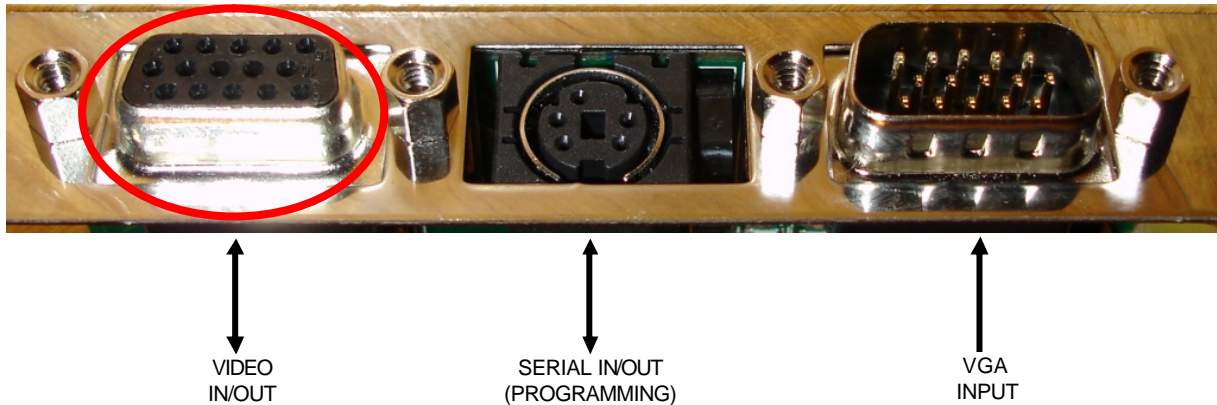


VGA overlay board – connectors and wiring



1 15 pin DSUB (male) – VGA input connector

Here you connect VGA cable coming from a VGA output on the same computer. Usually a very short VGA cable is supplied, together with a small yellow “gender-bender”.

2 5 pin mini-DIN – Serial programming connector

This connector is used with the special programming cable. Only needed when reconfiguring the board, e.g. when changing between SVIDEO or Composite video mode.

3 15 pin DSUB (female) - video in/out connector

Pin	Use
1	Red 0.7v max. / 75 Ohms
2	Green 0.7v max. / 75 Ohms
3	Blue 0.7v max. / 75 Ohms
4	S-Video Luminance (Y) input
5	S-Video Chrominance (C) input
6	Ground
7	Ground
8	Ground

Pin	Use
9	+5v through 220 Ohm
10	S-Video Luminance (Y) output
11	S-Video Chrominance (C) output
12	Ground
13	Ground
14	Composite Video input
15	Composite Video output

3.1 Wiring for standard composite in/out

Use RCA/Phono connectors on standard breakout cable. #1 = Input, #2 = Output
Start TV-One control panel, and set [Overlay, Signal type] = CVid (composite)

3.2 Wiring for standard SVIDEO in/out

Use SVIDEO connectors on standard breakout cable. #1 = Input, #2 = Output
Start TV-One control panel, and set [Overlay, Signal type] = SVid (SVIDEO)

3.3 Wiring for monochrome signal on Y in/out

This wiring can be used to get more stable picture when feeding a monochrome signal (Black/White) through the overlay board.

Instructions:

1. Cut a standard SVIDEO cable into two pieces.
2. Find wires for Luminance signal in the cutted SVIDEO cable. This should be the wires connected to pin 3 and 1 in the SVIDEO connector as indicated on drawing below.
3. For both input and output cables, solder luminance signal wire (pin 3) to composite signal (coax center)
4. For both input and output cables, solder luminance GND wire (pin 1) to composite gnd (coax shield)
5. For both input and output cables, leave the chroma signal/gnd **unconnected** (this is pin 4 and 2)
6. Connect new special input cable to SVIDEO connector 1 on the overlay board
7. Connect new special output cable to SVIDEO connector 2 on the overlay board
8. **IMPORTANT:** Verify wiring end-to-end from coax to 15 pin DSUB:
 - a. from coax center on input-cable to pin 4 on 15pin DSUB
 - b. from pin 10 on 15pin DSUB to coax center on output-cable
 - c. from ground on both input+output to 6,7,8,12 or 13 (any of these!)
9. Connect programming cable to the mini-DIN connector on the overlay board
10. Start TV-One control panel, and set [Overlay, Signal type] = SVid (SVIDEO)
11. Save settings by selecting these choices from the menu:
 - Select [NVR, Store Settings]
 - Select [NVR, VGA Store]

