

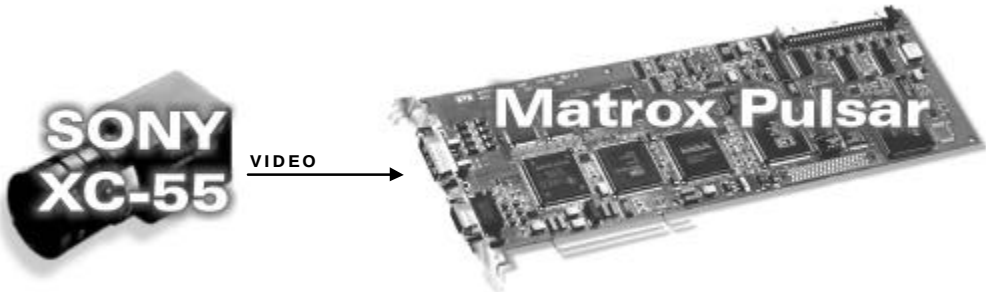
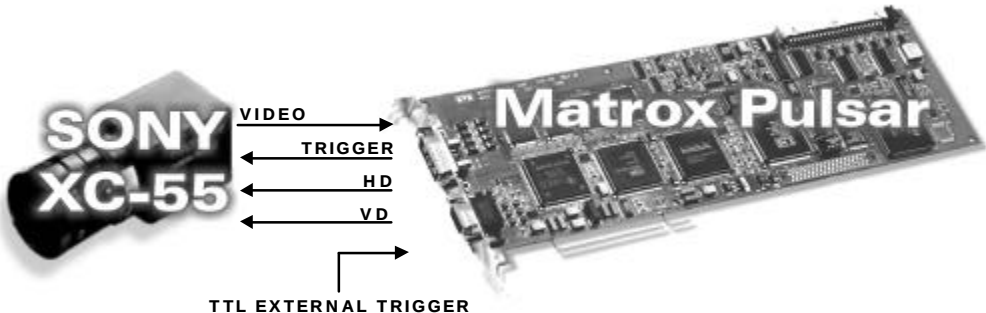
Application Note:

Interfacing non-standard cameras to Matrox Pulsar



SONY XC-55

July 18, 2000

Camera Descriptions	• $646 \times 485 \times 8$-bits. • Single channel analog video output. • Interlace or Progressive scan. • Internal (composite). • Pixel Clock rate: 12.27 MHz
Interface modes	• Continuous, Asynchronous reset (E-DONPISHA-II)
Camera Interface Briefs	Mode 1: Continuous  • $640 \times 480 \times 8$-bits. • Single channel analog video. • Interlaced or progressive scan. • Matrox Pulsar receiving continuous video signals from camera. • DCF used: XC55N.DCF (Progressive scan) • DCF used: XC55I.DCF (Interlaced) Mode 2: Asynchronous reset (E-DONPISHA-II)  • $640 \times 480 \times 8$-bits. • Single channel analog video. • Progressive scan. • Matrox Pulsar receiving TTL external trigger. • Matrox Pulsar sending EXPOSURE1 (TRIGGER) signal to camera; EXPOSURE1 (TRIGGER) signal sent to reset pixels and initiate exposure. • DCF used: XC55NA.DCF

Application Note:

Interfacing non-standard cameras to Matrox Pulsar



SONY XC-55

July 18, 2000

Camera Interface Details	Camera Switch settings (External /Internal) Mode 1: Continuous (Interlaced) 1I / Factory settings Mode 2: Continuous (Progressive scan) 1N / Factory settings Mode 3: Asynchronous reset (E-DONPISHA-II) 1N / S2 = E Mode 2: Asynchronous reset (E-DONPISHA-II)
-------------------------------------	---

Application Note:

Interfacing non-standard cameras to Matrox Pulsar



SONY XC-55

July 18, 2000

Cabling Requirements (continued)	Power Supply				Sony XC-55 (12-pin connector)	
	Pin name					
	+ 12 volts	--	--	--	+ 12 volts	11
	GROUND	--	--	--	GROUND	10

The DCF(s) mentioned in this application note can be found on the MIL and MIL-Lite CD, or our FTP site ([ftp.matrox.com](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.

Corporate headquarters:

Canada and U.S.A.

Matrox Electronic Systems
Ltd.
1055 St. Regis Blvd.
Dorval, Quebec H9P 2T4
Canada
Tel: (514) 685-2630
Fax: (514) 822-6273



PUL-CID-052