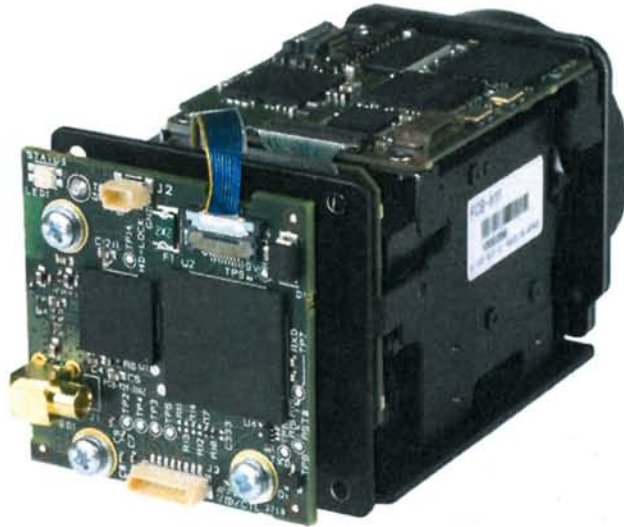


Sony FCB-H11 – HD-SDI Interface



Connecting the Adapter Board to the Camera

There are five cables supplied with the kit – a 10 way video ribbon cable, a 24 way flat cable, a power cable, a 75Ω MCX to BNC adapter and a breakout cable for video pass through and RS-232 communications. Depending on the kit ordered, a bracket is also supplied to fix the Adapter Board to the camera.

Video Ribbon Cable

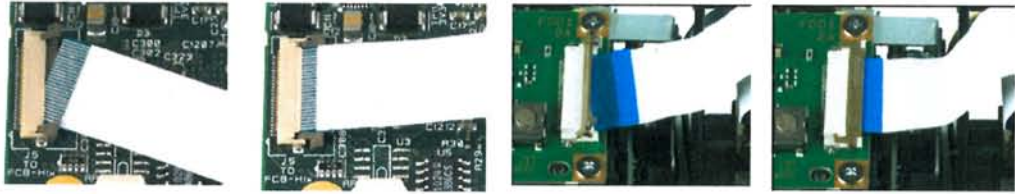
1. **Important:** This uses special coaxial cables, and unlike conventional ribbon cables it must not be folded or creased, e.g. to help give a neat cable run.
2. Connect one end of this cable into J4 on the Adapter Board, and the other end into the matching connector on the top on the camera towards the lens end. The side of the cable with the gold contacts faces away from the board. See photos below:



24 Way Flat Cable

1. Note: If the bracket is used, it is easiest to fit the cable to the Adapter Board before fitting the Adapter Board to the bracket.
2. Connect one end of this cable into J5 on the rear of the Adapter Board as follows.
3. First "hinge" open the retaining clip by simultaneously lifting both brown tabs at the ends of the connector.

- Carefully slide the end of the cable into the connector. The metal contacts of the cable face away from the board, and the cable should be inserted between the brown "ledge" of the retaining clip and the light coloured body (i.e. not between the retaining clip and the board).
- Lock the cable in place by simultaneously pressing down both brown tabs at the ends of the connector.
- See photos below:



- Similarly the other end plugs into the connector on the side of the camera, and furthest from the lens. With this connector the metal contacts face the board, and the cable should be inserted close to the board.

■ Power Cable

- This plugs into J2 on the Adapter Board.

3 Position Connector (Power Cable) J2

Position	Function
#1	9Vdc (+/-3Vdc)
#2	Ground
#3	Ground

- The other end of the cable is terminated in tinned wires which can be connected as appropriate for the application.
- Pin 1 (marked on the cable) should be connected to 9V DC, and pins 2 & 3 to 0V. This cable powers both the camera and the Adapter Board. The Adapter Board works over the same supply tolerance as the camera ($\pm 3V$).

Approximate Power Required for both the Board & Camera

Voltage	Peak Current	Nominal Current
@6V	1A	900mA
@9V	700mA	600mA
@12V	600mA	500mA

■ MCX to BNC Cable

- This plugs into J1 on the Adapter Board until it clicks.

■ Video Pass Through and Control Cable

- This plugs into J3 on the Adapter Board.

8 Position connector J3

Position	Function	Position	Function
#1	Camera RS232 RX	#5	Ground
#2	Camera RS232 TX	#6	Y Video (in HD Mode Only)
#3	Reset In (Pull to Ground to Reset Camera)	#7	Pb Video (in HD Mode Only)
#4	Composite Video (in SD Mode Only)	#8	Pr Video (in HD Mode Only)

■ Fitting the Bracket

- The Adapter Board is simply screwed to the base of the camera using four M2 screws (supplied).

■ LED Activity

- The Adapter Board is fitted with a LED to show the camera status.
- Green indicates that the camera is powered and providing valid video data.
- Red indicates that the Adapter Board is powered but no valid video data is being received. Ensure that the 10 way video cable and the 24 way flat cable are correctly connected to the Adapter Board and the camera.