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**FCB-HD Interface Board for Sony HD Cameras**

CN-1 to FCB-HD Series

CN-3 to INTERFACE

CN-4 to INTERFACE

J1 to Board to Board INTERFACE

NOTE: Composite Video & Y/C Video only operate in Standard Definition Mode, also HD Component Video only operates in High Definition Mode, which is selectable by communications and requires a hard reset.

**Connector and Pin Assignment**

Pin No.	Name	Level
CN-1 (24-pin Power, VBS, Y/C, HD Component, and Communication)		
1	GND (for TxD, RxD, & Reset-In)	
2	TxD	CMOS 5V (Low: Max 0.1V) (High: Min 2.4V) Send Data
3	RxD	CMOS 5V (Low: Max 0.8V) (High: Min 2.0V) Read Data
4	Reset-In	Reset (Low: GND), Normal (High: 3.0V, OPEN)
5	GND (for Y Signal)	
6	Y Out	
7	GND (for C Signal)	
8	C Out	
9	GND (for VBS Out)	
10	VBS Out	
11	GND (for HD Y Out)	
12	HD Y Out	
13	GND (for HD PB Out)	
14	HD PB Out	
15	GND (for HD PR Out)	
16	HD PR Out	
17	GND (for DC IN)	
18	DC IN	9.0V $\pm$ 3V
19	DC IN	9.0V $\pm$ 3V
20	DC IN	9.0V $\pm$ 3V
21	DC IN	9.0V $\pm$ 3V
22	GND (for DC IN)	
23	DC IN	9.0V $\pm$ 3V
24	GND (for DC IN)	

Supplied Cable: 24-pin, 0.5mm pitch FFC Cable. Length 3 inches (76.2mm)



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CN-3 (DC, VBS, Y/C, and HD Component)

Pin No.	Name	Level	Wire Color
1	DC IN	6V - 12V	Brown
2	GND (for DC IN)		Black
3	VBS Out	Composite Video Out	Yellow
4	GND (for VBS Out)		Black
5	Y Out		Orange
6	GND (for Y Signal)		Black
7	C Out		White
8	GND (for C Signal)		Black
9	HD Y Out		Green
10	GND (for HD Y Out)		Black
11	HD PB Out		Blue
12	GND (for HD PB Out)		Black
13	HD PR Out		Red
14	GND (for HD PR Out)		Black
15	NC		Violet

Supplied Cable: 15-pin harness cables with one Molex 1.25mm pitch connector. Length 12 inches (304.8mm)

NOTE: For communications to operate correctly DIP switches must be set to the following:

- RS-232: 1 & 2 are to be ON
- TTL: 3 & 4 are to be ON
- RS-422/485: 5 & 6 are to be ON

CN-4 (Communication connector)

Pin No.	Name	Level	Wire Color
1	TxD IN	RS-232C Level	Brown
2	Txd In A	RS-422/r85	Red
3	Txd In B	RS-422/r85	Orange
4	RxD IN	RS-232C Level	Yellow
5	TD	TTL Level	Green
6	Rxd In Y	RS-422/r85	Blue
7	Rxd In Z	RS-422/r85	Violet
8	RD	TTL Level	Gray
9	GND		White
10	NC		Black

Supplied Cable: 10-pin harness cables with one Molex 1.25mm pitch connector. Length 12 inches (304.8mm)