

SMV-116

16 Auto-sensing Video and Audio HD/SD Multiviewer



Barco's 16-channel SMV-116 continues the company's long established tradition in designing top class, high-resolution multiviewers. The SMV-116 is scaled for smaller installations - but still delivers the full feature set for which Barco is renowned.

Features and benefits:

- Up to 16 auto-sensing monitored composite, SDI, HD-SDI, including two DVI-I video inputs (up to 3G 1080p): an ideal solution for compact monitoring of smaller OB-van, editing suites, master control or digital play-out installations
- DVI-I output up to 1080p60 (1920x1080) in 16:9, showing every possible pixel, and compatible with Barco's color calibrated 42" and 47" LCD displays
- Genlocked inputs for flicker-free and full frame operation
- Teletext, subtitles, AFD, WSS, VITC decoding & monitoring, so nothing is left unmonitored
- Up to 256 channels of embedded audio may be displayed as industry standard bargraphs with a choice of scales/ballistics.
- Up to 32 channels of external audio, analog or digital (AES/EBU and Dolby® Digital) may be displayed.
- Monitoring of any 4 pairs of audio streamed via the LAN
- Monitoring of up to 32 channels of demuxed audio, analog or AES/EBU: providing a full suite of audio monitoring in addition to an already complete video monitoring platform
- Alarms for video, audio and metadata with outputs to tallies, GPIOs, LAN and/or SNMP traps, connecting the SMV-116 with external monitoring systems and providing the operator the option of part-time unmanned monitoring
- Under Monitor Displays (UMD) via keyboard, LAN or serial cable supporting TSL and other protocols
- Clock display receiving time information via NTP network protocol or LTC
- 1 RU compact design, ideal for OB-vans and other space restricted installations
- Front panel control or optional 1U remote key panel
- User-friendly set-up via system menu/browser software
- Standard redundant power supply and all main cards hot-swappable for an unmatched uptime of your investment

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Technical specifications

Inputs

- Video – up to 16 auto-sense video inputs, any mix of:
 - Composite video PAL/NTSC, CVBS – 1 Vpp
 - S-video (Y/C)
 - Component video RGB / YUV
 - SDI – SMPTE 259M
 - Two DVI-I digital or analog component (up to 3G 1080p over 3Gbps)
 - HD-SDI – SMPTE 292M (up to 1080p)
 - Some connector related limitations apply
- Internal audio inputs
 - Embedded audio – up to 16 channels per video feed
- External audio
 - Analog – up to 32 channels (16 pairs)
 - AES/EBU – up to 32 channels (16 pairs)
 - Audio delivered via Barco’s NGM-164 audio metering unit, via LAN - up to 64 channels

Outputs

- One DVI-I output supporting resolutions up to 1080p60 (1920x1080, 16/9)
- Compatible with Barco’s LC-42, LC-47 and OV-D1 and OV-D2
- Video sources fully scalable and displayed in native format (4/3, 16/9)
- Audio monitoring output, up to 8 analog output channels as a standard feature
- Audio bars superimposed or external to video
- Genlocked video sources



Alarms

- | | |
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| <ul style="list-style-type: none"> • On video inputs <ul style="list-style-type: none"> – Video sync loss – Black – Freeze-frame or motion • On audio inputs <ul style="list-style-type: none"> – Embedded audio loss – External audio loss – Over level – Out of phase | <ul style="list-style-type: none"> • On metadata inputs <ul style="list-style-type: none"> – VITC loss – Teletext loss – Sub-titles loss – V-chip loss • With output to <ul style="list-style-type: none"> – Tallies – Borders – GPIOs – LAN – SNMP traps |
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Metadata decoding & monitoring

- Teletext
- Subtitles
- AFD driving aspect ratio
- WSS driving aspect ratio
- VITC



Barco’s SMV-116 offers unmatched input flexibility to monitor a wide variety of video, audio and metadata sources.

Other features

- UMD via
 - Keyboard (USB connector on front panel)
 - LAN via browser
 - RS232 / 422 supporting TSL, Image Video or other protocols
- Clock inputs via NTP or LTC
- Bitmap files can be uploaded and 4 may be displayed at the same time
- GPIO
 - 16 inputs
 - 8 outputs
- Multi-language support

Hardware

- 1 RU compact design
- Front panel control or 1U remote control via LAN
- Video Input card A: composite, SDI, DVI-I, S-Video, Component
- Video Input card B: as card A with HD-SDI
- Audio input or output card consumes 1 slot
- All input and output cards are hot-swappable
- Dual load sharing power supplies. Power supply and fan failure LED indicators on front panel.

Ref. no. R599022SS1009R002

Barco is an ISO 9001 registered company.
The information and data given are typical for the equipment described. However any individual item is subject to change without any notice.
The latest version of this product sheet can be found on www.barco.com

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