



SYSTEM REQUIREMENTS DIGASYSTEM

All specifications contained in this document are subject to change without notice

1 BCS

Turboplayer + MultiplayerV:

- CPU:
 - 2x Intel XEON D 5150, 3.0 GHz, 1333 MHz
 - FSB, Dual Core, 4 MB cache, LGA771, Box
- RAM:
 - 4x FB-DIMM 1024 MB, PC667, fully buffered
 - DIMM, 240pin
- HDD:
 - 2x separate HDDs; min. 36GB; SATA-drives, 10000rpm, 8MB Cache
- VGA:
 - 1x P65-MDDE128F
 - MATROX MILLENNIUM P650 DH 128MB DDR -
 - PCI16X-EX DUAL-DVI/ANALOG RETAIL
- Video I/O-card:
 - - AJA XenaLS PCI 64 Bit
 - - AJA SDI SD/HD AES/EBU 4-ch. Embedder /Disembedder
 - - AJA power supply DWP /DWP/-U
- Audiocard:
 - Mixtreme Boadcast 192
- Taskam Interface (digital or analog) plus Cable
- Optional: PCI 1760 Relaiscard

BCS Workstation:

- 1 GByte RAM, 3 GHz CPU's

Editorial (user workstation):

Audio PC DBM+DigaAirange:

- 1 GByte RAM, 3 GHz CPU's
- Audiocard: vx222 v2 oder similiar
- Video PC up to 8 mbit/s DBM :
- 1 GByte RAM, 3 GHz CPU's, HDD SATA 10000rpm

For a mixdown of audio- and videosignals:

Audio-signal of video playout has to be mixed down with audio signal of the audio-only items.

This could be processed by a mixer console or a SDI-embedder/disembedder that sends AES/EBU, therefore an AES-breakoutbox is recommended or a SPDIF-Option.

For video playback, it must be ensured that the network performance is sufficient.

If customer is looking for a specific model, we prefer to run an inhouse-test for approval.

2 AUDIO PRODUCTION

There is no specific workstation type - nevertheless HP systems has been proved as very reliable (e.g. the DC7700 as basic system) and is recommended.

Minimum System Requirements (includes upcoming Vista support)

- Intel Core2Duo T7500 @ 2 GHz (or comparable)
- At least 2 GB of RAM
- PCIe x16 or AGP 8x compatible graphic-card with a minimum of 256 MB RAM (used for Audio Editors, Single Monitor 1280x1024)
- At least 2 GB free diskpace (including Sequoia Audio-editor)

Minimum Audiohardware for Production Client

- Onboard Audio

Recommended Audiohardware for Production

- Digigram NP Boards (**VX222v2**, PCX924)

Recommended Audiohardware for Broadcast Clients

- RME MADI, Lynx 2B, Lynx64, **Mixtreme**, Mixpander
(**most common boards**)

3 VIDEO PRODUCTION

1) HiRes-Videoworkflows

(Ingest/Editing/Playout to SDI) we generally recommend the current XW-professional workstation series from HP (at this time XW8400 & XW8600)

For HiRes use it is recommended to equip the XW-workstations with 2 CPU`s (Dual- or Quadcore) and at least 1 GB of RAM (more is better).

If workstation is used for ingest as well, additionally we recommend a second local HDD for the local buffering-mechanism.

2) The videoboard we use for SD-SDI-Ingest/-Playout is the Centaurus-II from DVS.

There are 2 versions of the DVS Centaurus-II, full version

- DVS Centaurus Broadcast (Light) PCI express with reduced features (one SDI-channel)
- DVS Centaurus PCI-X (two SDI-I/O and more)

3) for LoRes-Videoworkflows (Browsing/Basic editing)

Please note:

depending on the workflows there are extra media data hard disks necessary in the system to store the media essences. If your workflow is completely netbased, additional media data hard disks are not mandatory.

We highly recommend Windows XP Prof. with SP1 as operating system, because in WinXP comes with a full integration of DirectShow/DirectX components. We also highly recommend in general to use latest available service packs from Microsoft like SP2 for WinXP, DirectX 9.0c and WindowsMediaPlayer 11.

Hardwarespecification:

Low-res editing

(e.g. 2x streams of video up to 2 Mbit, up to 8x 384 Kbit audio streams at the same time)

Minimal configuration (not applicable for ingest!)

AMD or Intel P4 >2 GHz

512 MB Ram

32Bit Graphic card 1280x1024 with 32 MB RAM and fully DirectX9 compatible

Soundblaster compatible Sound card

100 MBit Ethernet

20 GB system harddisk

Recommended

Intel P4 >2.8 GHz (with Hyperthreading)

1 GByte Ram

32Bit Graphic card 1280x1024 dual screen with 64 MB RAM and fully DirectX9 compatible

100 MBit Ethernet

Soundblaster compatible Sound card

40 GB system harddisk

High-res

(2x streams video up to 50 Mbit MPEG2, up to 32 audio streams at the same time)

Minimal configuration

P4 >3 GHz (with HT)

1 GByte Ram

32Bit Graphic card 1280x1024 with 32 MB RAM and fully DirectX9 compatible

Soundblaster compatible Sound card

Gigabit Ethernet

40 GB system harddisk

For local data:

120 GB harddisk media data; S-ATA or LVD SCSI 160 harddisk

Recommended (Ingest & Transcoding workstaton)

(HP XW 8200 or 9300 workstation)

Dual Processor Xeon P4 >2.8 GHz (with Hyperthreading support)

1 GByte Ram

32Bit Graphic card 1280x1024 dual screen with 64 MB RAM and fully DirectX9 compatible

Soundblaster compatible Sound card

Gigabit Ethernet

40 GB system harddisk For local

data: >146 GB harddisk media data; LVD SCSI 320 harddisks

For Ingest:

DVS Centaurus II SDI AES/EBU in/out card mandatory to use SDI signal

Please note:

the DVS videoboard needs a PCIX 64 bit 133Mhz or PCI-e slot for proper operating (as included in HP XW 8400 & 9300 workstations).

For transcoding it may be necessary to install additional 3rd-Party-components like WindowsMediaEncoder or Quicktime. For MXF support, installation of MOG-licences is mandatory.

Since the requirements depend very much on the desired workflow, please contact our support team for all questions related to transcoding purposes (support@david-gmbh.de).

4 SERVER PLATFORMS

We made good experience with the DL380-series from HP as video-servers for small installations (up to 5 workstations in a Hi-Res Video-workflow).

For larger installations there were several evaluations of server platforms & filesystems for a production workflow, reaching from IBM`s GPFS in conjunction with IBM- X345-nodes to ADIC`s SNFS on different server-hardware platforms.

We also use HP`s EVA-8000 series for certain workflows or Netapps-servers

Further our customers have the possibility (both for Video- and Audio-workflows) to provide a specific workstation- or server-type to DAVID for testing/certification for use in a certain workflow together with our applications; the demand for a specific workstation type might arise for our customers when they have service contracts with their hardware-suppliers which means that it can represent a massive cost factor for them.

This hardware-testing-service can be done through our QA- and support-department, but is not free of charge!