

Not another VDA

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Well some of us will be using analogue for quite some time even after analogue is switched off. This VDA was the result of the old faithful falling over and the desire not to fix them. Also I had a fist full of EL4094 IC's, these are a video gain control/fader unit so it was decided to use these if we could and utilize them as the video gain control. (Do a Google search for the Data-sheets.)

Each input has a unity gain buffer as does the output. The gain control pin 7 is connected via a 10k video level control to +2.4v, this being set by a LED. It also acts as a power on indicator. The gain control allows for +/- 6db of video level. The output buffer is an EL2030 the gain set by the 470 ohm resistor with the video level set to mid travel. Extra outputs can be added if required by providing extra EL2030 video amplifiers.

The unit was built up on prototype board and performed very well.

At this stage an equalizing circuit has been added to compensate for long lengths of interconnecting video cable. A number of suggested circuits have been included either will work.

One drawback of the circuit as shown

is that no clamping of the video input was provided.

This can readily be achieved by using an EL2090 with an LM1881 (or equivalent device) sync separating IC providing the clamp pulses. See CQ-TV 208 ITS Generator for circuits using these devices. A simple emitter follow on the input followed by a discrete clamp circuit could also be used.

