BLACK BOX® NETWORK SERVICES

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RGB TO DVI/VGA CONVERTER

Key Features

▶ *Allows the connection of a VGA or DVI monitor to an RGB source*

▶ *Supports RGB or RGBS inputs in progressive scan or interlaced mode*

▶ *Brilliant picture quality p to 1280 x 1024*

▶ *Simple set up with more than 70 preinstalled video formats*

▶ *Video Tuning carried out via on screen display*

▶ *Output can be scaled to suit your application*

▶ *Flash Upgradable*

▶ *Fido Warranty 1 year*

Applications

Ideal for connecting PLCs, video equipment and old fashioned CPUs to modern CRT or flatscreen displays saving money, space and the time that would otherwise be needed to find an RGB monitor.

Now you can use your RGB/S Source with a modern CRT or Flatscreen It is becoming increasingly difficult to find display equipment compatible with RGB and RGBS video sources. However, there is still a lot of RGB equipment in use, particularly in industrial environments. If new display equipment is needed, and if the benefits of flatscreen technology are desired, the RGB interface will need to be converted to a more modern display standard.

Converting RGB to VGA for

display on a traditional CRT monitor is not as simple as you might at first think. Most RGB sources generate signals derived from TV/video standards with 50Hz VSYNC and 15.625KHz HSYNC. These display frequencies are too low for modern monitors and will result in an 'out or range' error message.

Displaying an RGB source on a TFT monitor poses further difficulties. A TFT must digitise the incoming video signal before display and to do this, needs to be given the exact number of pixels per line and the phase of the pixels. TFTs will not support the lower display frequencies often used by RGB sources, and in addition will often only support VESA resolutions.

The Black Box RGB to DVI/VGA converter solves these problems allowing you to connect modern display devices to your RGB equipment. The converter digitises and stores the incoming video signal before displaying it in a user selected format resulting in excellent image quality at up to 1280X1024 @ 75Hz. The converter will also allow you to scale the image to fit your screen.

Configuration

The Black Box RGB-DVI/VGA converter is simple to configure. The package includes an infrared remote control for On Screen Display configuration. The OSD can also be activated using the RS232 programming port.

The product ships with more than 70 preinstalled RGB video resolution modes and additional custom modes can be set up via the OSD.

The output resolution can be selected to match the attached display: 1280X1024, 1024X768, 800X600 640X480 @ 60Hz or 75Hz.

The output picture can be scaled to fit the attached display: 1:1 (no scaling), format filling (stretch picture to fit screen), Proportional stretching (Stretch picture proportionally to fit one screen dimension) and 2:1 (picture is double original size- all pixels become 2 wide and 2 high).

What is included:

RGB to DVI/VGA converter
RGB(S) to DVI-I cable
6VDC 12Watt autosensing power supply
DVI-I to VGA adapter
Console cable (DB9F to RJ11)
Remote control
AC power cord
User guide.

Specifications

Input video Standards:
RGB, RGBS, RGB/R GBS 0.7pp for colour signals without sync, 1Vpp for GREEN (with sync), 0.7pp for composite sync.

Bandwidth:
165MHz

Output video standard: DVI, VGA

Output video standard:
1280 x 1024, 1024 x 768, 800 x 600, 640 x480 @ 60Hz or 75Hz

Connectors:
3 x DVI-I (F), RJ11, Power.

Scaling Modes:
1:1, 2:1, Full screen (scale to fit screen), Proportional (scale to fit one screen dimension)

Power supply:
90-240 VAC

Power required: Approx 8 Watts

Dimensions: 17W x 13.3D x 4.1H cm

Operating Temperature:
41-113 degrees F (5-45 degrees C)

Storage Temperature:
-13 - 140 degrees F (-25 - 60 degrees C)

Relative Humidity:
Max 80% non-condensing

▼ *Ordering Information*

ITEM	CODE
RGB-DVI/VGA converter	ACU315A
Rackmount kit	RMK315A