



Video & Audio - Equipment

Zum mieten oder allenfalls kaufen – kontaktieren Sie uns

Inhalt

| | |
|--|----|
| TRICASTER – TC1 (Videomixer + Control Surface + Dante Lizenz) | 2 |
| NC-1 I/O Modul (8 Channel SDI//NDI Interface) | 6 |
| V-Mix Videomixer (V-Mix Pro @ HP Z820 + Blackmagic Decklink) | 7 |
| Audio Interface (24-Ch Digital Mixer/USB Multi-with Wireless Control)..... | 8 |
| SDI Kreuzschiene + Smart and Master Control Panel (40x40, 12G SDI)..... | 9 |
| KiPro Rack (1 HE Recorder)..... | 11 |
| KiPro (Portable Recorder + Bag) | 13 |
| Clock & Timing (Display + Clock + 1 HE Control + Unit Ethernet to LTC Generator) | 15 |
| POE+ Switch (Netgear PoE+ Switch AV Line M4250-10G2F-PoE+ 12 Port + Single Mode SFP) | 16 |
| POE+ Switch (Netgear 8-Port Gigabit Ethernet POE+ Smart Managed Pro Switches with Cloud Management + Single Mode SFP) | 16 |
| Messgerät/Waveform (Imagine TVM 9150 PKG + Audio Option TVM-A3-OPT 2-F) | 17 |
| Abhören (Sonifex Reference Monitor, HD-SDI Emb Option & 4 Stereoeingänge) | 18 |
| Prompter (Autoscript EPIC-IP19XL 19" PROMPTER + 24" TALENTSCREEN) | 19 |
| Funkmikrofon (SET Sennheiser EM 3732-II, SK 5212-II, SKM 5200-II) | 20 |
| IN EAR (SET Sennheiser SR 2050 IEM und SR 2000 IEM, 3x EK 2000 IEM-BW) | 22 |
| LYNX Frame und Wandler (LYNX 5000 Frame + Yellobrick)..... | 24 |
| | 25 |
| Diverse Tools + Wandler , Quad Splitter, USB Capture..... | 28 |
| Studio Monitor JVC DT-V24G1Z (24" 3G HDSDI Monitor) | 31 |
| Studio Monitor Sony LMD-A240 (24" LCD 3G HDSDI Monitor) | 32 |
| Der WUXGA-Monitor (1.920 x 1.200) der LMD-A-Serie im leichten und schlanken Design..... | 32 |

TRICASTER – TC1 (Videomixer + Control Surface + Dante Lizenz)



Technical Specifications



| | |
|------------------------------|---|
| Video Input | 16 x simultaneous external video inputs, supporting any combination of compatible sources in resolutions up to 4K UHD at frame rates up to 60fps (2160p 59.94) |
| Network Video Input | 16 x IP video inputs via NDI®, resolution-independent, with support for key and fill |
| SDI Video Input ¹ | <p>4 x 3G/HD/SD-SDI connections supporting video input in any combination of standard formats, resolutions, and frame rates²</p> <ul style="list-style-type: none"> • 1080p: 59.94, 50, 29.97, 25 • 1080i: 59.94, 50 • 720p: 59.94, 50, 29.97, 25 • 576i 50 • 480i 59.94 <p>¹Optionally supports up to 16 simultaneous 3G/HD/SD-SDI video inputs or quad-link 3G-SDI video inputs (4K UHD) via network integration with applicable NewTek NC1 conversion modules</p> <p>²Available frame rates determined by session video standard (NTSC or PAL)</p> |
| PTZ | Support for up to 8 simultaneous Pan-Tilt-Zoom (PTZ) robotic cameras via serial and network protocols, including RS232, RS422 and IP, with integrated controls and preset system |
| Skype TX | Native support for up to 2 simultaneous Skype® video call inputs via Skype TX software integration, including tally and Talk Back communication |
| Video Output | Configurable for up to 4 independent video mix outputs, with simultaneous delivery via IP and SDI |
| Network Video Output | <p>IP video output via NDI, optionally configurable for:</p> <ul style="list-style-type: none"> • 4 x independent video mix outputs • 1 x 4K UHD video mix output |
| SDI Video Output | <p>4 x 3G/HD/SD-SDI connections, optionally configurable for:</p> <ul style="list-style-type: none"> • 4 x independent 3G/HD/SD video mix outputs • 1 x 4K UHD video mix output via 3G-SDI quad-link grouping |
| Stream Output | 2 x resolution-independent streaming video outputs, independently configurable, with simultaneous stream archive |

| | |
|------------------------|---|
| Multiviewer Output | <p>3 x multiviewer outputs supporting standard display resolutions</p> <ul style="list-style-type: none"> • 1 x DVI user interface with multiviewer • 1 x HDMI multiviewer • 1 x DisplayPort multiviewer |
| Mix/Effect Buses (M/E) | <p>4 x M/E buses supporting video re-entry</p> <ul style="list-style-type: none"> • 1 x Mix/Effect channel per bus with support for up to 4 sources • 4 x KEY layers per bus • 9 x memory slots per bus <p>1 x PREVIZ configuration and preview bus</p> |
| DSK Channels | <p>4 x DSK channels</p> |
| Media | <p>5 x media players</p> <ul style="list-style-type: none"> • 2 x DDR • 2 x GFX • 1 x Sound <p>15 x media buffers</p> <ul style="list-style-type: none"> • 10 x animation buffers • 5 x graphic buffers <p>30 x clip players (available for use as transitions or media depending on function)</p> |
| Keyers | <p>Integrated LiveMatte™ chroma and luma keying technology on all source channels and M/E buses</p> <ul style="list-style-type: none"> • 16 x input keyers • 4 x media player keyers • 4 x M/E keyers • 1 x PREVIZ keyer • 15 x buffer keyers |
| COMPs | <p>Integrated video composition engine on the switcher and each M/E bus to create, store, and apply layer configurations and DVE-style motion sequences</p> <ul style="list-style-type: none"> • 16 x configurable COMP presets per bus |
| Virtual Sets | <p>Integrated LiveSet™ technology with 30+ live virtual sets and box effects included</p> |
| DataLink | <p>Integrated DataLink™ technology enabling real-time, automated data input from internal and external sources, including webpages, spreadsheets, scoreboards, databases, RSS feeds, watch files, XML, CSV, ASCII and more</p> |
| Macros | <p>Record, store, edit and automate commands and user-configured operation sequences</p> <ul style="list-style-type: none"> • Attach to control panel buttons, keyboard shortcuts, hotspots, MIDI and X-keys® buttons or GPI triggers • Attach to internal events and state changes, including audio, media playback, tally and specific switcher actions • Supports control via web-based interface |

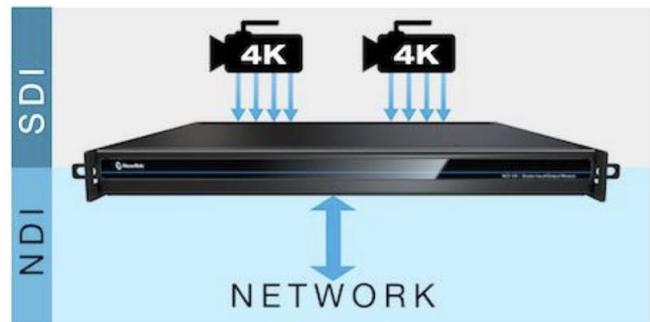
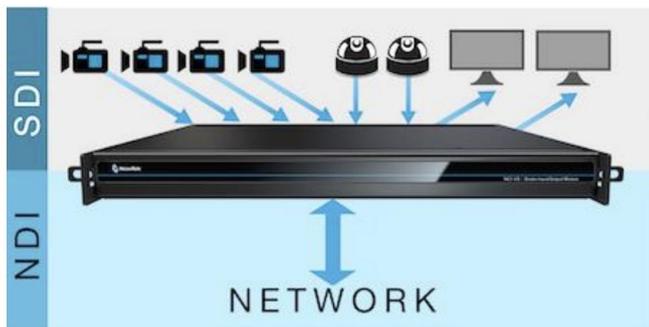


| | |
|------------------------------|--|
| Recording | <p>8 x configurable video recording channels via IsoCorder™ technology</p> <ul style="list-style-type: none"> • 8 x NDI® recordings (scalable to higher number with Premium Access) • 4 x QuickTime® archival video recorders (SHQ2 quicktime codec, 4:2:2 encoding, 24-bit audio, with timecode)³ • 2 x H.264 IsoCorder™ distribution video recorders (multiple profiles) • 1 x MP3 audio recorder <p>³ QuickTime Player not required for playback in common NLE applications</p> |
| Storage | <p>4TB internal media storage</p> <ul style="list-style-type: none"> • 2 x 4TB 7200 RPM, 128MB Cache, SATA 6.0Gb/s, 3.5" Internal Hard Drive • Capacity varies by format, resolution and file specification • Supports recording to external storage via USB 3.0 and eSATA • Supports shared storage integration and third-party partner solutions |
| Grab | Grab full-resolution, deinterlaced still images from external video sources and outputs |
| Export | Export video and image files to social media, FTP, local or external volumes, and network servers, with optional transcoding |
| Audio Mixer | Integrated multi-channel audio mixer with support for quad-channel audio, DSPs and 4x4x4 audio input routing |
| Local Audio Input | <p>4 x SDI embedded</p> <p>1 x Balanced XLR stereo pair (Line)</p> <p>3 x Balanced 1/4" stereo pairs (Line)</p> |
| |  <p>Support for USB audio device input via compatible WDM audio drivers</p> |
| Network Audio | <ul style="list-style-type: none"> • Native support for network audio input and output via NDI • Embedded audio supported for all NDI input and output video signals • Integrated support⁴ for Dante™ networking protocol from Audinate® • Support for AES67 protocol via compatible WDM audio drivers⁵ <p>⁴Requires Dante Virtual Soundcard license from Audinate (sold separately)</p> <p>⁵Requires third-party virtual sound card license (sold separately)</p> |
| Supported Media File Formats | <p>Import, store, and play back multimedia files, with optional transcoding, including:</p> <ul style="list-style-type: none"> • Video: AVI, DV, DVCPro, DVCProHD, FLV, F4V, H.263, H.264, MOV, MKV, MJPEG, MPEG, MP4, WMV, WebM, and more • Image: PSD, PNG, TGA, BMP, JPEG, JPEG-XR, JPEG2000, EXR, RAW, TIF, WebP, and more • Audio: AIFF, MP3, WAV, and more |
| Monitoring | Support for up to 3 multiviewer displays with configurable workspaces and viewports |
| Signal Monitoring | Integrated waveform and vectorscope, full field rate with digital calibration, color preview and support for ITU-R Rec. 709 |
| Processing | <p>Video: Floating Point YCbCr +A 4:4:4:4</p> <p>Audio: Floating Point, 96 kHz</p> |

| | |
|-----------------|---|
| Latency | Processing Latency: ~1.0-1.5 frames Practical Throughput Latency: 4 frames |
| A/V Standards | <ul style="list-style-type: none"> • 4K UHD video conforms to SMPTE 2036 (UHDTV1 using Square Division Quad Split) • 3G-SDI video conforms to SMPTE 424M (Level A) • HD-SDI video conforms to SMPTE 292M • SD video conforms to SMPTE 259M and ITU-R BT.656 • Analog audio levels conform to SMPTE RP-155 |
| Tally | Support for hardware tally via HD15 GPI connector, network tally via NDI, and Blackmagic Design® SDI tally standard |
| Genlock | Genlock input supporting SD (Bi-level) or HD (Tri-level) reference signals |
| GPI | Supports GPI signals via JLCooper Electronics eBox GPI interface |
| MIDI | Support for standard MIDI protocol enabling third-party device control |
| System Drive | 120GB SSD |
| NIC | <ul style="list-style-type: none"> • NIC 1 x 10 Gigabit Ethernet • 1 x 1 Gigabit Ethernet |
| System Physical | <p>TriCaster TC1 2RU chassis with 400W PSU and multi-tiered hardware and software fail-safe</p> <ul style="list-style-type: none"> • 19.0 x 3.5 x 19.57 in (48.3 x 8.9 x 49.7 cm) with rack ears attached <p>TriCaster TC1 (Redundant Power Option) 3RU chassis with 500W redundant PSU and multi-tiered hardware and software fail-safe</p> <ul style="list-style-type: none"> • 19.0 x 5.25 x 19.57 in (48.3 x 13.34 x 49.7 cm) with rack ears attached |



NC-1 I/O Modul (8 Channel SDI//NDI Interface)



- 8 Additional SDI I/O Connections for TriCaster TC1
- 8x 3G/HD/SD SDI Hardware Inputs or Outputs
- 2x 4K UHD 60p Inputs or Outputs (via quad-link)
- 8 Connections. Use them as you wish.
- Redundant Power Supplies
- Native NDI Integration



Inspired Design

- Multi-channel SDI and IP video translation for delivery to compatible destinations and devices with near-zero latency
- Eight 3G/HD/SD SDI video connections via DIN 1.0/2.3, configurable for input, output, or a combination of both
- Support for any combination of compatible video formats in resolutions up to 4K UHD at frame rates up to 60fps
- Scalable, modular architecture supporting systematic expansion and strategic deployment

V-Mix Videomixer (V-Mix Pro @ HP Z820 + Blackmagic Decklink)



Connections

SDI Video Inputs

4 x bidirectional 12-bit SD/HD independently configurable as either Input or Output.

SDI Video Outputs

4 x bidirectional 12-bit SD/HD independently configurable as either Input or Output.

SDI Audio Inputs

16 channels embedded in SD and HD.

SDI Audio Outputs

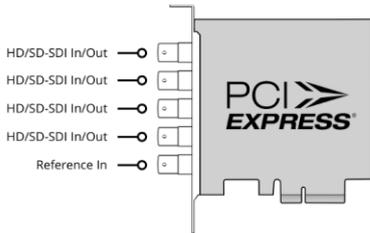
16 channels embedded in SD and HD.

Sync Input

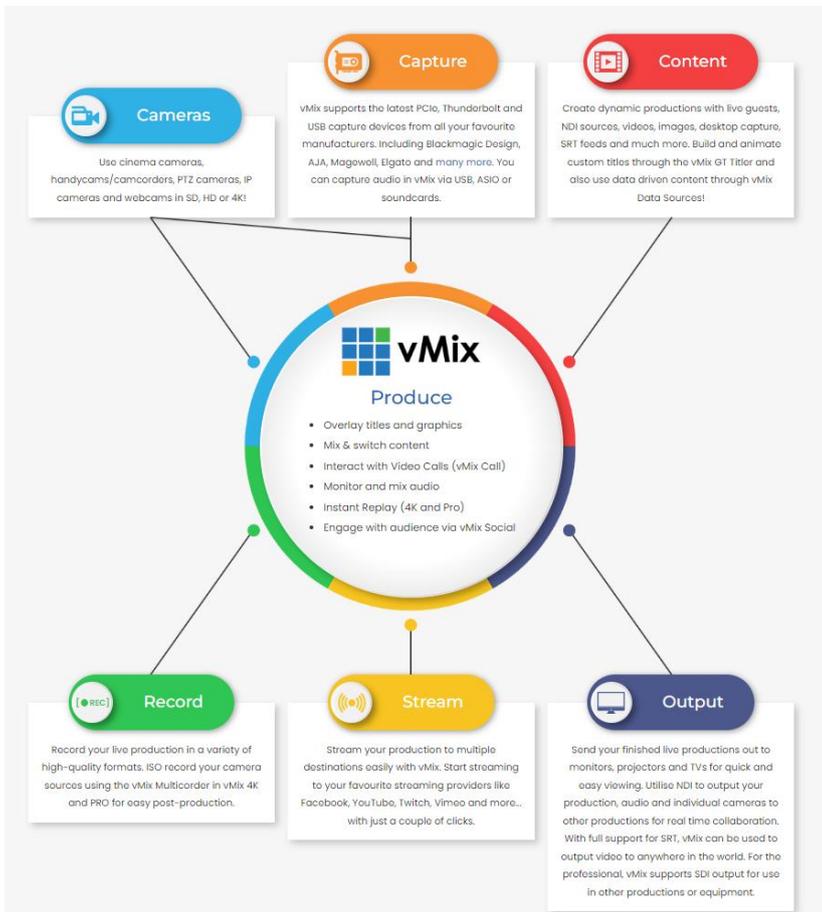
Tri-Sync or Black Burst.

Computer Interface

PCI Express 4 lane generation 2, compatible with 4, 8 and 16 lane PCI Express slots.



DeckLink Duo 2



Audio Interface (24-Ch Digital Mixer/USB Multi-with Wireless Control)

Soundcraft Ui 24R



HARMAN Sound Quality and Reliability



Features

- Renowned Soundcraft quality and performance
- Built-in dual-band Wi-Fi eliminates the need for a router to provides a reliable connection to up to 10 mobile devices in mission critical situations
- Control Ui24R from iOS, Android, Windows, Mac OS and Linux browsers without installing additional apps
- Record and mix with the warmth of 20 professional-quality Studer-designed preamps
- dbx compression and iconic Lexicon reverb and delay processing
- 2 channels of DigiTech guitar amp modeling
- Dual-path, redundant multi-track recording of all 24 inputs to USB drive and connected Mac/PC
- 24 simultaneous inputs (10 combo 1/4" TRS/XLR, 10 XLR, 2 line level, 2 digital)
- 4-band parametric EQ, high-pass filter, compressor, de-esser, and noise gate on input channels
- 31-band graphic EQ, noise gate, compressor, and dbx® AFS2 Automatic Feedback Suppression on all outputs
- Real-time frequency analyzer (RTA) on inputs and outputs
- Compatible with Mac/PC DAWs and other music software
- Compatible with Harman Connected PA application and system for easier setup and control
- 4U rackmount design

SDI Kreuzschiene + Smart and Master Control Panel (40x40, 12G SDI)



Control Panel

Videohub Smart Control Pro



Videohub Master Control Pro



Connections

SDI Video Inputs

40 x 10-bit SD-SDI, HD-SDI and 12G-SDI.

Please [click here](#) for a summary of recommended cables to use with Blackmagic 12G-SDI products.

SDI Video Outputs

40 x 10-bit SD-SDI, HD-SDI and 12G-SDI.

SDI Rates

DVB-ASI, 270Mb, 1.5G, 3G, 6G, 12G.

Video Input Re-Sync

None.

SDI Reclocking

On all SDI outputs.

Reference Inputs

Tri-Sync or Black Burst.

Reference Outputs

Reference terminating loop output.

SD Video Standards

525i59.94 NTSC, 625i50 PAL

HD Video Standards

720p50, 720p59.94, 720p60
1080p23.98, 1080p24, 1080p25, 1080p29.97,
1080p30, 1080p47.95, 1080p48, 1080p50,
1080p59.94, 1080p60
1080PsF23.98, 1080PsF24, 1080PsF25,
1080PsF29.97, 1080PsF30
1080i50, 1080i59.94, 1080i60

2K Video Standards

2Kp23.98 DCI, 2Kp24 DCI, 2Kp25 DCI,
2Kp29.97 DCI, 2Kp30 DCI, 2Kp47.95 DCI,
2Kp48 DCI, 2Kp50 DCI, 2Kp59.94 DCI, 2Kp60 DCI
2KPsF23.98 DCI, 2KPsF24 DCI, 2KPsF25 DCI,
2KPsF29.97 DCI, 2KPsF30 DCI

Ultra HD Video Standards

2160p23.98, 2160p24, 2160p25, 2160p29.97,
2160p30, 2160p47.95, 2160p48, 2160p50,
2160p59.94, 2160p60

4K Video Standards

4Kp23.98 DCI, 4Kp24 DCI, 4Kp25 DCI,
4Kp29.97 DCI, 4Kp30 DCI, 4Kp47.95 DCI,
4Kp48 DCI, 4Kp50 DCI, 4Kp59.94 DCI, 4Kp60 DCI

Control Panel Connection

Ethernet.

Serial Control Connection

DB-9 RS-422.

Multi Rate Support

Auto detection of SD, HD or 6G-SDI. Simultaneous routing of 4K, HD, SD video and DVB-ASI.

Updates

USB

Front Panel Router Control

40 buttons for local control of Videohub. 6 buttons and scroll wheel for control of LCD display or RJ45 Ethernet. RS-422.

Router Configuration

Via front panel LCD or RJ45 Ethernet.

RS-422 Router Control

1 x input for controlling router crosspoint switching.

SDI Compliance

SMPTE 259M, SMPTE 292M, SMPTE 296M,
SMPTE 372M, SMPTE 424M,
SMPTE 425M Level A and B
SMPTE 2081-1, SMPTE 2081-10, SMPTE 2082-10,
ITU-R BT.656 and ITU-R BT.601

SDI Video Sampling

4:2:2 and 4:4:4

SDI Audio Sampling

Television standard sample rate of 48kHz and 24-bit.

SDI Color Precision

10-bit 4:2:2 and 4:4:4

SDI Color Space

YUV or RGB

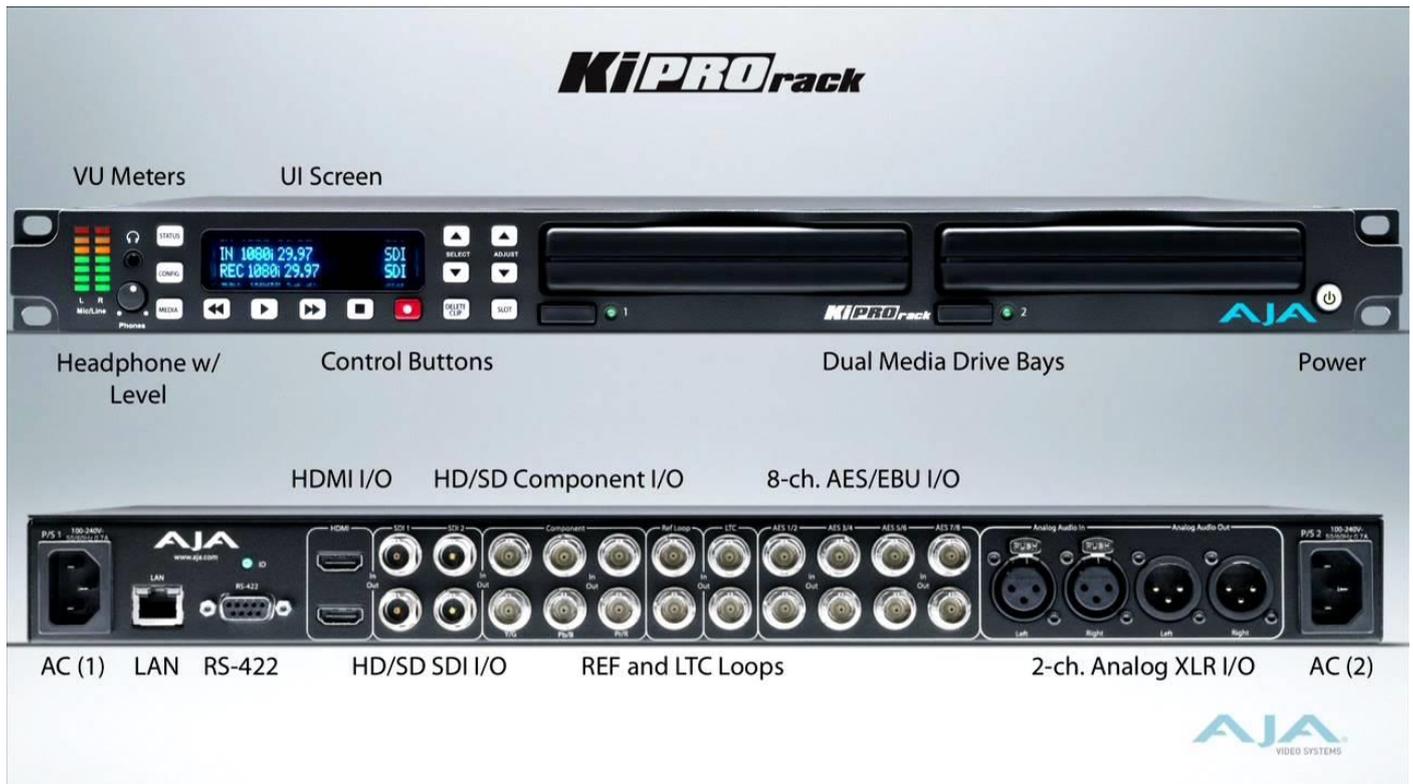
SDI Auto Switching

Automatically selects between SD-SDI, HD-SDI, 12G-SDI and DVB-ASI on each input so that each input can be running a different television standard.

SDI Metadata Support

Video payload identification ancillary data as per SMPTE 352M.

KiPro Rack (1 HE Recorder)



| | |
|-----------------------------|--|
| <p>Video Formats</p> | <ul style="list-style-type: none"> • 1080i 25, 29.97, 30 • 1080PsF 23.98, 24, 25*, 29.97* • 1080p 23.98, 24, 25, 29.97 • 720p 23.98*, 25*, 29.97*, 50, 59.94, 60 • 625i 25 • 525i 29.97 <p>*25 and 29.97 require a valid camera source and the use of the Record Type>PsF selection</p> |
| <p>Codec Support</p> | <ul style="list-style-type: none"> • Apple ProRes 422 • Apple ProRes 422 (HQ) • Apple ProRes 422 (LT) • Apple ProRes 422 (Proxy) • Avid DNxHD HQX (220x) • Avid DNxHD SQ (145) • Avid DNxHD LD (36), only provides support for the 1080p format |
| <p>Removable Storage</p> | <ul style="list-style-type: none"> • AJA KiStor modules - 2 slots with rollover recording |
| <p>Video Input Digital</p> | <ul style="list-style-type: none"> • SD/HD SDI, SMPTE-259/292, 10-bit • Single Link 4:2:2 (2 x BNC, input selection in software) • HDMI v1.3 |
| <p>Video Output Digital</p> | <ul style="list-style-type: none"> • SD/HD SDI, SMPTE-259/292 • Single Link 4:2:2 10-bit (1 x BNC) • HDMI v1.3 <p>Note: HDMI requires 1080i, 720p or 1080p to be active; HDMI does not provide support for PsF</p> |

| | |
|----------------------|---|
| Video Input Analog | <ul style="list-style-type: none"> • SD/HD Component (3 x BNC) • SMPTE/EBU N10, Betacam 525 line, Betacam 525J • 12-bit A/D, 2 x oversampling • +/- .25dB to 5.5 mHz Y frequency response • +/- .25dB to 2.5 mHz C frequency response • .5% 2T pulse response • <2 ns Y/C delay inequity, or Composite (1 x BNC – CVBS on Y) |
| Video Output Analog | <ul style="list-style-type: none"> • Component (3 x BNC) • NTSC, NTSCJ, PAL • HD: YPbPr, RGB • SD: YPbPr, RGB (component mode) • SMPTE/EBU N10, Betacam 525 line, Betacam 525J, RGB • 12-bit D/A, 8 x oversampling • +/- .2dB to 5.5 mHz Y frequency response • +/- .2dB to 2.5 mHz C frequency response • .5% 2T pulse response • <1 ns Y/C delay inequity, or Composite (1 x BNC – CVBS on Y) • +/- .2dB to 5.0 mHz Y frequency response • +/- .2dB to 1 mHz C frequency response • <1% Diff Phase • <1% Diff Gain |
| Audio Input Digital | <ul style="list-style-type: none"> • 8-channel, 24-bit SMPTE-272/299 SDI embedded audio, 48 kHz sample rate, synchronous • 8-channel, 24-bit HDMI embedded audio, 48 kHz sample rate, synchronous • 8-channel, 24-bit AES/EBU audio, 48 kHz sample rate, synchronous or nonsynchronous, internal sample rate conversion (4 x BNC) |
| Audio Input Analog | <ul style="list-style-type: none"> • 2-channel, 24-bit A/D analog audio, 48 kHz sample rate, balanced (2 x XLR) • +24 dBu full scale digital • +/- 0.2 dB 20Hz to 20 kHz frequency response (Note: Line or Mic selection via CONFIG menu parameters) |
| Audio Output Digital | <ul style="list-style-type: none"> • 8-channel, 24-bit SMPTE-272/299 SDI embedded audio, 48 kHz sample rate, synchronous • 8-channel, 24-bit HDMI embedded audio, 48 kHz sample rate, synchronous • 8-channel, 24-bit AES/EBU audio, synchronous or nonsynchronous, internal sample rate conversion (4 x BNC) |
| Audio Output Analog | <ul style="list-style-type: none"> • 2-channel, 24-bit D/A analog audio, 48 kHz sample rate, balanced (2 x XLR) • +24 dBu full scale digital (0dbFS) • +/- 0.2 dB 20 Hz to 20 kHz frequency response • Stereo unbalanced headphone (1 x 3.5mm mini jack) |
| Up-Conversion | <ul style="list-style-type: none"> • Hardware 10-bit • Anamorphic: fullscreen • Pillarbox 4:3: results in a 4:3 image in center of screen with black sidebars • Zoom 14:9: results in a 4:3 image zoomed slightly to fill a 14:9 image with black side bars • Zoom Letterbox: results in image zoomed to fill fullscreen • Zoom Wide: results in a combination of zoom and horizontal stretch to fill a 16:9 screen; this setting can introduce a small aspect ratio change |
| Down-Conversion | <ul style="list-style-type: none"> • Hardware 10-bit • Anamorphic: fullscreen • Letterbox: image is reduced with black top and bottom added to image area with the aspect ratio preserved • Crop: image is cropped to fit new screen size |
| Cross-Conversion | <ul style="list-style-type: none"> • Hardware 10-bit • 1080i to 720p • 720p to 1080i |

KiPro (Portable Recorder + Bag)



Video

Video Inputs

- Digital::*
- SD and HD-SDI (1xBNC), SMPTE-259/292/296
 - HDMI

- Analog::*
- SD/HD Component (3xBNCs):
 - SMPTE/EBU N10, Betacam 525 line,
 - Betacam 525J, YPbPr
 - 12-bit A/D, 2x oversampling

Video Outputs (all simultaneously active)

- Digital::*
- SD and HD-SDI, SMPTE-259/292/296 (1xBNC)
 - HDMI

- Analog::*
- Composite (1xBNC):
 - NTSC, NTSCJ, PAL
 - 12-bit D/A, 8x oversampling
 - SD/HD Component (3xBNCs):
 - SD: SMPTE/EBU N10, Betacam 525 line,
 - Betacam 525J, RGB
 - 12-bit D/A, 8x oversampling
 - HD: YPbPr, RGB
 - 12-bit D/A, 2x oversampling

Audio

Audio Inputs

- Digital:*
- 24-bit SDI embedded audio, 8 channel, 48kHz
 - HDMI embedded, 2 channel

- Analog:*
- 24-bit A/D, 2 channel balanced (2 XLR), 48kHz
 - Input level: Line, Mic, Mic + phantom 48Vdc
 - 2 channel unbalanced (2 RCA)

Audio Outputs

- Digital::*
- 24-bit SDI embedded audio, 8 channel, 48kHz
 - HDMI embedded, 8 channel

- Analog::*
- 24-bit D/A, 2 channel balanced XLR, 48kHz
 - 2 channel unbalanced (2 RCA)

Hardware Conversion

Up-conversion - 10-bit

Anamorphic: Full-screen

Pillar box 4:3: Results in a 4:3 image in center of screen with black sidebars

Zoom 14:9: Results in a 4:3 image zoomed slightly to fill a 14:9 image with black side bars

Zoom Letterbox: Image zoomed to fill screen

Zoom Wide: Combination of zoom and horizontal stretch to fill 16:9 screen; this setting can introduce a small aspect ratio change

Down-conversion - 10-bit

Anamorphic: Full-screen

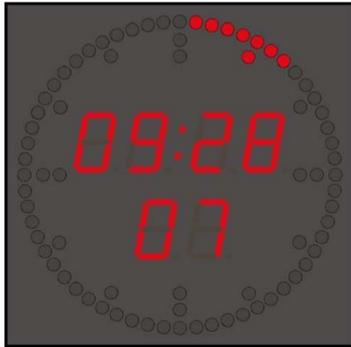
Letterbox: Image is reduced with black top and bottom added to image area with the aspect ratio preserved

Crop: Image is cropped to fit new screen size

Cross-conversion - 10-bit

1080i to 720P
720P to 1080i

Clock & Timing (Display + Clock + 1 HE Control + Unit Ethernet to LTC Generator)



Alpermann + Velte TCU MTD System, Controller, Clock Display UD300 und Display UD56E-PoE Ethernet to LTC Converter ETC



POE+ Switch (Netgear PoE+ Switch AV Line M4250-10G2F-PoE+ 12 Port + Single Mode SFP)



M4250-10G2F-PoE+ AV Line Managed Switch



Ordering information

- Americas: GSM4212P-100NAS
- Europe: GSM4212P-100EUS
- Asia Pacific: GSM4212P-100AJS
- China: GSM4212P-100PRS
- Warranty: Lifetime ProSAFE Hardware Warranty
- AVB License: AVB4212P-10000S (sold separate)

Ordering information (AVB-ready version)

- Americas: GSM4212P-111NAS
- Europe: GSM4212P-111EUS
- Asia Pacific: GSM4212P-111AJS
- China: GSM4212P-111PRS
- AVB License already installed in the switch
- AVB Profile already configured on all ports

- 8-port 10/100/1000BASE-T (RJ45) PoE+ with 125W PoE budget
- 2-port 10/100/1000BASE-T (RJ45)
- 2-port 1000BASE-X (SFP)
- 24 Gbps non-blocking fabric across 12 ports
- Out-of-band 1G Ethernet management port
- USB-C and RJ45 RS232 console ports and USB-A storage port
- Front black display panel and all ports in the back
- Possible reversed mounting with ports in the front
- Rack-mounting standard brackets
- Longer brackets for recessed mounting (2 inches / 5 cm)
- Threaded hole in front (1xM10) for clamps
- Threaded holes on the bottom (4xM5) for 50x100mm VESA plates
- Selectable fan modes for fanless, quiet, or cool operation
- Dimensions (WxDxH): 440 x 200 x 43.2 mm
- Weight: 2.85Kg (6.28lb)

POE+ Switch (Netgear 8-Port Gigabit Ethernet POE+ Smart Managed Pro + Single Mode SFP)



- Datenübertragungsrate: 1.000 Mbit/s
- Reichweite: 10 km
- Anschlüsse: LC
- LWL-Standard: Single-Mode
- Wellenlänge: 1.310 nm

Messgerät/Waveform (Imagine TVM 9150 PKG + Audio Option TVM-A3-OPT 2-F)



TVM9150PKG - Details

- **Features:**

- Dual, auto-detecting SDI input for 3 Gb/s, HD or SD
- Dual, auto-detecting NTSC/PAL analog composite option
- Single-input ASI monitoring option
- 3D analysis upgrade with multiple 3D formats and displays
- Standards: SMPTE 424M, SMPTE 292M, SMPTE 259M-C, NTSC/PAL
- Multiple reference inputs
- Simultaneous display of up to four different inputs
- Customizable display functions, including screen location and multiple displays
- Patented video relative timing display
- Patented gamut display
- Ancillary data processing (including AFD, WSS, SourceID, VITC, LTC, and ANC TC)
- Pixel locator/data word analyzer
- Multiple-picture thumbnail
- A/B parade and overlay
- 608, 708 closed-caption detect, alarm, display
- Teletext and OP-47 detect, alarm, display
- Comprehensive alarm set with peak level report
- 16 direct-access user presets
- Integral high-brightness XGA TFT color LCD display
- Illuminated controls and indicators
- DVI-I output
- USB port for control and data transfer
- 10/100Base-T Ethernet, SNMP agent
- Web server
- SpyderWeb II remote control and logging software
- GPI control

Abhören (Sonifex Reference Monitor, HD-SDI Emb Option & 4 Stereoeingänge)



Technische Daten RM-2S4

Eingänge

| | |
|--------------------------|--|
| Audio-Eingänge | 4 analoge oder digitale (AES/EBU) Stereoeingänge mit automatischer Formaterkennung |
| Maximaler Eingangspegel: | +18dBu |
| Gleichtaktunterdrückung: | >60dB typisch |
| Eingangsimpedanz: | 20kΩ (analog) 110Ω (digital mit schaltbarer Terminierung) |
| AES/EBU Abtastraten: | 32 bis 192kHz, intern auf 48kHz gewandelt |
| Eingangspegel: | 0, +6, +12 oder +18dB Digital-Pegel (schaltbar) |
| Auswahl: | 2 x Drehgeber mit LED-Statusanzeigen |

Line-Pegelausgänge

| | |
|--------------------------|---|
| Audio-Ausgänge: | 1 x analog oder digital (AES/EBU) Stereoausgang (umschaltbar) |
| Ausgangspegel: | Unity-Gain oder dem Lautstärkeregel folgend (umschaltbar) |
| Maximaler Ausgangspegel: | +18dBu |
| Ausgangsimpedanz: | <50Ω (analog) 110Ω (digital) |
| AES/EBU Abtastrate: | 48kHz |
| Verzerrung: | <0.02% (1kHz, +8dBu Ausgang) |
| Rauschen: | -84dB RMS, Unity-Gain Bezug +8dBu Ausgang |
| Frequenzgang: | 20Hz-20kHz +0/-0.5dB |
| Übersprechen | Analoge Ein- & Ausgänge, Bezug 0dBu |
| 1kHz Eingang: | <-90dB |
| 10kHz Eingang: | <-85dB |

Verstärker/Lautsprecher

| | |
|-----------------------------------|--|
| Konfiguration: | 3-Weg-System mit Stereo Hoch-/Mitteltöner und Mono-Tieftöner |
| Ausgangsleistung: | 2 x 5W (Hoch-/Mitteltöner) + 20W (Tieftöner) mit Schutzlimiter |
| Übergangsfrequenz: | 500Hz (3. Ordnung Butterworth) |
| Verzerrungen (Hoch-/Mitteltöner): | < 0.05% (1kHz, 3W Ausgangsleistung) |
| Verzerrungen (Tieftöner): | < 0.05% (100Hz, 6W Ausgangsleistung) |
| Rauschen: | Mehr als 80dB unterhalb vollem Ausgangspegel |
| Lautstärke: | Stummschaltung bis Maximum via Drehgeber |
| Balanceregulierung: | ±6dB via Drehgeber |
| Maximaler Ausgangspegel: | 102dB SPL @ 2ft |

Pegelinstrumente

| | |
|-----------------|---|
| Anzahl: | 2 x 53-Segmente, dreifarbiges LED-Anzeige |
| Charakteristik: | Umschaltbar zwischen: |
| | 1. Dual BBC PPM + standard VU |
| | 2. BBC PPM |
| | 3. EBU PPM |
| | 4. Nordic PPM |
| | 5. AES/EBU digital PPM |
| | 6. DIN PPM |
| | 7. Standard VU |
| | 8. Extended VU |
| Ballistik: | Je nach gewählter Charakteristik |
| Anstiegszeit: | Je nach gewählter Charakteristik |

Phasenmeter

| | |
|------|---|
| Typ: | 5-Segmente, Anzeige für 0, 45, 90, 135 und 180 Grad Phasenbezug |
|------|---|

Technische Daten RM-HD1

SDI Spezifikationen

| | |
|-----------------------------|--|
| Eingangsimpedanz: | 75Ω |
| Ausgangsimpedanz: | 75Ω |
| Ausgangspegel: | 0.8 V Spitze-Spitze |
| Verlust: | > 15 dB (1.5 GHz) |
| Jitter: | < 0.2UI |
| Unterstützte SDI-Standards: | 270Mbps, SMPTE-259M-C (SD) 1.485 oder 1.4835Gbps, SMPTE-292M (HD) 2.97 oder 2.967Gbps, SMPTE-424M (3G) |

| | |
|----------------------------|--|
| Unterstützte Videoformate: | 525/59.94 (SMPTE-125M) 625/50 (ITU-R BT.656) 720p/23.98, 24, 25, 29.97, 30, 50, 59.94, 60 (SMPTE-296M) 1035i/59.94, 60 (SMPTE-260M) 1080i/50, 59.94, 60 (SMPTE-274M) 1080p/23.98, 24, 25, 50, 59.94, 60 (SMPTE-274M) 1080pSF/23.98, 24, 25, 29.97, 30 (RP-211) 1080i/50 (SMPTE-295M) 1080p/50 (SMPTE-295M) |
|----------------------------|--|

| | |
|---------------------------|--|
| Embedded Audio-Standards: | SMPTE 272M oder SMPTE 299M 24 bit 48 kHz Synchron/Asynchron* *Audio muss synchron sein bei SD. Asynchrone Audiosignale in HD-Datenströmen können nur eine Audio-Gruppe verarbeiten. |
|---------------------------|--|

Anschlüsse

| | |
|-----------------|--|
| HD-SDI-Eingang: | 1 x BNC 75Ω SDI-Eingang |
| HD-SDI-Ausgang: | 1 x BNC 75Ω SDI-Ausgang (durchgeschleift, aber neu getaktet) |

Prompter (Autoscript EPIC-IP19XL 19" PROMPTER + 24" TALENTSCREEN)



Autoscript **EPIC-IP19XL** - EPIC-IP on-camera package
 Large 19" prompt and 24" talent monitor solution; Integrated full HD talent monitor; Prompt Monitor connects via network to WinPlus-IP prompting software; Folding hood; Prompt monitor size: 19"; Talent monitor size: 24"; Weight: 8.6 kg / 19.0 lb; Complete on-camera system weight: 16.4 kg / 36.2 lb

Autoscript **MT-EVOLVE** - Legacy hardware backplate adaptor
 Allows mounting of all EVO and EPIC-IP monitors to existing Autoscript on-camera mounting and hoods.



- **Prompt monitor size: 19"**
- **Integrated talent monitor size: 24"**
- Integrated monitors only weight: 6.9 kg / 15.2 lb
- On-camera package weight: 14.7 kg / 32.4 lb
- **Prompt monitor aspect ratio: 4.3**
- Prompt monitor brightness: 1500 nits
- **Prompt monitor resolution: 1280 x 1024 SXGA**
- Prompt monitor contrast: 1000:1
- Prompt monitor dimensions: 467 x 399 x 41mm / 18.4 x 15.7 x 1.6"
- **Talent monitor aspect ratio: 16:9**
- Talent monitor brightness: 350 nits
- **Talent monitor resolution: 1920 x 1080**
- Script and feedback inputs: LAN, 2x HD-SDI, 2x CVBS
- Tally input: Opto sensor
- Timecode Inputs: LTC, NTP (VITC, D-VITC optional)
- Power consumption: 51W
- Power input: 4-pin XLR, 12-16.8VDC
- Outputs: Repeat Tally Output inc. 12V DC out
- Viewing angle: H/V 170°/160°
- Mounting: On-camera system with Intelligent Prompting backplate, carbon fibre hood and glass, rail and mounting bracket
- Certifications: CE, FCC, BIS



Funkmikrofon (SET Sennheiser EM 3732-II, SK 5212-II, SKM 5200-II)



Komplettes Sennheiser SET - **Frequenz 614 - 798 MHz**

2x Sennheiser **EM 3732-II HF Empfänger** (Dual)

3x Sennheiser **SK5212-II Taschensender** (ME 102-Kugelcharakteristik)

1x Sennheiser **SKM 5200-II Funkmikrofon** (ME5009 – Kondensator / breite Niere)

TOTAL 4x Funkstrecken



Hohe Übertragungssicherheit, hervorragende Audioqualität und einfache Bedienung, das sind die Kennzeichen der Gerätefamilie EM 3731/3732-II. Die gegenüber den Vorgängermodellen mehr als verdoppelte Schaltbandbreite von bis zu 184 MHz sowie eine Vielzahl von Anschlussmöglichkeiten garantieren maximale Flexibilität im täglichen Einsatz. So lassen sich die Empfänger dank des integrierten Ethernet-Anschlusses in jedes Netzwerk einbinden. Der digitale Audioausgang nach AES3/EBU-Standard erlaubt eine direkte Verbindung mit digitalen Mischpulten. Mithilfe der Sennheiser "Wireless Systems Manager"-Software (WSM) können alle Betriebszustände der Empfänger fernüberwacht und -gesteuert werden. Mit WSM ist es jetzt auch möglich, die Kanalzuordnung jederzeit neu festzulegen und als Szene abzuspeichern. Ein neues sinnvolles WSM-Feature für den Multikanalbetrieb: Auf Knopfdruck kann der dem jeweiligen Empfänger zugeordnete Kanal sofort identifiziert werden. Ein kontrastreiches Display und intuitive Bedienung machen die Ausstattung dieser Spitzenempfänger komplett

AUSSCHREIBUNGSTEXT

Leistungsmerkmale
 True-Diversity-Doppelempfänger;
 Integrierter Antennensplitter 2 x 1 : 2;
 Scan-Funktion;
 6 voreingestellte Kanalbänke mit bis zu 59 voreingestellten Kanälen;
 1 Kanalbank mit bis zu 60 frei in 5-kHz-Schritten durchstimmbaren Kanälen;
 OLED-Display;
 DSP-basierter HiDyn plus / HDX-Kompander;
 Digitaler Audioausgang AES3;
 Externe Wordclock-Synchronisation des digitalen Ausganges;
 Audioausgangspegel einstellbar in 1 dB-Schritten;
 Trafosymmetrische Audioausgänge;
 Fernsteuerung und Fernüberwachung über Wireless System Manager-Software;
 Infrarotschnittstelle zur schnellen Frequenzprogrammierung von dazugehörigen Sendern;
 Lieferumfang inklusive 2 Teleskopantennen, Netzkabel und 19" Montagesatz;

TECHNISCHE DATEN

| | | |
|------------------------------|---|--------|
| HF-Frequenzbereich | 776 - 960 MHz | 504075 |
| | 504078 | |
| | 504081 | |
| | 470 - 638 MHz | 504076 |
| | 504079 | |
| | 504073 | |
| | 614 - 798 MHz | 504077 |
| | 504080 | |
| | 504074 | |
| | L: 470 - 638 MHz, | |
| | N: 614 - 798 MHz, | |
| | P: 776 - 960 MHz | |
| Abmessungen | 436 x 44 x 250 mm | |
| Kompandersystem | Sennheiser HiDynplus auf DSP emuliert, Latenz <= 1,9 ms | |
| Audio-Anschluß | analogue: XLR-3, digital AES3: XLR-3 | |
| Sample Rates: | 44.1, 48, 88.2, 96 kHz, 24 Bit | |
| Klirrfaktor bei 1KHz | ≤ 0,3 % | |
| Gewicht | ca. 4080 g | |
| Leistungsaufnahme | max. 50VA, 20 W (AC) | |
| Temperaturbereich (Lagerung) | -25 °C ... +70 °C | |
| Temperaturbereich (Betrieb) | -10 °C ... +55 °C | |
| Geräuschpegelabstand | ≥ 118 dB(A) (analogue AF OUT), 140 dB (AES3 audio out) | |
| Schaltbandbreite | bis zu 184 MHz | |
| Spitzenhub | +56 kHz | |
| Nennhub | +40 kHz | |

Technische Daten

Empfängertyp: True-Diversity-Doppelempfänger;
 Empfangsfrequenzen: durchstimmbar in 5-kHz Schritten;
 Anzahl der Speicherplätze: 6 Kanalbänke fest voreingestellt 1 Kanalbank in 5-kHz-Schritten frei durchstimmbar;
 Frequenzbereiche: 470-638 MHz (L); 614-798 MHz (N); 776-960 MHz (P);
 Schaltbandbreite: bis zu 184 MHz;
 Modulationsart: Breitband FM;
 Nennhub / Spitzenhub:
 ± 40 kHz / ± 56 kHz;
 HF-Rauschsperrung: 15 Stufen (0-30 µV)
 Frequenzstabilität: ± 10 ppm (-10-55°C);
 Rauschunterdrückungssystem: HiDyn plus und HDX auf DSP-Basis;
 Latenzzeit: ≤ 1,3 ms
 NF-Übertragungsbereich:
 40 - 20.000 Hz (-3 dB);
 Signal-/Rauschabstand
 (1 mV, Spitzenhub: 115 dB (A) AF-out;
 Klirrfaktor (1 kHz): 0,3 % (typ. 0,15 %);
 HF-Eingang: 2 BNC- Buchsen, 50 Ohm;
 NF-Ausgang, trafosymmetrisch XLR:
 AES-EBU: XLR-3; 44,1 kHz; 48 kHz;
 88,2 kHz und 96 kHz; 24 Bit; Fernsteuerung mittels Wordclock möglich;
 Ausgangsimpedanz- Wordclock: 75 Ohm;
 Kopfhörerausgang: max. 12 dBu, regelbar;
 Computerschnittstelle: Ethernet RJ 45;
 Display: OLED-Display
 Stromversorgung: 115 / 230 V AC,
 11,3 – 18 V DC / 0,8 A;
 Gehäuse: 19", 1 HE;
 Abmessung: 436 x 43 x 230 mm;
 In Übereinstimmung mit: ETS 300 422 und 300 445;
 Fabrikat: Sennheiser / EM 3732-II-L

Fortsetzung TECHNISCHE DATEN

| | |
|----------------------------------|--|
| Stromversorgung | 100 - 240 V AC, 50/60 Hz |
| Booster: | 12 V DC, 2 x 200 mA, kurzschlussfest |
| Rauschsperrung (Squelch-Einsatz) | 13 Schritte (0 ... 30 µV) |
| Intermodulationsabstand | >= 80 dB |
| Antennenanschluss | 2 BNC-Buchsen (50 Ω) |
| Kaskadierbar | 2 BNC Buchsen (50 Ω) |
| Verstärkung | 0 dB ±0,5 dB (bezogen auf Antenneneingänge) |
| Ausgangsspannung | +18 dBu bis -10 dBu einstellbar in 1-dB-Schritten (trafosymmetrisch) |
| Nachbarkanalunterdrückung | typ. 75 dB / +-400 kHz, typ. 80 dB / +-800 kHz |
| Empfangsfrequenzen | 6 Kanalbänke mit jeweils bis zu 59 voreingestellten Kanälen 1 Kanalbank mit bis zu 60 frei in 5-kHz-Schritten durchstimmbaren Kanälen |

IN EAR (SET Sennheiser SR 2050 IEM und SR 2000 IEM, 3x EK 2000 IEM-BW)



Frequenz: 516-558 MHz



Robustes 19" Ganzmetallgehäuse mit integriertem Schaltnetzteil
 Bis zu 3000 Frequenzen in bis zu 75 MHz Schaltbandbreite
 20 Festfrequenzbänke mit bis zu 32 kompatiblen Presets
 6 Bänke mit je bis zu 32 frei durchstimmbaren Kanälen
 Frequenzeinstellung in 25-kHz-Schritten
 Umschaltbare Sendeleistung für flexiblen Einsatz
 Erweiterter Audio-Frequenzgang im Bassbereich
 Integrierter 5-Band Graphik-Equalizer
 Konfiguration von Empfängern im Menü des Senders möglich
 Synchronisation mit Empfänger über Infrarot Schnittstelle möglich
 Universell einsetzbar durch umfangreiches Zubehörangebot
 Überwachung und Steuerung durch Sennheiser WSM PC-Software
 Bedienungsfreundliche Menüsteuerung über zweifarbig hinterleuchtetes Grafikdisplay (Rot als Warnhinweis)
 Pilottonübertragung für störungsfreien Betrieb
 Regelbare Kopfhörer-Anschlüsse

Technische Daten

SR 2000 IEM, SR 2050 IEM

Hochfrequenzeigenschaften

| | | |
|-----------------------------|---|--------------------|
| Frequenzbereiche | Aw: 516 – 558 MHz | Dw: 790 – 865 MHz |
| | Aw+: 470 – 558 MHz | Gw: 558 – 626 MHz |
| | Bw: 626 – 698 MHz | Gw1: 558 – 608 MHz |
| | Cw: 718 – 790 MHz | GBw: 606 – 678 MHz |
| Empfangsfrequenzen | bis zu 3000 Empfangsfrequenzen, abstimbar in 25-kHz-Schritten | |
| | 20 Kanalbänke mit jeweils bis zu 32 voreingestellten Kanälen | |
| | 6 Kanalbänke mit 32 frei durchstimmbaren Kanälen, abstimbar in 25-kHz-Schritten | |
| Schaltbandbreite | bis zu 75 MHz | |
| Frequenzstabilität | ±10 ppm (–10 °C bis +55 °C) | |
| Antennenausgang | BNC-Buchse, 50 Ω | |
| HF-Ausgangsleistung an 50 Ω | typ. 10/30/50 mW (Low/Standard/High), umschaltbar | |

Niederfrequenzeigenschaften

| | |
|--|---|
| Modulationsart | FM-Breitband-Stereo (MPX-Pilottonverfahren) |
| Kompandersystem | Sennheiser HDX |
| Nennhub/Spitzenhub | ±24 kHz / ±48 kHz |
| MPX-Pilotton (Frequenz/Hub) | 19 kHz / ±5 kHz |
| NF-Übertragungsbereich | 25 – 15000 Hz |
| NF-Eingang BAL AF IN L (I)/BAL AF IN R (II) | 2 x XLR-3/6,3-mm-Klinke-Kombibuchse, elektronisch symmetriert |
| Max. Eingangspegel | +22 dBu |
| Klirrfaktor (bei 1 kHz und Nennhub) | < 0,9 % |
| Geräuschspannungsabstand bei Nennlast und Spitzenhub | > 90 dB |
| NF-Ausgang LOOP OUT BAL L (I)/LOOP OUT BAL R (II) | ∅ 6,35-mm-Stereo-Klinkenbuchse, symmetrisch |

Gesamtgerät

| | SR 2000 | SR 2050 |
|---------------------------|-----------------------|------------|
| Temperaturbereich | –10 °C bis +55 °C | |
| Spannungsversorgung | 100 – 240 V ~ | |
| Stromaufnahme | 0,1 A | 0,2 A |
| Abmessungen | ca. 217 x 483 x 43 mm | |
| Gewicht (inkl. Batterien) | ca. 2500 g | ca. 2700 g |

LYNX Frame und Wandler (LYNX 5000 Frame + Yellobrick)

www.spyfactory.ch

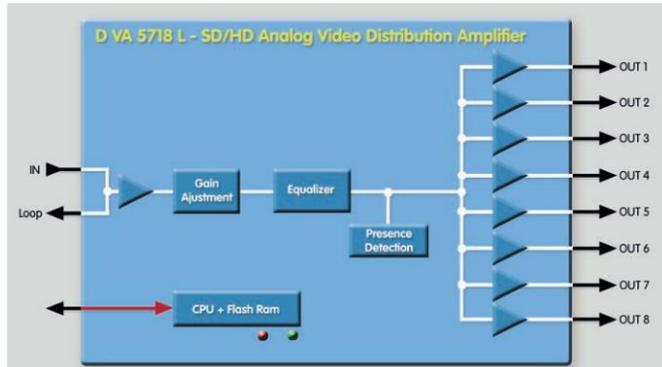
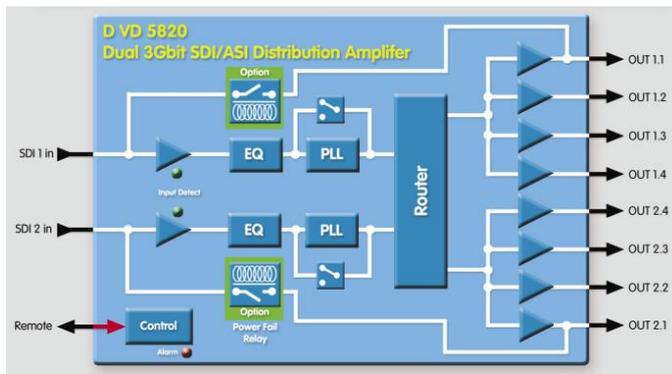
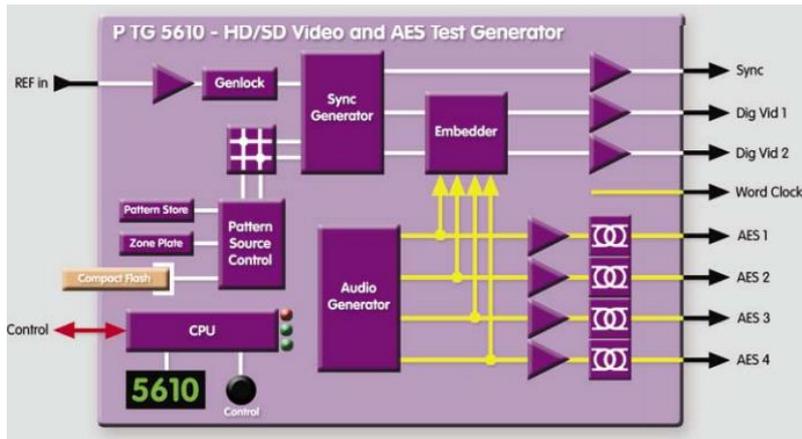
LYNX - VIDEO SERIES 5000_1

contact@spyfactory.ch **LYNX 50xx - 2RU Rack Frame + Dual Power Supply + Network/Controller** 



| Pos. | VMOD-FRAME 2.1 | | | | | | | | | | SR2 | | | |
|-------------|----------------|-------|-----------------|---|--|--|--|--|--|--|--|--|--|--|
| Type | | | | | | | | | | | | | | |
| Ref. | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | | |
| Description | PSU 1 | PSU 2 | Controller Card | SPG PTG 5610 D SYNC Generator HD/SD Video and Audio Test | DVA 5718 L Distribution, 1-8 Analog Video / Sync Distribution Amplifier | DVA 5718 L Distribution, 1-8 Analog Video / Sync Distribution Amplifier | DVA 5718 L Distribution, 1-8 Analog Video / Sync Distribution Amplifier | DVD 5820 Distribution Amp. Dual Channel SDI | |

Lynx SPG PTG 5610D, DVA 5718, DVD 5820

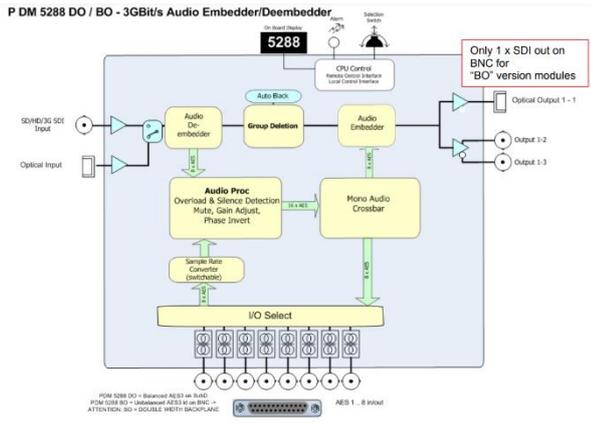
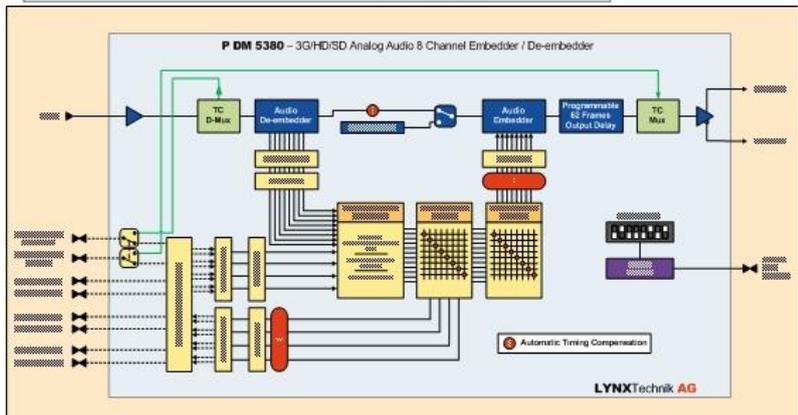
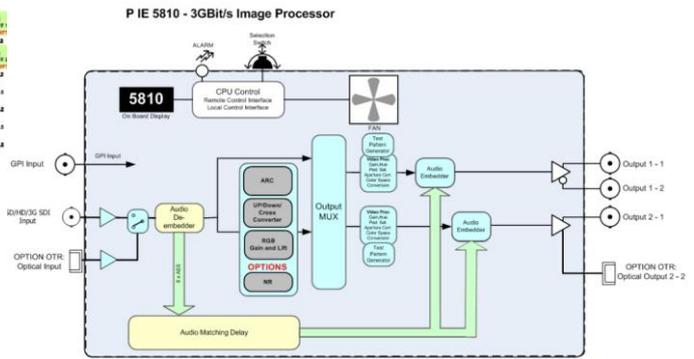
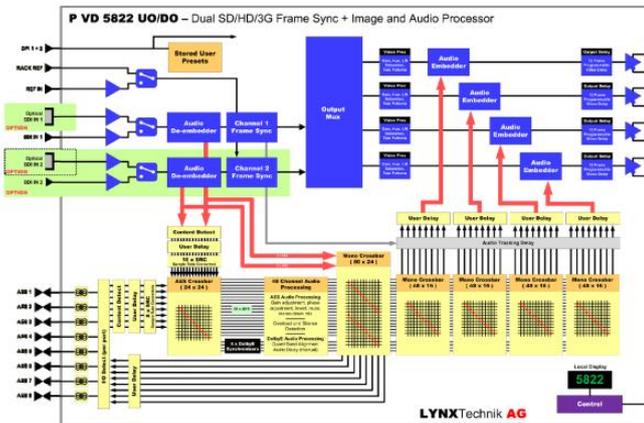


contact@spyfactory.ch **LYNX 50xx - 2RU Rack Frame + Dual Power Supply + Network/Controller** **SPYFACTORY**



| Front Frame | VMOD-FRAME 2.2 | | | | | | | | | | Location: | SR 2 |
|-------------|----------------|-------|-----------------|---|---|---|--|--|--|---------|-----------|------|
| Pos. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | | |
| Type | PSU 1 | PSU 2 | Controller Card | FSYNC PVD5822 | FSYNC PVD5822 | PROC PIE 5810 | EMB/DEMB PDM 5380 | EMB/DEMB PDM 5380 | EMB/DEMB PDM 5288 D | RESERVE | | |
| Ref. | | | | | | | | | | | | |
| Description | | | | Dual Channel SDI Multiformat Frame Synchronizer with Full Embedded and External AES Audio Support | Dual Channel SDI Multiformat Frame Synchronizer with Full Embedded and External AES Audio Support | Multi Format Image Enhancer with Optional UP/DOWN/CROSS Conversion And Optional Fiber I/O | SDI 8 Channel Analog Audio Embedder / Deembedder | SDI 8 Channel Analog Audio Embedder / Deembedder | AES De-/Embedder / Multi-Format AES Audio Embedder / Deembedder With optical I/O | RESERVE | | |

Lynx FSYNC PVD5822, PROC PIE 5810, PDM 5380, PDM 5288

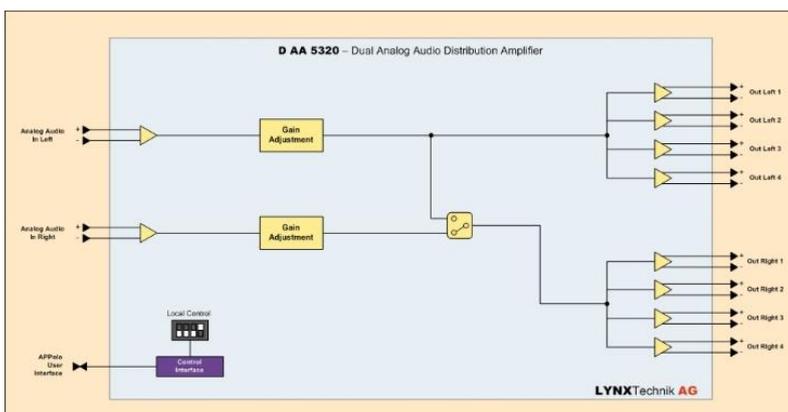
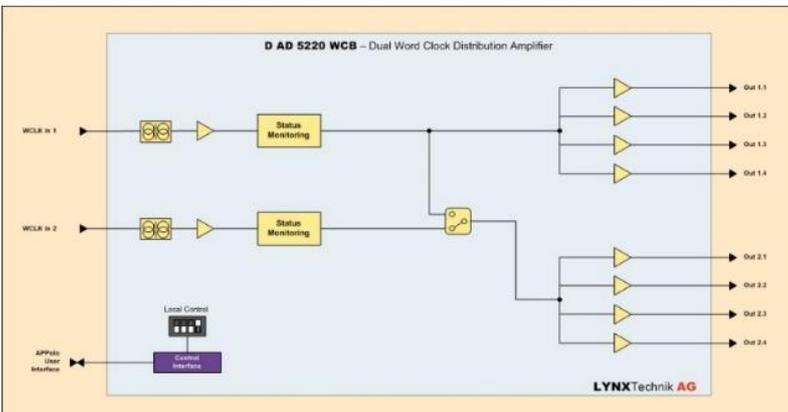
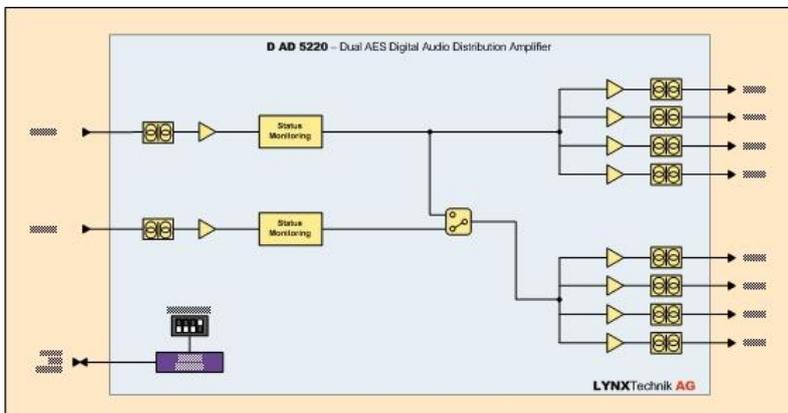


contact@spyfactory.ch **LYNX 50xx - 2RU Rack Frame + Dual Power Supply + Network/Controller** 



| Pos. | VMOD-FRAME 2.1 | | | | | | Location: SR 2 | | | | | | | | | |
|-------------|----------------|--|-------|--|-----------------|--|---------------------------|---------------------------|------------------------------|------------------------------|---------------------------|---------------------------|---------------------------|--------------------------------|---|---------|
| Type | PSU 1 | | PSU 2 | | Controller Card | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Ref. | | | | | | | DAD 5220D | DAD 5220D | DAA 5320D | | DAD 5220D | DAD 5220D | DAD 5220D | DAD 5220WCB | | RESERVE |
| Description | | | | | | | AudioDistributio n AES | AudioDistributio n AES | AudioDistributio n Analog | AudioDistributio n Analog | AudioDistributio n AES | AudioDistributio n AES | AudioDistributio n AES | Dual Wordclock Distribution | | RESERVE |

lynx FSYNC DAD 5220D, DAA5320D, DAD 5220WCB



LYNX 50xx - LYNX - Yellobrik - RFR 1000-1 rack mount



Front Frame

VMOD-FRAME 2.4

Location:

| | | | | | | | | | | | | | | | |
|------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|--|
| Pos. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
|------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|--|

Type

| | | | | | | | | | | | | | | |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| CDH 1811 | DVD 1823 | CDH 1811 | CDH 1811 | CDH 1813 | CDH 1813 | CHD 1812 | CHD 1813 | RPS 1000 |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|

Description

| | | | | | | | | | | | | | | |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|---------|---|-----------------------------|-----------------------------|----------------------------------|----------------------------------|---|--|--------------|
| FIBRE CONV 1 | FIBRE CONV 2 | FIBRE CONV 3 | FIBRE CONV 4 | FIBRE CONV 5 | FIBRE CONV 6 | RES | DVD | FIBRE CONV 7 | FIBRE CONV 8 | FIBRE CONV 21 | FIBRE CONV 22 | CHD | CHD | PSU |
| 3Gbit SDI to HDMI Converter | RESERVE | 3G-SDI Redlocking Distribution Amplifier (Dual 1:3) | 3Gbit SDI to HDMI Converter | 3Gbit SDI to HDMI Converter | 3Gbit SDI to HDMI Converter + 3D | 3Gbit SDI to HDMI Converter + 3D | 3Gbit to SDI Converter + Frame Synchronizer | 3Gbit SDI to HDMI Converter + 3D Support | Power Supply |



Diverse Tools + Wandler, Quad Splitter, USB Capture



Shogun 7 - The essential 7" workhorse that enables you to monitor-record-switch and live stream all from one device. 4x ISO + Program recording



Audio Sync Tool



AJA U-TAP SDI to USB Capture



MAGEWELL SDI Plus to USB Capture, SD/HV/3G/ 2K SDI + embedded audio, Loop-through SD/HV/3G/2K SDI, Audio input via Line in, Extract SDI embedded audio and output via Line out

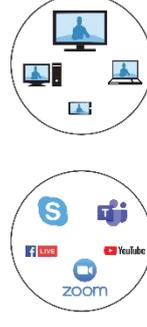


NewTek Spark Plus NDI // 3G SDI und HDMI

Encoding Input



Output



| | Spark Plus IO 4K | Spark Plus IO 3G-SDI |
|-----------------------|---------------------------------------|-------------------------------------|
| Video Input | 1 x HDMI | 1 x 3G/HD/SD-SDI |
| Video Output | 1 x HDMI | 1 x 3G/HD/SD-SDI |
| Audio Input | 3.5mm Mono Mic Level Embedded HDMI | 3.5mm Line Level Embedded 3G-SDI |
| Audio Output | 3.5mm Line Level Embedded HDMI | 3.5mm Line Level Embedded 3G-SDI |
| Audio Channels | 4 Encode 2 Decode | 16 Encode 8 Decode |
| Encoding/ Decoding | NDI* | NDI* |

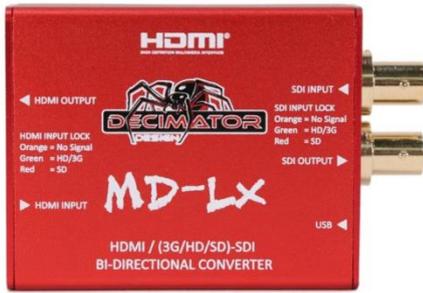


- 3G: SMPTE 424M@2.97 and 2.967Gb/s
- 1080p@60/59.94/50Hz
- HD: SMPTE 292M/274M/296M@1.485 and 1.435Gb/s
- 1080i@60/59.94/50Hz
- 1080p/psf@30/29.97/25/24/23.98Hz
- 720p@60/59.94/50/30/29.97/25/24/23.98Hz
- SD: SMPTE 259M@270Mb/s
- 625i50
- 525i59.94

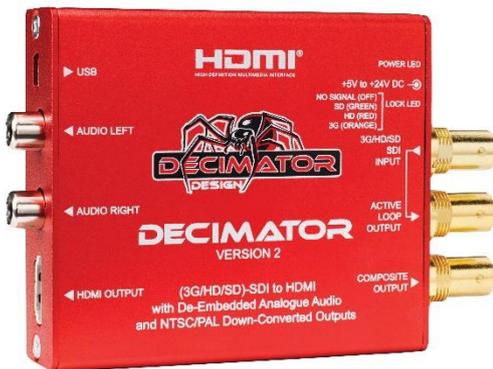
Decimator MD-QUAD (3G/HD/SD)-SDI QUAD SPLIT with (3G/HD/SD)-SDI and HDMI Outputs



Decimator MD-HX HDMI / SDI CROSS CONVERTER with Scaling and Frame Rate Conversion



Decimator MD-LX HDMI/SDI Bidirectional Converter



Decimator (3G/HD/SD)-SDI to both HDMI and NTSC/PAL with simultaneous scaling on both outputs and De-embedded Analogue Audio



5.51 in

6.69 in



1.75 in

LB
1.28 lb

Blackmagic MultiView 4 (6G/3G/HD/SD)-SDI to HDMI

many more...

Studio Monitor JVC DT-V24G1Z (24" 3G HDSDI Monitor)



| | |
|--|---|
|  | |
| Model | DT-V24G1Z |
| Viewable Screen size class (diag.) | 24-inch |
| Panel type | S-IPS |
| Panel surface | Non glare |
| Backlight | CCFL |
| Aspect ratio | 16:10 |
| Viewing angle (H/V) | 178° / 178° |
| Pixels | 1920 x 1200 |
| Brightness / Contrast | 400cd/m ² , 1,000:1 |
| Portrait mode | - |
| Features | |
| Waveform monitor | • |
| Vectorscope | • |
| Closed captioning | Analog/Digital ITU 608/708 |
| 1:1 Monitoring mode | • |
| On screen audio metering | Digital (up to 12 ch) |
| On screen time code | • |
| IMD (in monitor display) | - |
| Input / Output signals | |
| SD/HDSDI inputs | X2 in, 1 switched out w/embedded audio/TC |
| Dual link / 3G | • |
| DVI / HDMI input | DVI |
| Component input / output | Yes (Y, Pb, Pr) |
| Composite video in / out | X2 |
| Tally lamp | • |
| Audio speaker | • |
| Analog audio input | L/R (X2) |
| Analog audio monitor / output | L/R (X1) |
| Remote control | MAKE/Trigger RS-485 (I/O) RS-232C |
| General | |
| Power requirement | AC 120/220V, 50-60Hz |
| Rated current | 1.15A (AC120V) |
| Carry handle | - |
| Desktop stand | • |
| Optional accessories | RAK2024LCD (Rack mount kit) |
| External monitor calibration software | • |
| Suggested List Price | \$4,195 |

DT-V24G1Z SPECIFICATIONS

| | | |
|---|--|---|
| Type | Multi format LCD monitor | |
| Screen Size | Type 24 wide format | |
| Aspect Ratio | 16:10 | |
| LCD Panel | 24" wide, active matrix TFT | |
| Effective Screen Size (W x H) | 518.4 x 324 mm (20-1/2" x 12-7/8") | |
| Pixels | 1920 x 1200 | |
| Display Colors | 16.77 million | |
| Viewing Angle | Horizontal | 178° |
| | Vertical | 178° |
| Brightness | 400 cd/m ² | |
| Contrast Ratio | 1000: 1 | |
| Response Time (G to G) | 5 ms (TYP) | |
| H/V Frequency (PC signals) | Horizontal | 31.469 kHz to 75.000 kHz |
| | Vertical | 48 Hz - 65 Hz |
| Depending on the signal within the range of these frequencies, some signals may not be displayable in which case, "Out of range " is shown. | | |
| Applicable Standard | 3G SDI (Ready) : SMPTE424M/SMPTE425M | |
| | DUAL LINK HD SDI: SMPTE372M | |
| | HD SDI: BTA S-004C, SMPTE292M | |
| | SD SDI: ITU-R BT.656: 525/625, SMPTE259M: 525 | |
| | EMBEDDED AUDIO: SMPTE299M, SMPTE272M | |
| Audio Output | Internal speaker: 1.0 W + 1.0 W | |
| Operating Conditions | Operating temperature | 5°C to 35°C (41°F to 95°F) |
| | Operating humidity | 20% to 80% (non condensing) |
| | Storage temperature | -20°C to 60°C |
| Power Requirements | AC 120/220-240 V, 50/60 Hz | |
| Rated Current | 1.15 A (AC 120 V) / 0.67 A (AC 220 – 240 V) | |
| Dimensions (WxHxD) excluding protrusions) | With desktop stand | 564 x 448.6 x 243 mm (22-1/4" x 17-3/4" x 9-5/8") |
| | Without stand | 564 x 408 x 99 mm (22-1/4" x 16-1/8" x 4") |
| Weight | Including stand | 11.6 kg (25.5 lbs.) |
| | Excluding stand | 8.7 kg (19.1 lbs.) |
| Provided Accessories | AC power cord, power cord holder x 1, screw x 2 (for power cord holder) | |

Studio Monitor Sony LMD-A240 (24" LCD 3G HDSDI Monitor)



Der WUXGA-Monitor (1.920 x 1.200) der LMD-A-Serie im leichten und schlanken Design
Der Monitor LMD-A240 verfügt über die Standardeingänge 3G/HD/SD-SDI (2 x), HDMI (HDCP) (1 x) und Composite (1 x).

Bildleistung

| | |
|------------------------------------|--|
| Panel | a-Si TFT Active Matrix LCD |
| Bildschirmgröße (Diagonale) | 611,3 mm 24 inches |
| Effektive Bildgröße (H x V) | 518.4 x 324.0 mm 20 1/2 x 12 7/8 inches |
| Auflösung (H x V) | 1920 x 1200 Pixel (WUXGA) |
| Seitenverhältnis | 16:10 |
| Pixeleffizienz | 99,99% |
| Farben | Ca.1.073 Millionen Farben |
| Normaler Scan | 0%-Scan |

Eingang

| | |
|-------------------------------------|--|
| Composite-Eingang | BNC (1 x), 1 Vs-s ±3 dB, negative Sync. |
| SDI-Eingang | BNC (2 x) |
| HDMI-Eingang | HDMI (1) (HDCP-Unterstützung) |
| Audioeingang | Stereo-Klinkenbuchse (1 x), -5 dBu, 47 kΩ oder höher |
| Parallele Fernbedienung | Modularer Anschluss RJ-45, 8-polig (1 x) (zuweisbar) |
| Serielle Fernbedienung (LAN) | RJ-45 (1 x) (Ethernet, 10BASE-T/100BASE-TX) |
| DC Eingang | XLR-Stecker (1 x), 4-polig, 12 bis 17 V DC (Ausgangs-Impedanz max. 0,05 Ω) |

Ausgang

| | |
|--|---|
| Composite-Ausgang | BNC (1 x), Loop-Through, mit automatischem 75-Ω-Abschluss |
| SDI-Ausgang | BNC (2 x), Amplitude des Ausgangssignals: 800 m Vs-s ±10 %, Ausgangs-Impedanz: 75 Ω, asymmetrisch |
| Audio-Monitorausgang | Stereo-Klinkenbuchse (1 x) |
| Lautsprecherausgang (integrierter Lautsprecher) | 1,0 W (mono) |
| Kopfhörerausgang | Stereo-Klinkenbuchse (1 x) |