

JAI CV-M70

November 9, 1998

Camera Descriptions	 640 x 480 x 8-bit @ 30 fps. Single channel analog video output. Progressive scan. External sync. Internal exposure control. Pixel clock: 12.637 MHz 					
Interface modes	Continuous, asynchronous reset					
Camera Interface Briefs	 Continuous, asynchronous reset Mode 1: Continuous Image: Continuous Image: Contite Continuous					

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Camera Interface Details	Switch settings (SW1 on rear panel of camera) : Mode 1 : Continuous mode						
	OFF ON • 1 shutter data 2SB • 2 shutter data 1SB • 3 shutter data LSB • 4 electronic shutter • 5 scanning system • 6 gamma correction • 7 master gain • 8 local/remote						
	Mode 2 : Asynchronous reset mode						
	OFF ON • 1 shutter data 2SB • 2 shutter data 1SB • 3 shutter data LSB • 4 electronic shutter • 5 Scanning system • 6 gamma correction 7 master gain • 8 local/remote						
Cabling Requirements	Mode 1: Continuous IMG-7W2-TO-5BNC cable required for video output of camera. Red BNC connected to pin #3 (9-pin D-SUB connector-Red Video Source), Green BNC connected to pin #4 (9-pin D-SUB connector-Green Video Source), Blue BNC connected to pin #5 (9-pin D-SUB connector-Blue Video Source) and Black BNC connected to pin #7 (9-pin D-SUB connector-Black Int. Sync Out). Mode 2: Asynchronous Reset IMG-7W2-TO-5BNC and DBHD68-TO-OPEN cables required for video output of camera, and sync and control output. Red, Green, Blue and Black BNC connector (RS-232C) of the camera and the 68-pin connector of the Matrox Genesis are as follows: JAI CV-M70 (6-pin multi connector) GEN/_/_//STD (DBHD68-TO-OPEN) (68-pin digital interface connector) Pin name Pin no. TRIGGER INPUT 05						

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Cabling Requirements (continued)	• Connections between the 12-pin multi connector (DC/Ext. Sync) of the camera and the 68- pin connector of the Matrox Genesis are as follows:					
	JAI CV-M70 (12-pin multi connector)			GEN/_/_/_/STD (DBHD68-TO-OPEN) (44-pin digital interface connector)		
	Pin name	Pin no.		Pin name	Pin no.	
	HD	06	\rightarrow	HSYNC, INPUT, TTL	34	
	VD	07	\leftarrow	EXPOSURE2, OUTPUT, TTL	58	

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). 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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