

Application Note:

Non-standard cameras working with Matrox Pulsar

Panasonic GP-MF702

November 16, 1995

Camera Interface Overview	• RS-170 - 640 x 480 x 8 @ 30 fps • TTL hsync and vsync • Non-interlaced																								
Camera Interface Details	• RS-170 - 640 x 480 x 8 @ 30 fps • Non-interlaced • Continuous video • Camera sending TTL hsync and vsync data to Matrox Pulsar • DCF used: GPMF702N.DCF																								
Cabling Requirements	• IMG-7W2-TO-BNC (or IMG-7W2-TO-5BNC) and PLS-TTL-CABLE required • Video input BNC of the IMG-7W2-TO-BNC (or IMG-7W2-TO-5BNC) cable should be connected to Video Output Connector (BNC) of the camera • Cable connections between the DB-37 connector of PLS-TTL-CABLE and the 12-pin connector of the camera are as follows: <table><tr><td colspan="2">PLS-TTL-CABLE (DB-37 connector)</td><td colspan="2">PANASONIC GP-MF702 (12-pin connector)</td></tr><tr><td><u>Pin name</u></td><td><u>Pin no.</u></td><td><u>Pin name</u></td><td><u>Pin no.</u></td></tr><tr><td>GROUND</td><td>6</td><td>GROUND</td><td>1</td></tr><tr><td>GROUND</td><td>7</td><td>GROUND</td><td>1</td></tr><tr><td>TTL_VSYNC</td><td>11</td><td>VD IN/OUT</td><td>7</td></tr><tr><td>TTL_HSYNC</td><td>26</td><td>HD IN/OUT</td><td>6</td></tr></table> • A load resistor of 75 Ω must be connected between VD and GROUND • A load resistor of 75 Ω must be connected between HD and GROUND	PLS-TTL-CABLE (DB-37 connector)		PANASONIC GP-MF702 (12-pin connector)		<u>Pin name</u>	<u>Pin no.</u>	<u>Pin name</u>	<u>Pin no.</u>	GROUND	6	GROUND	1	GROUND	7	GROUND	1	TTL_VSYNC	11	VD IN/OUT	7	TTL_HSYNC	26	HD IN/OUT	6
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Special Considerations	IMPORTANT! The aforementioned load resistors must be connected in order to protect Matrox Pulsar hardware																								

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: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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