

## Connection between CCD-1300 Camera and National Instruments PCI-1422, LVDS

CCD-1300			M-DIG		
Pin	Function	Twisted pair	Pin	Function	Color
1	PCLK	1	49	Pixel Clock +	
2	LEN	2	43	Enable B+	
3	FEN	3	41	Enable A+	
4	D0 (LSB)	4	1	DATA 0+	
5	D1	5	3	DATA 1+	
6	D2	6	5	DATA 2+	
7	D3	7	7	DATA 3+	
8	D4	8	9	DATA 4+	
9	D5	9	11	DATA 5+	
10	D6	10	13	DATA 6+	
11	D7	11	15	DATA 7+	
12	D8	12	17	DATA 8+	
13	D9	13	19	DATA 9+	
14	D10	14	21	DATA 10+	
15	D11 (MSB)	15	23	DATA 11+	
16	GND		99	GND	
control input 17	$\overline{\text{TREX}}$ (trigger input; activ low)		33	Control 0+	
control input 18	$\overline{\text{SV2}}$ (gain * 2; activ low)		35	Control 1+	
control input 19	$\overline{\text{BIN}}$ (binning mode; activ low)		37	Control 2+	
20	$\overline{\text{PCLK}}$	1	50	Pixel Clock -	
21	$\overline{\text{LEN}}$	2	44	Enable B-	
22	$\overline{\text{FEN}}$	3	42	Enable A-	
23	$\overline{\text{D0}}$	4	2	DATA 0-	
24	$\overline{\text{D1}}$	5	4	DATA 1-	
25	$\overline{\text{D2}}$	6	6	DATA 2-	
26	$\overline{\text{D3}}$	7	8	DATA 3-	
27	$\overline{\text{D4}}$	8	10	DATA 4-	
28	$\overline{\text{D5}}$	9	12	DATA 5-	
29	$\overline{\text{D6}}$	10	14	DATA 6-	
30	$\overline{\text{D7}}$	11	16	DATA 7-	
31	$\overline{\text{D8}}$	12	18	DATA 8-	
32	$\overline{\text{D9}}$	13	20	DATA 9-	
33	$\overline{\text{D10}}$	14	22	DATA 10-	
34	$\overline{\text{D11}}$	15	24	DATA 11-	
35	GND		100	GROUND	
control input 36	TREX (trigger input)				
control input 37	Mode    high $\Rightarrow$ Continuous low $\Rightarrow$ Image on Demand		39	Control 3+	