

## Monitor Interface MI1A

The **C.A. Designs** monitor interface **MI1A** is a converter for transforming signals from RGB analogue video with composite sync on green into VGA-type video signals, similar to those from a PC graphics adaptor.

It may be used to enable VGA input video monitors (or printers) to receive their signals down long cable runs, from remote signal sources. RGB video with suitable timings may be made compatible for LCD monitor display.

It features balanced (75 ohm impedance) inputs and adjustable cable compensation / gain, reducing common-mode interference and picture degradation due to cable losses.

The output is similar to VGA analogue video with synchronisation signals switchable to any of five different modes:

- TTL separate horizontal & vertical syncs - switchable polarities
- switchable retiming of horizontal sync
- combined H & V sync for MAC type monitors
- switchable phase-locked loop oscillator (some LCD monitors are very sync sensitive)

VGA video outputs are constructed from the input signals with sync pulses removed from the green channel. Sync pulses are removed from the incoming green signal, restored to clean condition and output as TTL-type signals.

It is constructed in a small plastic case, powered from a plug-top 12v power supply (eg **MP7**).

Please note that this product does not change the signal scan frequencies, if this is required please see the **SCAN2\*** product range.

## Specification

INPUT SIGNALS:	
<b>Signal Type</b>	• RGB analogue with sync on green
<b>Video</b>	• 0.7v positive into 75 ohms
<b>Sync</b>	• 0.3v negative into 75 ohms
<b>Connector</b>	• 3 @ BNC sockets
OUTPUT SIGNALS:	
<b>VGA (Separate Sync)</b>	<ul style="list-style-type: none"> <li>• <b>Video</b> 0.7v positive into 75 ohms</li> <li>• <b>Sync</b> TTL H &amp; V switchable for positive or negative polarity</li> </ul>
<b>Connector</b>	• 15-way high density 'D' socket
AMPLIFIER:	
<b>Video Bandwidth</b>	• > 100Mhz
<b>Cable Compensation</b>	<ul style="list-style-type: none"> <li>• Matched to RG59U coax</li> <li>• Variable for lengths up to 200 metres</li> </ul>
POWER:	
<b>Supply</b>	• +12v dc @ 130mA max. (eg <b>MP7</b> )
<b>Connector</b>	<ul style="list-style-type: none"> <li>• 2.1mm DC power connector</li> <li>• center pin positive</li> </ul>
MECHANICAL:	
<b>Description</b>	<ul style="list-style-type: none"> <li>• Beige ABS plastic box, flame retardant to UL94-HB</li> <li>• 29mm high x 60mm wide x 96m deep</li> </ul>

## Typical Configuration

