



EDIUS SD is a professional, realtime, online content creation solution for the broadcast studio and features a direct upgrade path to Canopus's flagship nonlinear editing platform EDIUS HD. The combination of proprietary hardware and software gives EDIUS SD unrivaled realtime editing and content creation capabilities, with connectivity to integrate into any broadcast studio environment.



**Fully Upgradeable NLE System**

The EDIUS SD solution has been created to facilitate studios and production houses that work primarily with standard definition video content, with a view to migrating to HD content and devices. Sharing the same realtime, multi-layer HD / SD editing and effects processing featured with EDIUS HD, EDIUS SD solutions can be upgraded to full EDIUS HD systems, complete with HD I/O, at any time.

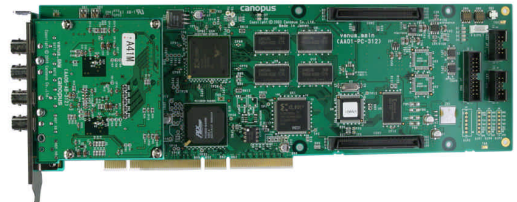
EDIUS SD and EDIUS HD solutions are completely developed internally by Canopus and are comprised of three key components; EDIUS Pro 3 application software, built with Canopus Scalable Technology for realtime HD / SD processing, the Canopus high-quality software codecs, which include lossless, uncompressed, HD, HQ, HDV, DVCPRO 50, and the SDRX-E1 input / output hardware card.

**Key Hardware Benefits**

- Seamless realtime HD / SD mixed editing and integration with EDIUS Pro 3 software
- High-quality Canopus software codecs: lossless, SD uncompressed, Canopus HD (DVCPRO HD, SMPTE compliant), Canopus HQ, DVCPRO 50, DV25, MPEG-2/MPEG-1
- Canopus SDRX-E1 - SDI input and output board
- SDI connectivity to all broadcast SD VTRs
- Frame-accurate RS-422 VTR control and external reference sync input
- SDI embedded audio and embedded TC support
- Delivered within robust, high-performance turnkey workstation configurations
- Optional breakout box with extensive input / output
- Optional VTR emulation and video I/O modules for XDCAM, P2 and VARICAM
- Scalable, future-proof hardware and video codec design for unrestricted realtime capabilities and long product life

**Canopus SDRX-E1 - SDI Input and Output Board**

EDIUS SD features a proprietary hardware baseboard and input / output daughterboard. The SDRX-E1 includes an RS-422 connector to provide accurate VTR control, a SDI input connector, two SDI output connectors and a reference input connector. The I/O daughterboard can be replaced with an HDRX-E1 HD-SDI / SDI board.



**EDIUS Multi-I/O Processing Unit for HD / SD**

Available as an option for both EDIUS SD and EDIUS HD solutions, is the HDBX1000 Multi-format Digital Interface Unit. HDBX1000 is a professional, high-quality, three-unit rackmount device, featuring every conceivable connection a broadcast studio may require. The HDBX1000 unit and included proprietary control card are common to both EDIUS SD and EDIUS HD, with the latter featuring an additional internal HD module to facilitate HD I/O and provide realtime up/down-res conversion of SD and HD footage respectively.



**HDBX1000 I/O**

**Digital I/O**

- SD-SDI
- HD-SDI
- SDI Embedded Audio
- AES/EBU Eight Channel
- RS-422A I/O
- SD Ref In (Black Burst)
- Sync Generator SD
- Embedded TC
- LTC In/Out

**Analog I/O**

- Composite
- S-Video
- RCA Two Channel (Monitor Out)
- Balanced Audio Four Channel
- Analog Component Out (BNC and D-connector)
- HD Component Out for HDV
- RS-422A I/O

**Additional HDBX1000 I/O with HD Option**

**Digital I/O**

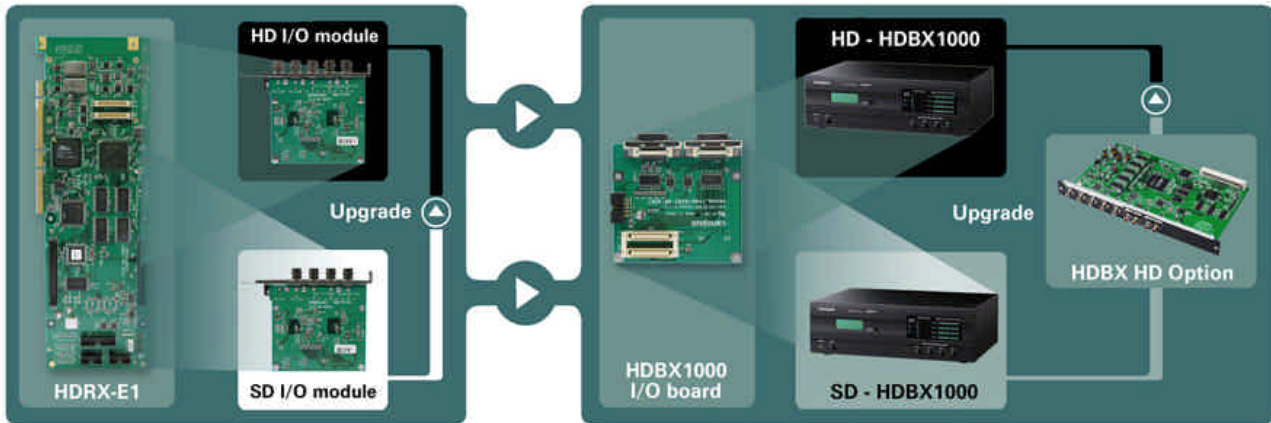
- HD-SDI
- HD Ref In (Tri-level Sync)
- Sync Generator HD
- HD Locked BB

**Analog I/O**

- HD Component Out for HD



## EDIUS SD Upgrade to EDIUS HD



## EDIUS HD / EDIUS SD Options

### HDSC-1 - HD-SDI / SDI to Analog Video Converter

Display HD and SD output from an editing system to plasma TVs, analog video monitors or computer displays - HDSC-1 is an ideal addition to EDIUS HD and EDIUS SD editing systems. HDSC-1 provides SDI output to component, RGB, S-Video and composite displays, and HD-SDI output to HD component televisions and CRT displays, such as PC monitors, that feature RGB BNC input. HDSC-1 also supports conversion of embedded audio to unbalanced audio.



### New Optional Software Modules for EDIUS SD

EDIUS SD can now be further customized to incorporate support for new and emerging video equipment and formats, including Sony XDCAM and Panasonic's P2 and VARICAM. Also available is a VTR emulation module, to allow an EDIUS SD system to function as an ingest source for playout servers.



### Hardware MPEG Encoding Options

EDIUS HD and EDIUS SD both support Canopus's MVRD2200 and MPEGPRO MVR MPEG encoding solutions. These cards provide fast, high-quality, hardware-based encoding of MPEG-1 and MPEG-2 directly from the EDIUS Pro HD timeline.

## Realtime Productivity with EDIUS Pro 3



Powering EDIUS SD is Canopus EDIUS Pro 3, nonlinear editing software.

EDIUS Pro 3 provides editors with realtime, mixed format HD / SD editing, including HD, HDV, DV, MPEG-2, lossless and uncompressed video. Featuring unrivaled realtime video transcoding technology, EDIUS Pro 3 performs conversion between different HD and SD resolutions, aspect ratios and frame rates, in realtime. EDIUS Pro 3 also features realtime playback and DV output of all effects, keyers, transitions and titles, and can export projects to any format or medium required, including DVD-Video.

## EDIUS SD Specifications

### Video Format

#### Data Compression

- HD: Canopus HD codec (1/7 compression, SMPTE-370M compliant), Canopus HQ codec
- SD: Uncompressed YUV
- DV: Canopus DV codec (1/5 compression)

#### Supported Formats

- HD: 1920x1080/59.94i, 1920x1080/60i\*, 1920x1080/50i 1280x720/59.94p, 1280x720/50p
- SD: 720x486 NTSC, 720x576 PAL (ITU-R601)

#### Internal Signal Processing

- 4:2:2 10-bit input
- 4:2:2 8-bit internal

#### Audio Format

- Embedded Audio - SMPTE299M/272M-A compliant

#### Input/Output Signal Format

- SD: SDI 10-bit (SMPTE 259M-C compliant)
- DV: IEEE 1394a

### SDRX-E1

#### Input/Output Connectors

- 1 x BNC HD-SDI/SDI input
- 2 x BNC HD-SDI/SDI output
- 1 x BNC SD REF input (Black Burst)

#### Device Control

- 9-pin D-sub RS-422A
- IEEE 1394 FireWire

Canopus Authorised Distribution Partner:

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