

Centaurus®.

hardware for high expectations



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Centaurus® is the industry standard for uncompressed video I/O hardware. Combining the proven technologies from the popular SDStationOEM and HDStationOEM boards, Centaurus® offers developers even more flexibility, power and reliability. The board features ultra-high data throughput with PCI-X bus architecture. It supports uncompressed SD and HD in all popular color spaces, frame rates, rasters and resolutions. For example 720p, 1080p, 1080i, 1080sF to full 2K-film (2048x1556) in 8, 10 or even 12 bit. Centaurus® is equipped with RS.422 remote control, wordclock, GPI interface and a real-time hardware mixer. The board is ideal for compositing, title generation, virtual studio, color correction and simple video I/O.

For audio processing Centaurus® supports eight channels of AES/EBU and 16 channels of embedded audio. Time codes can be generated, recorded and played out. In addition to the SD/HD-SDI interface, the board features both a DVI and an analog output – facilitating preview of the video on any standard or high-resolution display.

Centaurus® can also be used as a dual-port frame buffer for input and output of stills and short clips, whilst still allowing parallel CPU access. Centaurus® handles video data transfer rates in excess of 600 MB/sec. and so is able to cope with the most demanding system requirements.

Developers will appreciate the flexibility of the DVS API. Using the DVS software development kit (SDK), the developer can design effective and powerful editing, compositing and storage solutions. Centaurus® supports Windows® and Linux® for 32 and 64 Bit.

With more than 10 years of experience in the OEM business, the DVS OEM support-group offers the highest quality support from developers for developers. This includes online resources such as download areas and FAQ's with direct email and telephone support.

Centaurus® slots into any high-end workstation and so guarantees high-speed, high-quality desktop video on a standard and easily expandable platform with up to 3 years warranty.



Breakout Boxes



CENTAURUS

Your Benefits

- Universal half-length video I/O board
- Real-time I/O of uncompressed SD, HD and 2K streams including audio, timecode and synchronized machine control
- Highly comprehensive feature set
- Drivers for most popular operating systems on 32- and 64-bit processor architecture
- Sophisticated SDK, compatible among DVS OEM boards
- Highly skilled and qualified OEM support, from developers for developers

Key Features

- SD-/HD-SDI input and output in YUV 8/10/12 bit
- Separate connectors for SD and HD
- Dual-link SD-/HD-SDI input and output for RGB 8/10/12 bit
- Key channel for SD/HD YUVA and RGBA
- 8 channels of AES/EBU and 16 channels of embedded audio (48 kHz, 20/24 bit), analog stereo monitor output and LTC I/O with integrated audio embedder / de-embedder
- Support of all common SD, HD and 2K formats:

• SD:	525i/29.97	720 x 486 (D1) and 960 x 486 (D5)
	625i/25	720 x 576 (D1) and 960 x 576 (D5)
	625i/24	720 x 576 ('Slow PAL')
	1920 x 1080i	/24/25/29.97/30
	1920 x 1080psF	/23.98/24/25/29.97/30
	1920 x 1080p	/23.98/24/25/29.97/30
	1920 x 1035i	/29.97/30
	1280 x 720p	/23.98/24/25/29.97/30/50/59.94/60
• HSDL:	2048 x 1556psF	14.99/15/19.98/20
- 2K:

2048 x 1080i	23.98/24/25
2048 x 1080psF	/23.98/24/25
2048 x 1080p	/23.98/24/25
2048 x 1556i	23.98/24/25
2048 x 1556psF	23.98/24/25
2048 x 1556p	23.98/24/25
- Real-time hardware mixer with split-screen operation
- 256MB RAM
- HD to SD down converter
- 3:2 & 2:3 pull-down insertion & removal
- Zooming & panning for high resolution rasters
- Analog reference genlock (bi-level, tri-level) input
- Cross-Sync: SD or HD sync for HD rasters
- DVI output with analog RGBS/YUV/CVBS via breakout cable
- On-board color space conversion and low-pass 4:4:4 <-> 4:4:2 filtering
- 2 RS.422 remote in & out, software switchable
- Vertical time code (VITC) I/O with VITC generator and reader
- GPI I/O and Wordclock output
- SMPTE 201 production TC & keycode
- Vertical ancillary data (VANC) I/O with VANCgenerator and reader including closed captioning
- User definable dynamic LUT
- Flexible data formatting for all common file formats
- SDK and drivers available for most popular operating systems on 32 and 64 bit hardware architecture (Windows® and Linux®)
- Modular breakout boxes for easy plugging and handling

DVS.contact

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