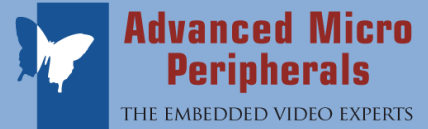


# nanoVTV

Intelligent VGA-to-NTSC/RS170 / PAL Converter



The nanoVTV is a scan converter board that accepts non-interlaced VGA signals at up to 2048x1536 resolution from a PC or Macintosh computer for conversion to broadcast-quality NTSC/RS170/PAL signals.



Full Stand-alone  
Operation

Small 2.75x1.5 inch  
form factor

Unlike conventional scan converters, the nanoVTV features on-board Frame Store and a DSP unit which performs scan conversion, flicker filtering, scaling and colour space conversion in the digital domain.

The processed video data is sent to the digital video encoder

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# nanoVTV

Intelligent VGA-to-NTSC/RS170/ PAL Converter



**Advanced Micro  
Peripherals**

THE EMBEDDED VIDEO EXPERTS

for conversion into broadcast-quality composite and S-Video NTSC, RS170 or PAL.

The nanoVTV features an board micro controller allowing it to operate completely standalone without run-time control from an external system. The settings of the card can be modified via a serial link. Application-specific configuration able to be

## Features

Converts Computer VGA to NTSC/RS170/PAL

Composite NTSC or PAL Output

Broadcast TV Quality

RS170 Composite output

Supports up to 2048x1526 VGA resolution

Simultaneous display on VGA and TV

On-board MPU

Persistent settings

Compact 2.75" by 1.5" board

Complete stand-alone operation no host computer required

Single +5V Regulated Power Supply

## Applications

Aerospace Instrumentation

Instrument Panel

Video Surveillance

Embedded Multimedia

Computer

VGA to

broadcast

quality

NTSC/RS170/PAL

Composite

Output

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### Analogue Video Input

Progressive RGB, HSync, VSync from VGA device  
Triple 8-bit digitization  
Up to 2048 x 1536 VGA Input Resolution

### Analogue Video Output

10-bit Digital-to-Analogue conversion  
Supported output standards:  
CCIR601-NTSC  
RS170  
PAL  
Composite or S-Video

### Video Output Adjustments

Contrast (or luma gain) adjustable from 0 - 200% of original  
Saturation (or chroma gain) adjustable from 0 - 200% of original  
Sharpness (or edge enhancement) adjustable over 16 steps  
Brightness (or luma level) can be adjusted from 0 - 255 steps

### Serial Interface

Standard RS232 port

### System Requirements

RS232 link for configuration only

### Miscellaneous

Single +5V at less than 2.75W  
Operating Temp of 0 to 60degC  
Extended Temperature -35 to +60degC (option nanoVTV-Ext)  
Compact 2.75 x 1.5in form factor

### Software

Configuration software for Windows-NT/2000/XP, Linux. QNX

### Ordering Information

**nanoVTV** NTSC/RS170 Output Std Temp (0 to +60degC)  
**nanoVTV-Ext** NTSC/RS170 Output, Ext Temp (-40 to +85degC)  
**nanoVTV-CP** PAL Output, Std Temp (0 to +60degC)  
**nanoVTV-CP-Ext** PAL Output, Ext Temp (-40 to +85degC)

The nanoVTV range are also available in a nonROHS compliant option (-LEADED).  
Please contact sales@ampitd.com for further information  
**nanoVTV-Leaded** NTSC/RS170 Output, nonROHS, Std Temp (0 to +60degC)  
**nanoVTV-Ext-Leaded** NTSC/RS170 Output, nonROHS, Ext Temp (-40 to +85degC)

