

Application Note:

Interfacing non-standard cameras to Matrox Genesis

VCR

July 28, 1997

Camera Descriptions	<ul style="list-style-type: none"> • 640 x 480 x 8-bit @ 30 fps (NTSC). • 768 x 574 x 8-bit @ 25fps (PAL). • Analog (composite) video output. • Interlaced.
Interface Mode	<ul style="list-style-type: none"> • Continuous
Camera Interface Briefs	<p>NTSC VCRs</p> <ul style="list-style-type: none"> • 640 x 480 x 8-bit @ 30 fps. • Analog (composite) video output. • Interlaced. • DCF Used: VCR_NTSC.DCF <div data-bbox="440 743 1435 982" data-label="Image"> <p>The diagram illustrates the connection between a VCR and a Matrox Genesis main board. On the left is a VCR unit with the label 'VCR' on its front panel. A cable labeled 'VIDEO' connects the VCR to the Matrox Genesis main board on the right. The main board is labeled 'Matrox Genesis (GEN/STD)' and features a 'Grab Module'.</p> </div> <p>PAL VCRs</p> <ul style="list-style-type: none"> • 768 x 574 x 8-bit @ 25fps (PAL). • Analog (composite) video output. • Interlaced. • DCF Used: VCR_PAL.DCF <p><small>*Matrox Genesis Main Board with Grab Module</small></p>
Camera Interface Details	<p>NTSC and PAL VCRs</p> <ul style="list-style-type: none"> • NTSC VCR tested using VCR_NTSC.DCF and Panasonic NV-FS90 (SVHS). • PAL VCR tested using VCR_PAL.DCF and Samsung VT 4240C. • The grab from a VCR is not perfect, especially when using special feature modes like slow motion, FF, REW, and PAUSE. These DCFs enable the best possible grab from a VCR during PLAY mode.
Cabling Requirements	<p>NTSC and PAL VCRs</p> <ul style="list-style-type: none"> • IMG-7W2-TO-1BNC cable required for video output of camera. • Video input BNC of IMG-7W2-TO-1BNC cable should be connected to VIDEO OUT BNC connector of VCR.

The DCF(s) mentioned in this application note can be found on the MIL and Native Library CD, or our FTP site ([ftp.matrox.com](ftp://ftp.matrox.com)). The information furnished by Matrox Electronics System, Ltd. is believed to be accurate and reliable. Please verify all interface connections with camera documentation or manual. Contact your local sales representative or Matrox Sales office or Matrox Imaging Applications at 514-822-6061 for assistance.

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