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FCB-RS Interface Board for Sony and Hitachi Camera

CN-1 to FCBEX and VK Series
CN-2 to FCBEX and VK Series
CN-3 to INTERFACE
CN-4 to INTERFACE

Connector and Pin Assignment

<i>CN-1 (9-pin Power, VBS and V-lock to Camera)</i>		
Pin No.	Name	Level
1	RxD	CMOS 5V (Low: Max 0.8V) (High: Min 2.0V) Read Data
2	TxD	CMOS 5V (Low: Max 0.1V) (High: Min 4.4V) Send Data
3	GND (for RxD & TxD)	
4	DC IN	9.0V +/- 3V
5	GND (For DC IN)	
6	VBS OUT	1.0V +/- 0.2V
7	GND (for VBS OUT)	
8	V LOCK PULSE OUTPUT	External VD-Lock PULse (EX.FV: Negative, 3V p-p 50% duty)
9	GND (VL PULSE)	
Supplied Cable: 9-pin FFC Cable. Length 11 1/2 inches (290mm)		

<i>CN-2 (4-pin Y/C to Camera)</i>			
Pin No.	Name	Wire color	Pin No.
1	Y OUT	Gray	1
2	GND (for Y Signal)	Black	2
3	C OUT	Gray	3
4	GND (for C Signal)	Black	4
Supplied Cable: 4-pin harness cables with the JST connector on both ends. Length 12.6 inches (320mm)			
Sold Separately: Y/C Wire Set for use with Hitachi VK Series Camera (Part No. EM42550)			

<i>CN-3 (DC, V-lock and Video Connector)</i>				
Pin No.	Name	Level	Wire color	Pin No.
1	Power In	6V-12V	Brown	9
2	GND (Power)		Red	8
3	V LOCK PULSE INPUT		Orange	7
4	Video Out	Composite Video Signal	Yellow	6
5	GND (For Video)		Green	5
6	Y-OUT		Blue	4
7	GND (for Y)		Purple	3
8	C-OUT		Gray	2
9	GND (for C)		White	1
Supplied Cable: 9-pin harness cables with the JST connector on both ends. Length 12.6 inches (320mm)				

<i>CN-4 (for Communication connector)</i>				
Pin No.	Name	Level	Wire Color	Pin No.
1	TxD IN	RS-232C Level	Brown	1
2	Txd In A	RS-422/485	Red	2
3	Txd In B	RS-422/485	Orange	3
4	RxD IN	RS-232C Level	Yellow	4
5	TD	TTL Level	Green	5
6	Rxd In Y	RS-422/485	Blue	6
7	Rxd In Z	RS-422/485	Purple	7
8	RD	TTL Level	Gray	8
9	GND		White	9
10	NC		Black	10
Supplied Cable: 10-pin harness cables with the JST connector on both ends. Length 12.6 inches (320mm)				

Turn over



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Shot

Selecting Different Serial Levels:

To select the serial level use the following table.

For	S1 position		Notes
	“On”	Off	
RS232	1,2	3,4,5,6	
TTL direct	3,4	1,2,5,6	
RS422/485	5,6	1,2,3,4	1

Notes:

1 For RS422/485 the termination jumper (JMP1) maybe removed if multiple cameras are being utilized.

See attached drawing 111657 Rev B for Connector, Switch and Mechanical lay-out information.