Visona™

Display server

Main features

- Low-cost connection to a remote application processor using a single, point-to-point 10/100BaseT connection or connection to a high-speed router.
- Designed for use in ATC with high MTBF, maintenance functions, fast boot-time, etc.
- No rotating media used
- Drives up to four analog and/or digital displays
- Supports TELLAR™ display recording with either local or network archiving.
- Uses open interface standards (network, X11 protocol, etc) for platform and OS independence.

The VISONA™ Display Server is Barco's latest proven graphics visualization hardware component that allows application programs running on any computer anywhere in a network to display visual information on high-resolution displays. VISONA™ acts as a networked graphics device that translates X11 protocol into video for up to 4 displays while interfacing with local input devices. VISONA™ eliminates the need for graphics generation on the application computer, thus increasing overall performance and allowing more advanced system architectures.

The separation of the graphics function from the application function offers interesting advantages. The application server can be placed in an equipment room hundreds of meters away. Upgrades of the application server can be done without changing any other part of the system. The application server is fully dedicated to compute-only operations since graphics controllers and input device interfaces are not required.

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Technical specifications

Software specifications
- Single X11R6.6 server supporting all graphics outputs
- Fast boot (time from power-on to full operation <75s)
- BITE with full SNMP support
- Network agents (both secure and non-secure)
- Multi-layer graphics support for transparent windows
- Anti-aliased line drawing (hardware assisted)
- Flexible configuration for multi-display cursor travel
- User configuration by external plug-in flash card
- X extension for Sony DDM or Barco ISIS™ display health and adjustment
- X Input extension
- Optional support for Barco's TELLAR™ display recording software
- Optional Barco Orthogon ODS TOOLBOX® Window Manager

Hardware specifications
- 2U 19-inch rack mount, 19-inch deep, optional rack slides, also for desktop usage
- PFC corrected power supply with 90 - 240 VAC Mains
- PS/2 or USB interfaces
- USB 2.0 interfaces for optional peripherals
- Configuration flash card storage capacity minimum 128 MB
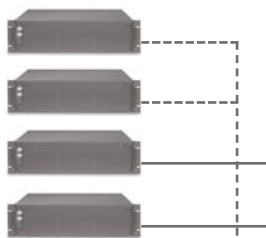- Local system memory 512 MB (optional 1 GB)
- 10/100BaseT Ethernet

- RS-232 with DB-9 for connection to ISIS™/Sony BITE interface
- Optional plug-in 8-port RS-232 box
- Optional additional 2 Ethernet ports, 10/100/1000BaseT
- Optional hot removable hard disk, 80GB

Environmental specification highlights
- Operating Temperature +10°C to +40°C
- Storage: -20°C to +60°C
- Relative Humidity, operating & storage: 10–85 % RH non-condensing
- EMC/EMI
  - FCC Class A Volume II part 15 subpart J
  - EN55022 limit A
- Immunity: EN50082-1
- Safety
  - CE2001
  - IEC950 (+ CB Certification)
  - UL1950
  - cUL950
- Workmanship according to ANSI/IPC A-610A level II
- MTBF calculated: > 60,000 hours
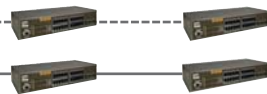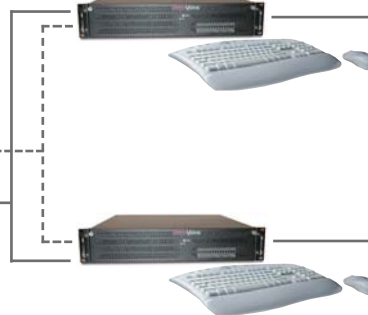- Acoustic noise: <45 dBA

VISONA™ display server concept

Data servers

VISONA™ display server

Main/AUX

Network

Application servers

Si**6**gma

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