

# 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

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