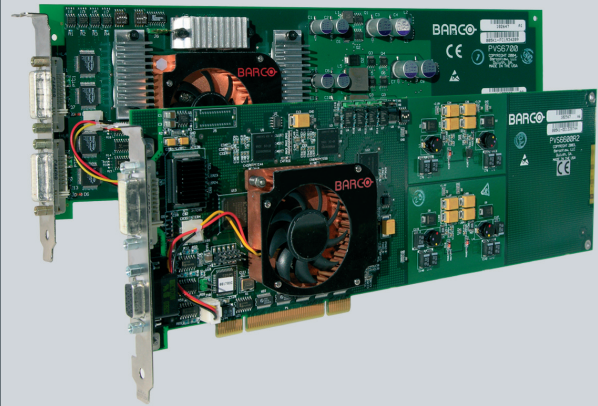


PVS-6 series



Main features:

- PCI or PCI express bus
- Dual Video Output
- ISIS/Digital, ISIS/Analog and Sony DDM compatible
- Hardware anti-aliasing
- Hardware accelerated Xinerama
- Hardware accelerated Dual State Xserver
- 128 – 512 MB memory
- Pseudo-color/direct color

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

Consumer graphics boards lack performance and support for use in real-time, life-critical applications like Air Traffic Control, because these applications require a substantial amount of pixmap, label and track manipulations. Barco's PVS-6 series offers state-of-the-art PCI and PCIe graphics generators designed for applications requiring high-performance drawing with high-resolution video output. The PVS-6 family provides two independent video outputs up to 2560 x 2048.

The two independent outputs allow for a single card to support both the main and auxiliary displays. Most models can produce 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 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 generator.

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Technical specifications

PCI models:

- **PVS-6000:** dual head combined analog & digital PCI card up to HDTV resolution
- **PVS-6600:** dual head with:
 - (1) combined analog (50 Ohm) & digital high-res (up to 2K5 x 2K)
 - (2) analog (75 Ohm) auxiliary (up to HDTV)
- **PVS-6611:** PVS-6600 with additional radar and video mixing at digital 2048 x 2048 resolution, compatible with Barco RX radar scan converters and PVX video digitizers
- **PVS-6700:** dual head combined analog & digital up to 2560 x 2048 resolution

Barco also supplies DVI-I to DVI (digital) and to 5xBNC (analog) cables which guarantee high quality images and which are specifically made for Barco ISIS and Sony DDM displays.

PCI Express model:

- **PCIe-6700:** dual head combined analog & digital up to 2560 x 2048 resolution

Model	Memory	Output 1	Output 2
PVS-6000	64 MB	DVI-I Single link digital / 75 Ohm analog Up to 1920 x 1200	DVI-I Single link digital / 75 Ohm analog Up to 1920 x 1200
PVS-6600/ PVS-6611	128 MB	DVI-I Dual link digital / 50 Ohm analog Up to 2560 x 2048	Sub DIS 75 Ohm analog 1920 x 1200
PVS-6700	256 MB	DVI-I Dual link digital / 50 Ohm analog Up to 2560 x 2048	DVI-I Dual link digital / 75 Ohm analog Up to 2560 x 2048
PCIe-6700	512 MB	DVI-I Dual link digital / 75 Ohm analog Up to 2560 x 2048	DVI-I Dual link digital / 75 Ohm analog Up to 2560 x 2048

Software support:

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

- Solaris, Intel & UltraSPARC
- Linux RedHat
- DEC Tru64
- AIX
- HPUX
- Contact factory for details

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)

Barco Xserver:

Each output can be programmed for independent resolution and treated as a separate X screen. The Xserver supports SSO (Single Screen Overlay), which allows using 8-bit overlay. The Barco Xserver also supports special capabilities such as multiple cursors, anti-aliasing, display recording, supervision and hardware related Xinerama. The second output can be used to show a selected region of interest of the first output. The region of interest can be panned.

Dual State Xserver:

The PCIe-6700, PVS-6700 and PVS-6600 support Barco's patent pending Dual State Xserver, allowing main and fallback applications to be hardware accelerated on the same card, with one being actively shown and while keeping Xserver resources separated in two states. The active state can be swapped through remote control and hot key.

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In search of continuous improvement

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Technical specifications are subject to change without prior notice



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