<u><u><u>G</u>ENESIS</u></u>

SONY XC-7500/8500CE

Camera Descriptions	 659 x 494 (7500) and 782 x 582 (8500CE). Two channel analog video output. Interlaced or progressive scan. Internal (composite) or external sync. Internal or external exposure control. 					
Interface modes	Continuous (master or slave), Asynchronous reset					
Camera Interface Briefs	Mode 1: Continuous (Genesis Master)					
	 644 x 486 @ 60 fps (7500) 763 x 576 @ 50 fps (8500CE). Two channel analog video. Progressive scan. Matrox Genesis sending HSYNC and VSYNC signals to camera. Matrox Genesis receiving video signals from camera. DCF can support two cameras simultaneously. DCF used: 7500BM.DCF DCF used: 8500BM.DCF 					
	Mode 2: Continuous (Genesis Slave)					
	 644 x 484 @ 60 fps (7500) 763 x 574 @ 50 fps (8500CE). Two channel analog video. Progressive scan. Matrox Genesis receiving video signals from camera. DCF used: 7500B.DCF DCF used: 8500B.DCF 					

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Camera	Mode 4: Asynchronous Reset (E-DONPISHA)						
Interface	• External Switch Settings: switches located on rear panel of camera should be set as follows:						
Details (continued)	2N 2I 1N SIGNAL						
	ED N RR SHUTTER						
	A F M CR → GAIN						
	• Internal Switch Settings: switches located on SG-235 board should be set as follows: S4-1, -2 OFF						
	S6-1, -2, -7, -9, -0 ON, all others OFF (shutter speed) S7-3 ON, all others OFF						
	For information on internal switch	locations and	settings, refer	to the camera man	ual.		
Cabling	Mode 1: Continuous (Genesis Master)						
Requirements	• IMG-7W2-TO-5BNC and DBH68-TO-OPEN cables required for video output of camera and sync signals.						
	• Video input of IMG-7W2-TO-5BNC cable should be connected to video out BNC connector of camera:						
	Video Output $1 \rightarrow$ Green Cable Video Output $2 \rightarrow$ Red Cable						
	• The connections between the Digital Cable Adapter board and the 12-pin lens cont the camera are as follows:						
	Matrox Genesis (68-nin connector)		SONY X (12-nin	KC-7500/8500CE lens connector)			
	Pin name	Pin no.	Pin nam	e	Pin no.		
	HSYNC, OUTPUT, TTL	62 ®	HD INP	UT (signal)	6		
	GROUND	60	HD INP	UT (ground)	5		
	VSYNC, OUTPUT, TTL GROUND	26 B	VD INP	UT (signal) UT (ground)	7 12		
	GROUND	20	VD III	o i (giound)	12		
	Mode 2: Continuous Mode (Genesis Slave)						
	 IMG-7W2-TO-5BNC required for video output of camera. Video input of IMG-7W2-TO-5BNC cable should be connected to video out BNC connected to camera: 						
	Video Output 1 \rightarrow Green Cable Video Output 1 \rightarrow Red Cable						

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Cabling	Mode 3: Asynchronous Reset (S-DONPISHA)							
Requirements	 IMG-7W2-TO-5BNC and DBH68-TO-OPEN cables required for video output of camera, external trigger, sync and exposure signals. TTL external trigger source should be connected to the TTL trigger input of the IMG-7W2-TO-5BNC cable. Video input of IMG-7W2-TO-5BNC cable should be connected to video out BNC connector of camera: 							
	Video Output $1 \rightarrow$ Green Cable Video Output $2 \rightarrow$ Red Cable	le						
	• The connections between the Digital Cable Adapter board and the 6-pin/12-pin lens connector of the camera are as follows:							
	Matrox Genesis (68-pin connector)	D'		SONY XC-7500/8500CE (6-pin lens connector)	D:			
	EXPOSURE1, OUTPUT, TTL GROUND	24 25	R	Pin name EXT. TRIGGER INPUT GROUND	2 3			
	Matrox Genesis (68-pin connector)			SONY XC-7500/8500 CE (12-pin lens connector)				
	Pin name Pin no.			Pin name	Pin no.			
	HSYNC, OUTPUT, TTL	62	®	HD INPUT (signal)	6			
	GRUUND	60 26	0	HD INPUT (ground)	5			
	GROUND	20	w	VD INPUT (signal) VD INPUT (ground)	12			
	Mode 4: Asymphycenesis Deget Mode (F DONDISHA)							
	 The connections between the Digital Cable Adapter board and the 6-pin/12-pin lens connector of the camera are the same (except that HSYNC and VSYNC are not required) as in Mode 3: Asynchronous Reset Mode (S-DONPISHA) and include the following additional connection: 							
	Matrox Genesis (68-pin connector)			SONY XC-7500/8500 CE (6-pin lens connector)				
	Pin name	Pin no.		Pin name	Pin no.			
	TRIGGER, INPUT, TTL	67	-	WEN	4			

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 Imaging Applications at 514-822-6061 for assistance.

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