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APPLICATION NOTE NO.3

CONVERTING MICROVITEC COLOUR MONITORS FROM TTL TO LINEAR INPUT

The Enterprise computers are capable of producing 256 colours. For all of these colours to be displayed correctly, a monitor with linear (analogue) inputs must be used.

These notes describe how to convert 1431,1441 and 1451 Microvitec monitors from TTL level to linear inputs.

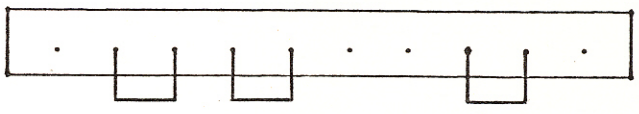
CAUTION - if you are not familiar with this sort of operation, it is wise to seek advice from a qualified television engineer or repairman as lethal voltages are present inside the case. Enterprise computers can accept no responsibility for any accidents or damage caused.

Instructions:-

1. Disconnect monitor from the mains. If the monitor has been used recently, then some internal components may still retain high voltage charges - leave for at least 2 hours before dismantling.

2. If the monitor is of the plastic cased variety, then lay it screen down on a table. Place a cloth or some foam under the screen to prevent damage. The outer case can now be removed by undoing six screws. Metal cased monitors need only have their back panels removed.

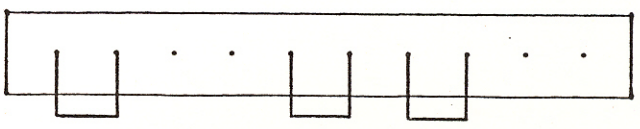
3. Locate the '10 pin in-line' connector (PL 103) on the main PCB.
   If configured for TTL levels, it should look like this:-



Where  represents a wire link.

4. Remove wire links.

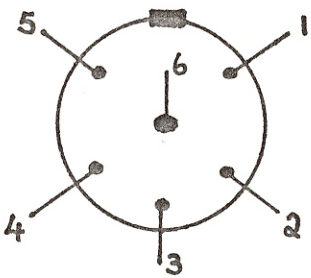
5. Re-instate wire links so that connector looks like this:-



DO NOT OPERATE WHEN DISMANTLED OR BACK REMOVED.

6. Re-assemble case/put back on.

7. The input connections are now as follows (6 pin din):-



1. Red input (RED WIRE)
2. Green input (GREEN WIRE)
3. Blue input (BLUE WIRE)
4. Composite Sync. (BROWN WIRE)
5. OV (BLACK WIRE)
6. Not connected.

IMPORTANT - if using 900-04 video cable - INSULATE ALL OTHER WIRES.