



# VideoPlex™ Pro VideoPlex™ YUV

Professional MPEG-2 Playback Boards

## The Professional Choice

Optibase's family of professional MPEG-2 playback boards lets you achieve superb video quality for complex video applications. VideoPlex Pro and VideoPlex YUV are designed for stability and reliability, ensuring that your video playback solutions keep running for extended periods of time with minimum maintenance. Boards feature closed caption as well as broadcast quality analog video and audio outputs, and are calibrated and tested for PAL or NTSC compliance.

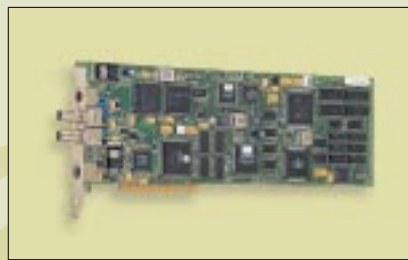
- **VideoPlex Pro** is the ideal solution for program insertion in cable-TV head-end and broadcast environments. When working in genlock mode, VideoPlex Pro offers top quality video out to composite monitors.
- **VideoPlex YUV** is designed for video playback in professional video projection applications. VideoPlex YUV has been carefully calibrated to give you excellent quality and stability.

## The Most Advanced Tools

The Real Time Decoder (RTD) Software Development Kit (SDK) provides a complete set of software tools for developing digital video playback applications. Developers and OEMs can join Progression™, Optibase's developers support program, and enjoy a wide range of software components designed for state of the art applications. By joining Progression, you'll benefit from such extras as C/C++, SDKs, Visual Basic enhancements, DirectShow Filters, source code for demo applications, conversion utilities and setup tools.

## System Requirements

- PC with a Pentium processor and a PCI bus
- 1 free full size PCI slot
- 16 MB RAM
- Windows 95 or Windows NT 4.0 service pack 3



VideoPlex Pro



VideoPlex YUV

## Features

- Supports Full D-1, Half D-1 and SIF resolutions
- MPEG-1 System, MPEG-2 Program and Transport streams
- Supports closed caption and EDS
- Up to 15 Mbits/s playback
- Up to 6 boards in a single PC
- Proven reliability and long-term playback stability
- Drivers for Windows 95 and Windows NT 4.0
- DirectShow in Pull and Push Modes





# VideoPlex™ Pro VideoPlex™ YUV



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General	VideoPlex Pro PAL	VideoPlex Pro NTSC	VideoPlex YUV PAL	VideoPlex YUV NTSC
<b>General</b>				
Power Consumption	5 V up to 1.8 Amp, -12 V up to 0.1 Amp, +12 V up to 0.25 Amp		5 V up to 1.9 Amp, -12 V up to 0.1 Amp, +12 V up to 0.25 Amp	
Video Standard	PAL B/G 4.43	NTSC M 3.58	PAL B/G 4.43	NTSC M 3.58
Frame Rate	25 fps	29.97 fps 24 fps (inverse telecine)	25 fps	29.97 fps 24 fps (inverse telecine)
Decoding Formats	MPEG-1 System, MPEG-2 Program, MPEG-2 Transport, MPEG-1, 2 Video only, Audio only			
MPEG Resolutions	MPEG-2 Full D-1, 720x576 MPEG-2 Full D-1, 704x576 MPEG-2 Half D-1, 352x576 MPEG-1 SIF, 352x288	MPEG-2 Full D-1, 720x480 MPEG-2 Full D-1, 704x480 MPEG-2 Half D-1, 352x480 MPEG-1 SIF, 352x240	MPEG-2 Full D-1, 720x576 MPEG-2 Full D-1, 704x576 MPEG-2 Half D-1, 352x576 MPEG-1 SIF, 352x288	MPEG-2 Full D-1, 720x480 MPEG-2 Full D-1, 704x480 MPEG-2 Half D-1, 352x480 MPEG-1 SIF, 352x240
Closed Caption/ Extended Data	Line 22 field 1 / Line 22 field 2	Line 21 field 1 / Line 21 field 2	Line 22 field 1 / Line 22 field 2	Line 21 field 1 / Line 21 field 2
Video Bit Rate	MPEG-2 D-1: 2-15 Mbit/s, MPEG-1 SIF: 0.5-5 Mbit/s			
Audio Decoding Format	MPEG-1 Layer 2			
Channel Decoding	Stereo, Mono, Dual Mono, Intensity Stereo			
Audio Sampling Frequency	32, 44.1, 48 kHz			
Quantization	16 bit			
Audio Bit Rates	32-384 Kbit/s			
<b>Video Outputs</b>				
Composite	BNC x 1 1.0 Vp-p 75 ohm			
S-Video	4 Pin Mini-DIN, Y: 1.0 Vp-p 75 ohm, C: 0.3 Vp-p (subcarrier burst), 75 ohm unbalanced			
Component	BNC x 3, Y: 1.0Vp-p, R-Y/B-Y: 0.7Vp-p, 75 ohm			
<b>Audio Output</b>				
	XLR x 2, 600Ω Balance, max 17 dBu			
<b>Video (Video measured at 8 Mbit/s Full D-1 resolution)</b>				
	with genlock		without genlock	
<b>Bandwidth</b>				
Composite	0-5 MHz ± 1 dB		0-4.2 MHz ± 0.75 dB	
Y			0-5.25 MHz ± 1 db	0-5 MHz ± 0.75db
R-Y			0-1.75 MHz ± 1db	0-1.75 MHz ± 0.5db
B-Y			0-1.75 MHz ± 1db	0-1.75 MHz ± 0.5db
<b>K-Factor</b>				
K-2T	1.5% or less		1.5% or less	1% or less
<b>Channel Delay</b>				
Y/C	Less than 26 nS			
Y/R-Y			Less than 15 nS	
Y/B-Y			Less than 15 nS	
B-Y/R-Y			Less than 10 nS	
S/R Ratio	More than 68 dB (0-5 MHz no filter)			
Y			More than 58dB (0-5 MHz no filter)	More than 62dB (0-5 MHz no filter)
R-Y			More than 58dB	More than 53dB
B-Y			More than 58dB	More than 53dB
<b>Video Input Signal (Genlock)</b>				
Composite / Black Burst	1.0Vp-p, 300mV burst level 75 ohm		(not applicable)	
<b>Audio (Audio measured at 44.1 kHz, 224 Kbit/s stereo)</b>				
Frequency Response	20Hz - 20kHz ± 0.5dB			
Crosstalk	Less than -56 dB		Less than -50 dB	
Distortion	Less than 1%			
Dynamic Range (at less than 1% distortion)	More than 66 dB			

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**Optibase Inc.**  
3031 Tisch Way, Plaza West, Suite 1,  
San Jose, CA, 95128 USA.  
Tel: +1-800-451-5101, +1-408-260-6760  
Fax: +1-408-244-0545  
Email: sales\_usa@optibase.com

**Optibase Ltd.**  
7 Shenkar St., P.O.B. 2170  
Herzliya, 46120 Israel.  
Tel: +972-9-9709-200  
Fax: +972-9-9586-099  
Email: sales\_intl@optibase.com

**Optibase Europe**  
Pew Hill House, Pew Hill  
Chippenham, Wiltshire, SN15 1DN, UK.  
Tel: +44-1249-460066  
Fax: +44-1249-461066  
Email: sales\_euro@optibase.com

Web: <http://www.optibase.com>

