



## DataSoft Srl

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## VisionRGB-PRO PC Capture card for Analogue RGB Data

Some working environments require constant access to VGA data from another source. Traditionally this data is transmitted over special cabling as an analogue RGB signal for display on dedicated screens which sit alongside other Windows® based screens. The drawback of such a solution is that you need an extra monitor for every RGB data feed and therefore reduced space in the work environment. The VisionRGB-PRO is the ideal solution to this problem - and means you can integrate the RGB data and get rid of the dedicated terminal.

A standalone PCI plug in card, the VisionRGB-PRO captures the display output (e.g. the analogue RGB data) from one computer screen and then displays it as an independent application, in real time, on your Windows® desktop. The VisionRGB-PRO has two VGA compatible inputs for simultaneously feeding two independent data sources directly into your main PC. The data is then converted on the VisionRGB-PRO and displayed as a standard Windows® application on your desktop. All your data in one place, and no need for that dedicated monitor!!

The VisionRGB-PRO is supplied with drivers for Windows®NT4, Windows®2000 and Windows® XP as standard, and is compatible with all graphics accelerators, including the Twinfinity and Horizon range of multi-screen adapters.

The VisionRGB-PRO is also supplied with a powerful software application for configuring the timing and the format of the input sources and displaying the captured data. We also provide an SDK so you can interface the Vision RGB-PRO to your own applications.

## Technical Specifications

<b>Board Format:</b>	PCI Level 2.1 compliant, half size plug-in card PCI Bus Master with scatter / gather DMA providing up to 132 MBytes per second data transfer
<b>Connectors:</b>	Two VGA D Type connectors
<b>Maximum Sample Rate:</b>	280 Mpixels per second
<b>Video Sampling:</b>	16 bits per pixel / 5:6:5 format
<b>Video Capture Memory:</b>	6 MBytes per channel (updated in real time)
<b>RGB Mode Support</b>	640 x 480; 800 x 600; 1024 x 768; 1600 x 1200
<b>Pixel Display Formats:</b>	555, 565 or 888 pixels
<b>Update Rate:</b>	User defined, typically up to 30 updates per second
<b>Video Format Options:</b>	RGB plus HSync and VSync (5 wire); RGB with Sync on Green (3 wire); RGB with Composite Sync (4 wire)
<b>Operating System</b>	Windows® NT4; Windows® 2000; Windows® XP

## Software Features

<b>Setup Wizard:</b>
Input Source Selection
Video Format Selection
Horizontal and Vertical Position
Horizontal Phase
Picture Adjustments
Black Level Clamping
<b>Properties:</b>
Brightness and Contrast
Sample Rate



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**Hardware up and downscaling for re-sizing the captured video.**

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**The VisionRGB-PRO uses specialised dual ported video memory to ensure the highest possible performance with low system overhead.**

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**The VisionRGB has 6MBytes of video capture memory per channel and can capture data at 640 x 480, 800 x 600, 1024 x 768 and 1600 x 1200 resolutions.**

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**The VisionRGB-PRO captures data at a maximum rate of 280Mpixels per second. Once captured, the data is converted to either 555, 565 or 888 pixel display formats and then transferred over the PCI bus to host memory, for display on the desktop.**

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**Dynamic Input Source Selection**

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**Administrator Mode**

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**Update Indicator**

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