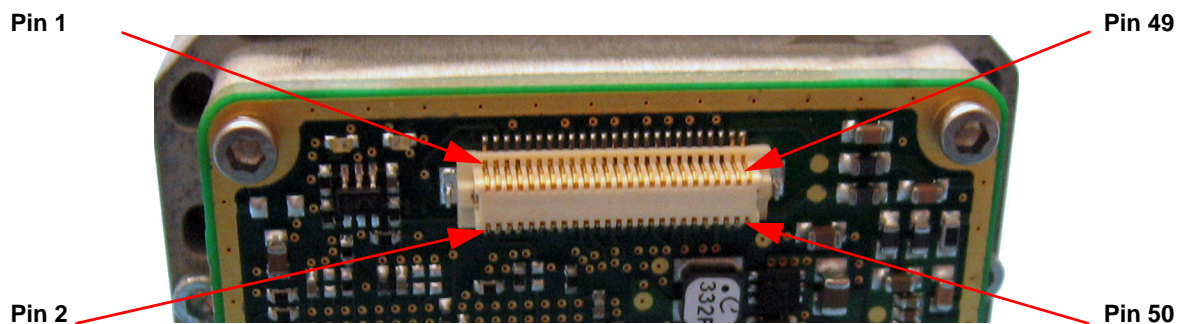


Table 5-2 below identifies the function of each pin on the standard surface mount mating connector, Hirose DF12-50DS-0.5V(86).

**Table 5-2: 50-pin Hirose Connector Interface of the Tau Camera**

Pin #	Signal Name	Signal Definition	Pin #	Signal Name	Signal Definition
1	RS232_TX	Primary serial communication transmit, data output 57600 baud	2	RS232_RX	Primary serial communication receive, data input 57600 baud
3	SPARE0	Not Used	4	SPARE1	Not Used
5, 17, 27, 37, 41, 45	DGND	Ground	6, 18, 28, 38, 42	DGND	Ground
7	LVDS_RXO_P	Not Used	8	LVDS_RXO_N	Not Used
9	LVDS_TXO_P	Digital Port1, clock, positive output	10	LVDS_TXO_N	Digital Port1, clock, negative output
11	LVDS_TX1_P	Digital Port1, Sync, Positive output	12	LVDS_TX1_N	Digital Port1, Sync Negative Output
13	LVDS_TX2_P	Digital Port1, Output data 1, Positive output	14	LVDS_TX2_N	Digital Port1, Output data 1, Negative output
15	LVDS_TX3_P	Not Used	16	LVDS_TX3_N	Not Used
19	XP15	Not Used	20	XP14	Not Used
21	XP13	Not Used	22	XP12	Not Used
23	XP11	Not Used	24	XP10	Not Used
25	XP9	Not Used	26	XP8	Not Used
29	XP7	Not Used	30	XP6	Not Used
31	XP5	Not Used	32	XP4	Not Used
33	XP3	Not Used	34	XP2	Not Used
35	XP1	Not Used	36	XPO	Not Used
39	XP_CLK_OUT	Not Used	40	XP_CLK_IN	Not Used
43	VID_OUT_H	Analog Video +	44	VID_OUT_L	Analog Video -
			46	3V3	3.3V output
47,49	MAIN_PWR_RTN	Input voltage ground	48, 50	MAIN_PWR	Input Voltage



**Figure 5-2: Mechanical Definition for 50-pin Interface Board**