

mini series



sams

Professional and broadcast video/audio equipment

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DIGITAL video

HD/SD VIDEO DISTRIBUTION AMPLIFIER **HDVA^{1M}**

- High quality
- 1RU 8.5" x 100mm frame
- Auto EQ and redocking
- SMPTE: 1.5Gb/s, 540, 360, 270, 177, 143 Mb/s
- DVB-ASI at 270Mb/s
- 6 outputs
- An indication of the type and the presence of video signals at input

HDVA-3 is device in the 8.5" rack that equalize and reclock video signals over long distances (for the HD with 1694A cable up to 100m, the SDI with 1694A cable up to 200m). It is able to independently recognize the type of input signal (HD / SDI) and then adjust their work according to the type of signal. The device supports HD (1.5 Gb / s) and SDI (up to 540Mb/s), eliminating the need for more types of digital distribution amplifiers. The device has LED indication of power, and the types and the presence of input video signal.



DIGITAL video

DIGITAL VIDEO DISTRIBUTION AMPLIFIER WITH EQ AND REDOCKING **DVA^{104erm}**

- High quality
- Automatic cable equalization and reclocking
- SMPTE: 540, 360, 270, 177, 143 Mb/s
- 4 outputs
- Auto SMPTE
- An indication of the presence of the input signal

DVA-104erm is device from mini series of video distribution amplifiers with DVA-106er module. DA provide the equalization and reclocking features required for distribution of serial video over longer distances (up to 200m with Belden 1694A video cable). Device accepts both composite (143 and 147 Mb/s) and component serial standards (270 Mb/s), thus eliminating the need for different cards for component and composite applications. It is a designed to support wide screen 16:9 360Mb/s and 4:4:4 540Mb/s standards. Distribution is DVB-ASI compatible.



DIGITAL video

DIGITAL VIDEO DISTRIBUTION AMPLIFIER WITH EQ **DVA^{104em}**

- High quality
- Low cost
- 4 outputs
- Auto input equalization
- Ideal for short distance (< 30m)
- Transparent to all serial video data rates

DVA-104em is device from mini series of video distribution amplifiers with DVA-106e module. It is solution for Distribution of serial digital signal over short distances (up to 25m with Belden 1694A video cable) where the reclocking feature found is not required. The module is transparent to the different incoming signal data rates from 143 up to 540Mb/s. CD threshold adjust output "eye" monitor is included.



- Differential input
- 30 MHz bandwidth
- Cable equalization for up to 300m at 8 MHz
- Gain range $\pm 3\text{dB}$
- 6 outputs

The VA-16eq1m is 8.5" 1RU that provides hum removal and EQ for long cable runs of up to 300m. Device features 30MHz bandwidth, differential input and variable equalization for up to 300m (1000ft) of belden 8281 coaxial cable.



- Broadcast quality
- Converts YUV, RGB, CVBS or YC to digital video
- 12/10bit processing
- Fiveline adaptive 3D comb filter
- Processing delay - 1line
- Integrated Three 54MHz: Noise Shaped Video, 12-bit AD converter and 4 x oversampling
- Integrated automatic gain control with adaptive peak white mode
- CTI (chroma transient improvement)
- DNR (Digital Noise Reduction)
- EDH processing
- Automatic YUV pixel timing adjustment
- Input signal presence detection
- Pass or broadcast test in the case of incorrect video input
- Integrated Test Generator (Black, Color Bar)
- Easy setup with local control and LCD display



AD-12m converts composite or component analog video to SDI. With both available, composite and component (Y, Cr, Cb or RGB or YC) inputs, this unit is ideal for converting all types of analog video. Advanced and highly flexible digital output, enables high-quality conversion. "12bit 4x oversampling allows the A / D conversion of high-performance 10bit output. An intelligent adjustment system provides full digital filter frequency response, even in the composite signal. Fixed frequency 54MHz ADC and buses for all options, allows for very precise processing and digital filtering.

- 4 channels of monitoring conversion on one card
- Supports PAL and NTSC
- 8-bit conversion with 10-bit DAC and special output filtering to reduce artifacts
- Color bar test mode available with valid input signal
- Input indicator LEDs (one per channel)
- Input equalization for up to 300m of 1694A cable

The MDA-844m converts serial digital video signal to composite or YC analog video. This device is specially made for monitoring SDI video over analog monitor. With 4 composite or 2 YC outputs available, this module is perfect for converting SDI video sources. To check the track, the device has an integrated color bar test, which can be used only if the correct incoming signal. The presence of an incoming signal is indicated via LEDs. D/A fully differential path and 10/8 bit processing ensure that signal can be used in the most demanding broadcast and professional applications. Comprehensive user adjustable digital filtering ensures full frequency response even for a composite signal.



- Multiformat analog video output
- 8bit conversion with 10bit DAC and special output filtering to reduce artifacts
- Color bar test mode available with valid input signal
- Indicator LED
- Input equalization for up to 300m of cable

The DAM-3 converts serial digital video signal to composite, RGB, YUV or YC analog video. This device is specially made for monitoring SDI video. D/A fully differential path and 10/8 bit processing ensure that signal can be used in the most demanding broadcast and professional applications. Comprehensive user adjustable digital filtering ensures full frequency response even for a composite signal.



- Broadcast quality (10bit extended)
- Digital video output with embedded audio
- AES/EBU digital audio output
- Internal precision master clock 1ppm
- Superior jitter performance
- 26 different tests
- Auto Cable EQ exceeding 200m (usually 300m depend on cable quality)
- Easy setup with local control and LCD display

The MSG-2dam is SDI/AES signal generator. MSG-2 can be system reference in digital facilities with internal precision master clock 1ppm. Included tests are: bars 75%, bars+red 75%, bars 100%, bars+red 100%, red, green, blue, black, 50% field, 100% field, convergence, pluge, bounce, activeline, 10 steps, 10 mod steps, ramp, mod ramp, 2t 10t bar, pulse bar, sin(x)/x, multiburst 60%, sweep, check field, eq and pll. Audio adjustment are: frequency (0Hz-20Khz), output level for every channel (-63dbFS to 0dbFS) and audio click time for every channel.



- Broadcast quality (10bit extended)
- Analog component (YCrCb / RGB / YC) and composite CVBS output
- Digital video output with embedded audio
- AES/EBU digital audio output
- Digital or analog external genlock
- Internal precision master clock 1ppm
- Superior jitter performance
- 26 different tests
- Auto Cable EQ exceeding 200m (usually 300m depend on cable quality)
- Pal CVBS color framing and phase adjustment
- Easy setup with local control and LCD display
- 8.5" frame, suitable for field work
- Safety bar prevents bending of cables



The MSG-2am is multiformat signal generator. MSG-2am synchronize output test from external digital or analog genlock source. MSG-2am may also be system reference with internal precision master clock 1ppm. With both, digital and analog - composite and component (Y, Cr, Cb or RGB or YC) outputs available, this module is perfect as master video reference in combined digital and analog facilities. Provided adjustments for analog video are: Horizontal and Vertical Position, SC Phase and Color Framing. Included tests are: bars 75%, bars+red 75%, bars 100%, bars+red 100%, red, green, blue, black, 50% field, 100% field, convergence, pluge, bounce, activeline, 10 steps, 10 mod steps, ramp, mod ramp, 2t 10t bar, pulse bar, sin(x)/x, multiburst 60%, sweep, check field, eq and pll. Audio adjustment are: frequency (0Hz-20Khz), output level for every channel (-63dbFS to 0dbFS) and audio click time for every channel. Because of its size, is suitable for field work. Safety bar provides bending of cables.