

## SCAN-2 DATASHEET

The **C.A. Designs SCAN-2** scan doubler system enables a computer video system with standard or low frequency scanning (eg CGA / EGA) to be coupled to a standard monitor of the type normally used for VGA / XGA signals.

This unit is suitable for many different process controllers or test equipment displays.

Video monitors designed to operate from old PC standards such as EGA or CGA have become expensive and difficult to source, and they are not future upgrade compatible. The problem is due to the low frequency of their horizontal deflection or scanning system.

The scan doubler reads the original video signals into a solid state memory at the original frequency and, almost simultaneously, writes this signal out again at twice the original rate.

The output signal is processed to be made compatible with standard, low-cost and easily available monitors used with current PCs.

Note that this unit does not change the vertical scan rate – check monitor specification.

The unit is programmed with default parameters suitable for a typical PC monitor output and will automatically adjust to the input signal each time the power is applied.

It also has a range of manual adjustments to modify the signal capture and picture position (see application note) which are made with a standard PC keyboard (PS/2 style).

Adjustments made are stored in non-volatile memory and can be retained when power is off (default settings can be restored if required).

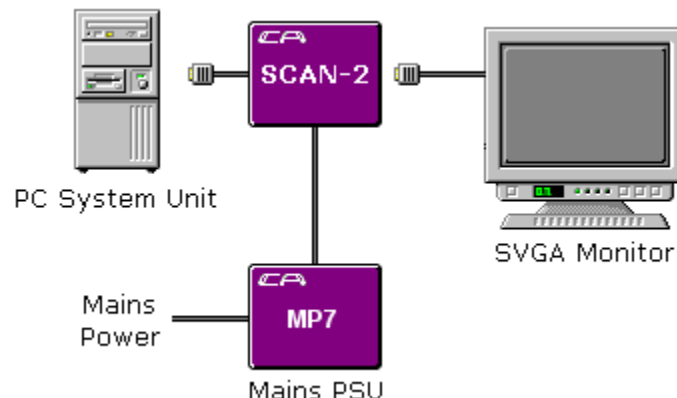
A switch is provided to disable the automatic adjustment if manual settings need to be restored at next 'power up'.

The **SCAN-2** module accepts EGA (default), or CGA video input signals. It connects directly with a computer terminal via a 9-way D male to 9-way D male lead.

Power is supplied by a 9 to 12v external PSU on a DC coaxial connector with centre pin positive.

Video is output via a 15-way high density D female socket.

## Typical System Configuration



## Specification

**INPUT :**

<b>Description</b>	<ul style="list-style-type: none"><li>• 6-bit TTL video</li><li>• Separate TTL H &amp; V syncs.</li></ul>
<b>Connectors</b>	<ul style="list-style-type: none"><li>• 9-way 'D' male</li></ul>

**OUTPUT :**

<b>Description</b>	<ul style="list-style-type: none"><li>• Analogue RGB video } similar to SVGA signals</li><li>• Separate TTL H &amp; V syncs. }</li></ul>
<b>Connector</b>	<ul style="list-style-type: none"><li>• 15-way HDD female</li></ul>

**PROGRAMMING INTERFACE (for setup adjustment if required):**

<b>Description</b>	<ul style="list-style-type: none"><li>• PS/2 type PC keyboard</li></ul>
<b>Connector</b>	<ul style="list-style-type: none"><li>• 6-pin mini-DIN socket</li></ul>

**POWER SUPPLY:**

<b>Description</b>	<ul style="list-style-type: none"><li>• +9v to 12v regulated</li></ul>
<b>Connector</b>	<ul style="list-style-type: none"><li>• 2.1mm DC coaxial connector</li><li>• Centre pin positive</li></ul>

**MECHANICAL:**

<b>Description</b>	<ul style="list-style-type: none"><li>• Beige ABS plastic case, flame retardant to UL94-V0</li><li>• 100mm wide x 60mm deep x 28mm high</li></ul>
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