NEW ADDITIONS TO THE ArVis SYSTEM   APRIL 1990

We have made a number of significant enhancements and additions to the popular ArVis
videographics system. Our range of colour digitisers, framestores and videographic display
systems now covers every aspect of video image processing. ArVis can produce a display combining
three simultaneous images from the Archimeds, a video framestore and a live video source.

We produced the first high resolution real time colour digitiser/framestore for the Archimedes
and we believe that we are the first manufacturer to design Archimedes video systems for the new
Super VHS high definition television standard which is rapidly becoming established for
professional and amateur video recordings.

New ArVis products include a low cost professional digitiser for the graphics artist and DTP user
who wishes to create sprites from a video camera or videotape and also graphics expansion cards
to extend the Archimedes displays from 256 colours up to 32000 colours. Other ArVis models also
provide video genlock and mixing facilities to add Archimedes generated titles, captions, and
other alphanumeric data over background video images from cameras, videotape and video disc
players.

MOST ArVis VTDEOGRAPHICS PRODUCTS CAN BE SUPPLTED BOXED TO PLUG TNTO THE ARCHTMEDES A3000
EXPANSTON SLOT.

ArVis VIDEOCONTROLLER & GENLOCK EXPANSION CARD ARVC2/SVHS

This enhanced version of the original ARVC2/PAL card now caters for the growing number of people
who are using the new Super VHS video format. SVHS has much greater picture resolution than the
older PAL format and is not subject to cross colour and other disturbances which were inherent in
the old coding standard.

The card accepts either PAL or SVHS (443 YC) inputs via a 4 pin connector with automatic
standard selection. Colour bandwidth is enhanced by an active colour transient improvement
circuit.

ArVis Super VHS ENCODER ARPE9/SVHS

This board is an optional plug on expansion for the ARVC2/SVHS card. The board provides a very
high quality Super VHS (443 YC) encoded output from the RGB signals generated by the Archimedes
and the ArVis Videographics system. The output signals are available from a 4 pin SVHS connector
at the videocontroller rear panel.

The encoder features very low subcarrier leakage, a wide bandwidth, and individual' preset
controls for R,G,B balance, luminance level, sync. level, colour burst levels etc. An important
feature is the ability to colour-lock (chromalock) the output colour burst both in phase and
frequency to an incoming colour reference signal. This is essential for applications where the
encoded output signals are to be fed into external video mixing equipment. Colour lock is very
stable and can be phased over a 360 degree range by preset controls.

A 75 Ohm composite PAL output is available in addition to the separate Y and C outputs.

ArVis VIDEO DIGITISER EXPANSION CARD ARDG16

This is a very high quality 32000 colour real time digitiser capable of digitising and storing
images from live PAL/SVHS video signals (and direct RGB inputs) to a resolution of 640 x 256
pixels. The card is a low cost version of the well established ArVis videographics digitiser.
ARDG2 but without the genlock, video, and computer overlay facilities. The digitiser produces
full screen sprites in 16 bit form which can be software transposed to dithered 8 bit (or lower)
sprite images for use in paint and DTP packages. ROM based software is provided with * commands
and SWI routines.

The card includes video switching so that the live video source can be displayed on the
standard Archimedes RGB monitor in addition to the normal computer output.

ArVis VIDEOGRAPHICS EXPANSION CARD ARGFX16

This is an extended version of the ARDG16 digitiser with the added capability of writing 32000
colours directly into the framestore. The output display can be the digitised video image, the
Archimedes display, the image from the framestore or the Archimedes graphics superimposed onto
the framestored image. This card enhances the display capabilities of the Archimedes in addition
to producing sprites for DTP and paint programmes. Tt has many of the features of the ARVC2/ARDG2
ArVis system but without the ability to genlock and overlay live video images.

GRAPHICS EXPANSION CARD ARVIMAGE16

The card has a 32000 colour 16 bit 640x256 pixel framestore and display generator plus switching
to overlay RGB graphics generated by the Archimedes onto a higher resolution background from the
framestore. The card has its own output to drive any standard RGB monitor. This board does not
include a video digitiser but can of course display video images from disc files -- the display
format is compatable with the other ArVis boards. Images can be painted to the framestore
directly by the Archimedes.

COMPUTER CONTROLLED VIDEO SWITCHERS, VIDEO EFFECTS GENERATORS AND VISION MIXERS

Please contact the Sales Office for details of other vision mixing and processing equipment
which can be remotely controlled directly by the Archimedes using a serial data link.

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