

TARGA2000

TARGA2000 for Macintosh

TARGA 2000 transforms your desktop computer into a powerful non-linear digital video editing system.

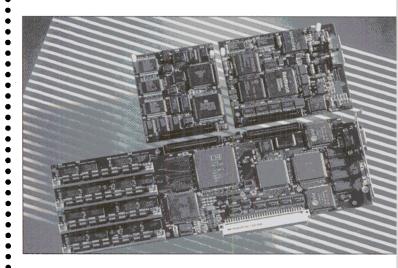
About Truevision

Truevision is the leader in desktop video for business and broadcast and offers a full range of videographics products for Apple Macintosh computers and Windows-based PCs. Truevision pioneered the videographics industry in 1984 and today is the market and technology leader.

TARGA 2000 Defined

The Truevision TARGA 2000 videographics line provides a cross-platform, open systems solution for professional desktop non-linear video editing and multimedia authoring applications. The TARGA 2000 digitally records high-quality video and audio to disk. The TARGA 2000 standard configuration supports NTSC and PAL video standards and Composite video or S-video input and output formats. In addition the TARGA 2000 supports stereo CD and DAT quality audio input and output. Standard desktop video software applications can be used to manipulate the digital footage captured with the TARGA 2000, and played back on the integrated desktop and output to tape.

The TARGA 2000 Pro will offer NTSC and PAL component video input and output for the demanding professional video user. A TARGA 2000 Pro module will be available for field-upgrading the standard TARGA 2000 to the Promodel.



Key Features

Full screen, full motion video capture and playback at 30 frames (60 fields per second) for NTSC, and 25 frames (50 fields per second) for PAL

CCIR 601 resolution output (and input with the Pro upgrade)

16-bit CD/DAT-quality stereo audio simultaneously captured and synchronized to video

Real-time variable Motion JPEG compression with dynamic quantization factor (Q-factor)

Support of independent Macintosh and video monitors to allow simultaneous preview of video output

Truevision advanced hardware architecture for superior video quality and accelerated processing

QuickTime 2.0 compatible

Optional accelerated transitions for Adobe Premiere

Video capture plug-in for Adobe PhotoShop

Genlock via separate sync input or to video source



TARGA2000

TARGA 2000 for Windows PCI

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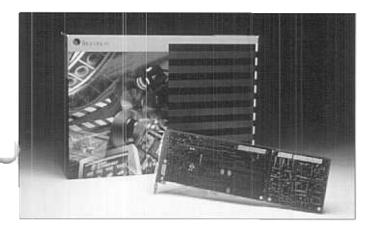
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The TARGA 2000 Pro offers NTSC and PAL component video input and output for the demanding professional video user. The TARGA 2000 Pro Module enables users to field-upgrade the standard TARGA 2000 to the Pro model.

Special Requirements

For special requirements, Truevision also supports advanced applications of TARGA 2000 for VARs, OEMs, and ISVs through its Developer Services and OEM Engineering groups.



Key Features

PCI plug and play, hassle free installation, with superior PCI performance.

Full-screen, full-motion video capture, record-to-disk, and playback at NTSC (30 frames/60 fields per second) and PAL (25 frames/50 fields per second)

Real-time, variable motion JPEG compression with adjustable dynamic Q factor

Accelerated WindowsTM 3.1 (soon Windows 95^{TM}) drivers offering integrated, true-color, non-interlaced desktop up to 1152×870

Video-in-a-window on Windows desktop and Video-out-awindow for printing full-screen video to tape

Simultaneous output of Composite Video and Y/C (S-video)

Synchronized stereo audio input and output up to 44.1 KHz (CD quality) or 48 KHz

Genlock via separate sync input

Compatible with all Microsoft® Video for Windows™ (VFW) applications

Includes all audio and video input/output cables

Option: Snap-off Composite Analog Module and snap-on TARGA 2000 Pro Upgrade to convert to TARGA 2000 Pro PCI-PC model

TARGA 2000 Pro PCI-PC

All above plus following to meet the demanding needs of video professionals:

Adds support for analog component video (GBRS and Y,R-Y,B-Y) in addition to standard Composite and Y/C (S-video) video and audio input/output

CCIR 601 video input/output resolutions: 720 \times 486 (NTSC) and 720 \times 576 (PAL)

TARGA 2000 Pro Upgrade PCI-PC

Snap-on module designed to upgrade a standard TARGA 2000 PCI-PC to a Pro model. Includes Component Pro audio-video I/O cables

System Requirements

TARGA 2000 PCI-PC supports true PCI-compliant systems. Compressed data throughput will vary with system hardware and software configurations. Minimum recommended system configuration includes: PCI fully-compliant motherboard with Pentium 66MHz or greater CPU, 16 MB system RAM, 500 MB system disk drive, high-performance SCSI controller, hard disk with desired capacity, and Windows 3.1 or Windows for Workgroups 3.11 plus DOS 6.2.

System Specifications

General

Card Size 12.3" x 4.2"

Bus Interface I PCI slot (non-shared PCI interrupt)

Power Consumption 27 Watts Regulatory Compliance FCC Class A Warranty l year

Memory

Frame Buffer Memory 4 MB VRAM Offscreen Memory 16 MB DRAM

Desktop Display

Desktop Resolutions 1152×870 , 1024×768 , 800×600 , 640×480

Vertical Refresh Rate Max 75 Hz (non-interlaced) Output Signals R,G,B, Hsync, VSync

Connector HD 15-pin VGA Female Receptacle

Analog VGA Loopthrough

10 bits for each primary **DAC** Resolution Gamma Correction Tables 256 x 10 bits for each primary

Pixel Size 24-bits

Video Window Manager

Video Resizer

Video Blender

Video Ports 3 (Video In, Video Out, Compression) Video Port Bandwidth

640 x 480 x 30 fps (37 MB/sec) 780 x 576 x 25 fps (44 MB/sec)

Hardware BLIT 100 MB/sec

On-Board DSP (Digital Signal Processor)

AT&T 3210 Floating Point DSP

Processor Clock Speed 50 MHz maximum Local Processor Memory 128 KB SRAM 237 MB/sec Memory Bandwidth

Video Input

Composite or Y/C (S-video) Video Inputs

Pro Model: Adds GBRS, G BR and Y, R-Y, B-Y

(NTSC Betacam, PAL SMPTE/EBU)

NTSC or PAL Video Standards

 640×480 , 648×486 (NTSC) - with Setup or without Video Resolution

768x576 (PAL)

Pro Model: 720 x 486 (NTSC), 720 x 576 (PAL)

ADC Resolution 8 bits Sampling Structure 4:2:2

Color Space Conversion YUV to 24-bit RGB Gamma Correction Tables 256 x 8 bits for each primary

Video Output

Video Outputs Composite and Y/C (S-video)

Pro Model: Adds GBRS, GBR and Y, R-Y, B-Y (NTSC Betacam, PAL SMPTE/EBU)

Composite (RCA) IVolt p-p, 75 Ohm

Y Signal: IVolt p-p, 75 Ohm S-Video (4 Pin DIN)

C Signal:+/- 350mv p-p, 75 Ohm

Component Y Signal: IV, p-p 75 Ohm

(Pro Model) R-Y Signal: 714mv/700mV p-p 75 Ohm B-Y Signal: 714mv/700mV p-p 75 Ohm

Genlock Input Genlock to video input or via external genlock input (Black

Burst or Composite)

Video Standards NTSC or PAL

Video Resolution 640×480 , 648×486 (NTSC) - with Setup or without

768 x 576 (PAL)

Pro Model: 720 x 486 (NTSC), 720 x 576 (PAL)

256 x 8 bits for each primary Gamma Correction Tables

Color Space Conversion 24-bit RGB to YUV

DAC Resolution 10 bits (Pro model: 8 bits/channel)

Audio Input/Output

Audio Inputs (RCA) Two unbalanced input channels configured as L&R stereo

channels with 20 K Ohm input impedence.

Audio Outputs (RCA) Two unbalanced input channels configured as L&R stereo

channels with 600 K Ohm input impedence.

ADC/DAC Resolution

Sampling Rate Up to 48 kHz, 64X oversampling Input Gain

0 to 20 in 1.5 dB steps Output Attenuation 0 to -45 dB in 1.5 dB steps

Frequency Response 20Hz to 20kHz at a sample rate of 48kHz

Video Performance

Bandwidth Greater than 6MHz @ -3db with sinx/x compensation filter,

greater than 7MHz @ -IdbB without filter.

Noise Floor Greater than -65dB pk to rms captured single frame, greater than

-55dB pk to rms throughput.

Differential Gain <1.5 degrees Differential Phase K-Factor (2T pulse) < 1% Component Delay < 20 nsec

Compression/Decompression

Standard Motion JPEG Processor LSI Processor Clock Speed 30 MHz Fields per Second 60 NTSC, 50 PAL Pixel Data Rate 15 MPixel/sec

Software

Supplied Windows 3.1 GDI Driver

AutoDesk 3D Studio ADI Rendering Driver and Animation

Recorder IXP IPAS program

VFW Support (Video Capture Driver, Playback Driver and

WAVE Audio Driver)

Mini-Applications & Control Panels for real-time capture and

display of video

Optional • DVR Developer Toolkit (PC Version)

Protected Mode using Phar Lap or DOS4GW Extender.

DVR Windows/NT Developer Toolkit

Future Support for Windows/NT and Windows 95 - est. 2H '95

Accessories

Supplied CA 204 Composite/S-video I/O cable

CA 206 VGA Loop-through Y cable

Pro & Pro Upgrade: CA-207 Component Pro I/O cable (includes two CA-203 adapter

cables for S-video I/O)

TARGA 2000 Pro Upgrade PCI-PC converts standard TARGA Optional

2000 to Pro model.

Contacting Truevision

Truevision Customer Satisfaction Center

Our Customer Satisfaction Center is available Monday through Friday 9:00 A.H. to 6:00 r.H. EST.

Telephone Contact

Sales Information, Technical Support, FaxBack System

U.S. and Canada (800) SAY-COLOR (729-2656)

Worldwide (317) 577-8788

The FaxBack System is an automated system that allows you to obtain immediate information on products, price lists, bulletins, and upgrades.

Fax Inquires U.S. and Canada

(317) 576-7770 Worldwide

(317) 594-2900

On-Line Services

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info@truevision.com htp.truevision.com E-Mail: RASTERHELP FTP Site AppleLink Third Party: RasterOps DirectAccess BBS (317) 577-8777

Settings: 8 bits, no parity. I stop bit WWW Sta www.truevision.com



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1-800-SAY-COLOR

TARGA 2000 Nubus Specifications

Video Input

Video Inputs Composite or Y/C (S-video)

Pro Upgrade: adds GBRS, GsBR and YPbPr

Video Standards NTSC or PAL
Video Resolution 648x486(NTSC)

768×576(PAL)

Pro Upgrade: 720x486(NTSC),

720×576(PAL)

ADC Resolution 8 bits
Sampling Structure 4:2:2

Color Space Conversion YUV to 24-bit RGB

Gamma Correction Tables 256 x 8 bits for each primary

Video Output

Video Outputs Composite or Y/C (S-video)

Pro Upgrade: adds GBRS, GsBR and YPbPr

Genlock Input Black Burst or Composite

Video Standards NTSC or PAL

Video Resolution 648x486, 720x486(NTSC) 768x576, 720x576(PAL)

Gamma Correction Tables 256 x 8 bits for each primary

Color Space Conversion 24-bit RGB to YUV

DAC Resolution 9 bits

Video Compression

Compression Motion JPEG

Processor LSI
Processor Clock Speed 55 MHz

Fields per Second 60 (NTSC), 50 (Pal)
Pixel Data Rate 44 MB/sec (sustained)

Quantization 24 bits/pixel

Audio Processor

Crystal Semiconductor (CS4216) 64x Oversampling,

Delta-Sigma ADC&DAC

Audio Input

Audio Input Stereo Line level

ADC Resolution 16 bits
Sampling Rate Up to 48 KHz
Software Gain Control 1.5dB per step

Audio Output

Audio Outputs Stereo Line Level

DAC Resolution 16 bits
Software Attenuation 1.5dB per step

Desktop Display

Desktop Resolutions 1152x870, 1024x768, 832x624,

640x870, 640x480

Hardware Pan/Zoom 2x to 16x

Vertical Refresh Rate Max 75Hz (non-interlaced)
Output Signals R,G,B,Hsync,Vsync, MID 0-2,
Sync on Green, or external sync

Connector HD 15 male plug
DAC Resolution 10 bits for each primary
Gamma Correction Tables 256 x 10 bits for each primary

Pixel Depth 24 bits

Video Window Manager

Video Resizer 2D filter Video Blender 256 levels

Video Ports 3 (Vid In, Vid Out, Compression)
Video Port Bandwidth 640x480x30fps (37MB/sec)

768x576x25fps (44MB/sec)

Hardware BLIT 100MB/sec

On-Board DSP (Digital Signal Processor)

Processor AT&T 3210 Floating Point DSP

Processor Clock Speed 55MHz
Local Processor Memory 128KB SRAM
Memory Bandwidth 237MB/sec

Memory

Frame Buffer Memory 4 MB VRAM
Offscreen Memory 16 MB DRAM

General

Card Size 12.75" x 4"
Bus Interface NuBus slot
Power Consumption 27 Watts

System Requirements

Quadra 650, 700, 800, 950, and 840AV, or PowerMac 7100/80, 8100/80, 8100/100 and 8100/110, 1-2 GIG Hard Drive with sustainable throughput of 4 MB/sec or better, 16MB RAM, and System 7.5 or later.

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On-Line Services

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Internet support@truevision.com

info@truevision.com

FTP Site ftp.truevision.com
AppleLink E-Mail: RASTERHELP

Third Party: RasterOps

DirectAccess BBS (317) 577-8777

Settings: 8 bits, no parity, I stop bit

120,14

WWWSite www.truevision.com



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