the next available COM port
 [Windows Platforms Only]

Video Input Sources

- 1 BNC Y/C Composite jack
- 1 S-Video jack

Electrical

Voltage 8 V–30 V
 Power 3 W typ. (250 mA at 12 V)
 Source FireWire cable or DC jack

Physical

Operating Temp. +5°C to +60°C
 Weight 585 g
 Dimensions 5.7 × 1.2 × 4.8 inches (W × H × D)
 Compliance FCC Class B, CE

Interface

Operating System Windows® 98SE, 2000 and Me; Mac OS 9.x
 Interface Type 2 × IEEE 1394a, 6-pin ports (400 Mbits/s)

Recommended System Requirements

- Microprocessor — (Windows) 400 MHz Pentium® III or equivalent, (Mac) 400 MHz PowerPC®
- 128 MB system RAM
- 10 MB hard drive free space (Starter's Kit)
- Video card with 24 or 32 bit True Color graphics
- 8 MB of video memory

To order your PL-A544

Contact

Vitana Corporation
 2500 Don Reid Drive
 Ottawa, Ontario, K1H 1E1
 Canada

Phone: (613) 247-1211
 Fax: (613) 247-2001

Email: sales@pixelink.com
 Web Site: www.pixelink.com

