

VCube

HD VIDEO SYSTEM

*The perfect video partner
for any DAW or Mixing Console in Audio Post*

VCube is a new generation of hard-disk based video record/player specifically for use in film and television audio post-production. Designed to work with any DAW system via RS422 VCube can be configured either as a standalone system or as part of a multi-system multi-streaming centralized video network, VCube is the ultimate picture referencing tool for SD (Standard Definition) and HD (High Definition) video with sync to Pal, NTSC, Film 24fps and all HDTV frame rates.

SDI, Composite and Component Video I/O in PAL or NTSC as standard

Direct import of OMF multi-layer video compositions

CMX, EDL and AAF file capability already in development.

Supports AVI 1, AVI Ref, AVI 2, OMF, Avid Nitris (HD), QuickTime, Windows Media Video, TIF, BMP, PNG, JPEG, GIF, MPEG with MFX under development.

Compatible with Standard and High-definition video formats, either as native, or through the built-in conversion process allowing HD 1080 and higher resolutions to be used.

Water Marking Feature to protect Copyright footage

Video Clip Notation

Sync to Pal, NTSC, Film 24fps and all HDTV frame rates.

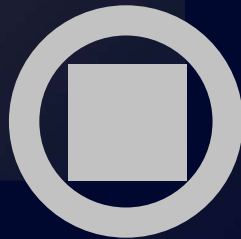
HD to SD video output, or HD output through DVI.

Options for up to 12 additional channels of audio I/O.



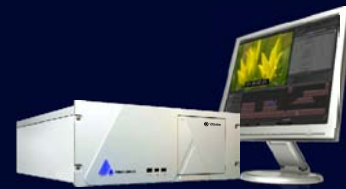
Pyramix
DIGITAL AUDIO WORKSTATION

While VCube is able to integrate with any DAW system via RS422, integration with Pyramix is achieved through standard Ethernet. This offers unique capabilities such as simultaneous time-line zooms on both systems and automatic scene change detection through EDLs, OMF or AAF with assisted re-conform.



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VCube has the ability to interface directly to an Avid Unity™ network and import OMF Multi-layer Video Compositions. All the layers and transitions, video dissolves, fades etc, are all achieved in real-time without the need to render. The system can also import OMF rendered FX.



The system can also render OMF multi-layer compositions into a single-layer file, which is especially useful for networked, centralized video streaming as well as converting one video format to another, such as HD to SD, AVI to QuickTime, OMF to AVI etc.



VCube can play different video, codecs, data and file formats within the same time-line with all video clips resized in real-time to the specified output format required. This also allows high-definition video files to be played-out directly in real-time through the standard-definition video output of the system. Alternatively, HD or SD video files can be internally reformatted to any other video format.

A Multi-VCube configuration can be structured to offer independent functionality of each VCube as a player/recorder, or with Merging's Luxor Central Server System as a central video store multi-streaming video to each VCube system. Additionally, VCubes can also be combined on a Pyramix network for the ultimate sound and picture integrated solution.

VCube can handle text overlays in realtime by adding a Text Clip with all the standard Text formatting properties + frame rectangle, background, opacity etc. Additionally, VCube offers Burnt-in Time Code, Watermark (Image and Copyright text), Alpha Channel, Output Mask, Composition encryption and password protection as well as User Administration rights with a customizable interface for each user.



Absolute synchronization at any frame rate between Pyramix and VCube is key to the high level of integration. Time-line zoom, cut, move, copy and paste functions for audio and video media can be simultaneously applied to both systems. VCube is also able to sync on a time code reference different to that of its internal frame type; allowing, for example, to play at 24fps while syncing on a 25 fps Time Code and retaining full synchronisation with Pyramix and other DAW systems.

Extensive media management, in both list views and picture views, has been designed into the VCube user interface to ensure ease of use and rapid access to all media. The system layout is also designed to support single screen and multi-screen operation.



Video inputs and outputs are through SDI, Component, Composite and S-Video in PAL or NTSC and with stereo audio at 44.1kHz or 48kHz.

Video images can be played out full screen for connection to a video monitor or projector.

