

## Multi-channel Video Output Board



### VALENTINO™ Multi-channel Video Output Board Line

#### INTRODUCTION:

The valentino™ Multi-Channel Video Output Boards output 2, 4 or 8 (depending the model) independent video output channels for analog PAL or NTSC video formats. Each video output channel is set to one of five video output modes (Composite, S-Video or Component [RGB/YUV] video) in software. To avoid PCI-bus load, the board is equipped with full frame video memories for each video output channel, that keep the latest refreshed image stored. The valentino™ boards are designed for the standard PCI-bus (32bit/33MHz). All video outputs are available by a standard HD 62-pins connector on the board bracket.

Multiple "Multi-channel Video Output Boards" in one PC-system are allowed to extend the total number of video output channels for the computer system (256 boards theoretically). Each valentino™ board adds maximum 8 video output channels to the system.

The valentino™ line is supported for Windows<sup>®</sup>, Linux and QNX<sup>®</sup>.  
For software developers open source application sample code is provided.

#### TYPICAL APPLICATIONS:

- + Multi screen image presentation
- + Traveler information display
- + Industrial proces monitoring
- + Simulator realtime image display
- + Animation and simulation
- + Video wall application

#### Available models:

model:	# video output channels	indicated <sup>+</sup> refresh rate (PAL/NTSC)	support for			PCI 2.2 board
			CVBS	S-video	RGB/YUV	
VOB-2	2	25/30	+	+	+	+
VOB-4	4	14/17	+	+	+	+
VOB-8	8	6/7	+	+	+	+

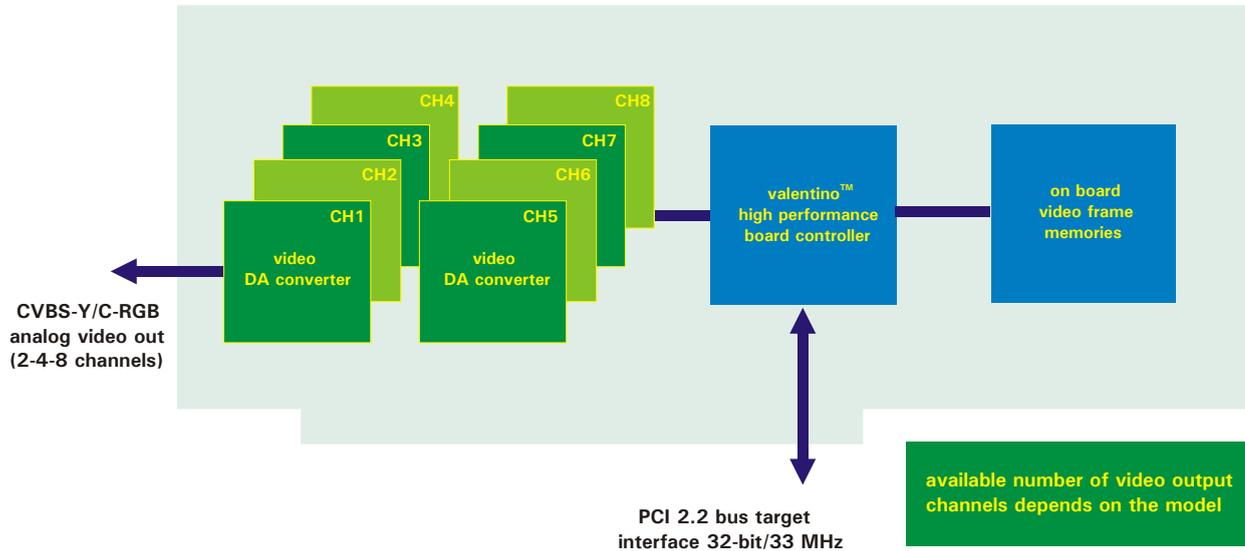
<sup>+</sup> *indicated refresh rate* gives an **indication** of the maximum number of refreshed-by-the-host images/sec per channel, the refresh rate per channel strongly depends on the host computer mother board, PCI bus load, operating system and application software



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## Features

SYSTEM OVERVIEW of the valentino™ Video Output Board



**Image Input Format**  
 RGB 24 bit/pixel (Windows BMP format)  
 YCrCb 4:2:2 16 bit/pixel

**Image Input Size**  
 NTSC field mode: 720x242 pixels  
 NTSC frame mode: 720x485 pixels  
 PAL field mode: 720x288 pixels  
 PAL frame mode: 720x576 pixels

**Analog Video Output Modes**  
 CVBS (composite video)  
 Y/C (S-video)  
 RGB, sync on video  
 YUV, sync on video  
 RGB, external sync

for each channel the video output mode is independently selected in software

**Color Bar** software selectable

**PCI**  
 PCI 2.2 compliant  
 3.3 and 5 V signaling environment  
 power supply 3.3 and 5 Volt  
 power consumption t.b.d.

**Board size**  
 160x174 millimeter (short size)  
 3.3 and 5 V slot universal board

**Connector**  
 one 62 pin High Density Sub-D connector on bracket

for more technical details, please refer to the hardware manual

**Ordering Information:**

valentino™ Multi-channel Video Output board

order number:	model:
<b>VOB-2</b>	2-channel video output board
<b>VOB-4</b>	4-channel video output board
<b>VOB-8</b>	8-channel video output board



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