PVS6600 series

2K x 2K graphics generators for real-time visualization

Main features

· Dual Video Output
· ISIS™/Digital, ISIS™/Analog and Sony DDM compatible
· Unix and MS Windows Software
· Hardware anti-aliasing
· 128 MB memory
· Pseudo-color/direct color

Consumer graphics cards lack performance and support for use in real-time, life-critical applications like Air Traffic Control that require a substantial amount of pixmap, label and track manipulations. Barco's PVS6600 series offers state-of-the-art PCI graphics adapters designed for applications requiring high-performance drawing with high-resolution video output. The PVS6600 family provides two independent video outputs. One output produces RGB video with resolutions up to 2048x2048 on a combined analog/digital DVI-I connector (compatible with both the Barco ISIS™ digital and analog flat panel and analog Sony DDM CRT display). The second video output provides analog video supporting display resolutions up to 1920x1200. The two independent outputs allow for a single card to support both the main and auxiliary displays, whereas the digital output offers the opportunity to upgrade from analog CRT displays to digital solutions (like the ISIS™ flat panel display) without the need for upgrading the graphics adapter.

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Technical specifications

Software support:

Barco's Industry-compatible X server supports the following Unix platforms:

- Solaris 7 and 8
- Linux (RedHat 7.2 and 8 distributions)
- DEC Tru64 4.0F and 5.X
- AIX 4.3
- HPUX 11.00 (Itanium II)
- Contact factory for others

Drivers available for Windows 2000 and Windows XP

X server configuration:

Each output can be programmed for independent resolution and treated as a separate X screen. The X server supports SSO (Single Screen Overlay), which allows using 8-bit overlay. The Barco X server also supports special capabilities such as multiple cursors, anti-aliasing and display recording.

Typical drawing performance using X windows:

10-pixel lines:
  8 million/s
Stippled 10x10 trapezoids:
  1 million/s
Text in 80-character strings:
  6 million characters/s
Text in 8-character strings:
  4 million characters/s
Random text characters:
  1.3 million characters/s
500x500 rectangles:
  17000/s
500x500 pixmap copy:
  3000/s
2048x2048 rectangles:
  1130/s
2048x2048 pixmap copy:
  275/s

Specifications:

PCI Specification:
  Revision 2.2 (32-bit/64-bit, 33/66 MHz)
Signaling:
  3.3 or 5.0 Volt automatic
Mechanical:
  Single height, single slot, PCI full length
Humidity:
  10 – 90 % RH non-condensing
Operational Temperature:
  0° to 60° C
Storage Temperature:
  -40° to 70° C
Power required:
  < 25 Watt
MTBF:
  > 100 000 Hrs (25° C ground benign)
Video Sync:
  Separate H and V on each output connector
Output 1:
  VGA connector, video resolutions up to 1920x1200
Output 2:
- DVI-I connector, video resolutions up to 2048x2048
- 50 Ohm analog RGBHV or dual-link DVI
Memory:
  128 MB
Pixel modes:
- 8-bit pseudo-color to 24-bit RGB
- 16-bit direct color
- 24-bit true color
Boot Modes:
- VGA (output 1 only)
- Fcode for Sun systems (output 1 or 2)
Other Features:
- Hardware anti-aliasing
- Functional replacement of PVS5600 (both analog and digital models)

Models:

- **PVS6600**: PCI video adapter with two independent outputs (one VGA and one DVI-A with 50 Ohm analog impedance)
- **PVS6611**: PCI video adapter with two independent outputs. Radar and video mixing at digital 2048 x 2048 resolution. Compatible with Barco RX radar scan converters and PVX video digitizers
- **PVS6000**: dual head combined analog digital PCI card up to HDTV resolution

Barco also supplies DVI-I to DVI (digital) and to 5xBNC (analog) cables specifically made for Barco ISIS™ and Sony DDM displays.

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