

DALSA CA-D8-0512W (MotionVision)

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Cabling Requirements	 Mode 1: Continuous mode DBHD100-TO-OPEN cable and GEN/DIG/BRD/L board required for digital data, synchronization, and control signals in LVDS format. Connections between the DB-25 dual-row 25-pin connector (OS1) of the camera and the 100-pin connector of the GEN-DIG-BRD/L are as follows: 				
	Pin name	Pin no.		Pin name	Pin no.
	DATA, INPUT, 0+	01	\leftarrow	D0 (LSB)	08
		DATA, INPUT, 0-	02	\leftarrow	D0B
	DATA, INPUT, 1+	03	\leftarrow	D1	07
	DATA, INPUT, 1-	04	←	D1B	20
	DATA, INPUT, 2+	05	`~	D2	06
	DATA, INPUT, 2-	06	`~	D2B	19
	DATA, INPUT, 3+	07	`~	D3	05
	DATA, INPUT, 3-	08	←	D3B	18
	DATA, INPUT, 4+	09	←	D4	04
	DATA, INPUT, 4-	10	←	D4B	17
	DATA, INPUT, 5+	11	~	D5	03
	DATA, INPUT, 5-	12	~	D5B	16
	DATA, INPUT, 6+	13	`~	D6	02
	DATA, INPUT, 6-	14	`~	D6B	15
	DATA, INPUT, 7+	15	~	D7	01
	DATA, INPUT, 7-	16	~	D7B	14
	HSYNC, INPUT, +	33	~	LVAL	10
	HSYNC, INPUT, -	34	←	LVALB	23
	VSYNC, INPUT, +	35	~	FVAL	11
	VSYNC, INPUT, -	36	` ←	FVALB	24
	CLOCK, INPUT, +	39	`~	STROBE	09
	CLOCK, INPUT, -	40	\leftarrow	STROBEB	22
	 Connections between the dual-row 15-pin connector (DB15F) of the camera and the 100-pin connector of the GEN-DIG-BRD/L are as follows: GEN-DIG-BRD/L DALSA CA-D8-0512W 				
	(100-pin digital interface connector)			(15-pin connector-DB15F)	
	Pin name	Pin no.		Pin name	Pin no.
	EXPOSURE1, OUTPUT, +	95	\rightarrow	EXSYNC	12
	EXPOSURE1, OUTPUT, -	96	\rightarrow	EXSYNCB	04
	EXPOSURE2, OUTPUT, +	97	\rightarrow	PRIN	05
				PRINB	13

Application Note: Interfacing non-standard cameras to Matrox Genesis

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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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