

Connecting the Thomson TH78CB13 Camera to the DT3152-LS Board

The Thomson TH78CB13 camera has one 25-pin, D-shell connector required for the clock and sync signals of the DT3152-LS. The DT3152-LS uses a 15-pin, D-shell connector (J2) to connect to the 25-pin connector on the camera. A standard EP306 input cable from Data Translation or another female, 15-pin, D-shell connector is required to connect the analog video signal from the camera to the J1 connector on the DT3152-LS board.

The integration period is set by the period of the LINE_OUT signal. The recommended minimum LINE_OUT pulse width is 5 MCLK cycles; the minimum period is 1048 MCLK cycles.

The DT3152-LS requires a single-channel video output from the camera. Valid video begins at pixel 40 of each line as measured from the rising edge of the LINE_IN signal. The clamp start position is 15, the clamp end position is 20, and the pixel count is 1024. The connections between the camera and the DT3152-LS should be implemented as twisted pairs.

The following diagram outlines the necessary cable connections when connecting the Thomson TH78CB13 line-scan camera to the DT3152-LS board.

