- **Supports VGA and DVI Input**
- **Supports DVI-D Output**
- **Input / Output resolution up to 1920x1200 @60Hz**
- **Different scaling modes for best match to your application**
- **On Screen Display (OSD) for customization**

VGA/DVI

Converter

VGA TO DVI CONVERTER
CONNECT PAST SOURCES TO MODERN DISPLAYS
ALSO TO BE USED AS DVI SCALER.

VGA/DVI
CONVERTER

Also to be used as a DVI scaler

Input Interface	VGA, DVI-D
Output Interface	DVI-D
Input Resolution	Up to 1920x1200 @ 60 Hz or 1280x1024 @ 75Hz
Output Resolution	Up to 1920x1200 @ 60 Hz
Scaling Modes	**no scaling** – original resolution with original refresh. **scaling** – to one of 3 available output resolutions with original refresh (note: there are limits in downscaling DVI-D signals!)
Power Supply	Universal Switch mode PSU (90-240V Input)
Dimensions	103 x 143 x 29 mm desktop device (19" rack brackets available)

VGA to DVI converter

For a long time, VGA has been the most popular graphics standards for computer applications. In the VGA interface, three (coaxial) cables carry the colour information: R (red), G (green) and B (blue). In addition, there are two digital lines carrying the Synchronization signals, HSYNC and VSYNC.

Nowadays, flat screens become more and more common. Those flat screens do not longer have an electron beam, which is modulated to get more or less bright pixels on the screen. The flat screens need to have the Video information digitally and regulate the brightness by more or less twisting a 'liquid crystal' (LCD = Liquid Crystal Display). Since the screens need the information digitally, it was a small step to deliver the signals from the graphic card digitally – the launch of the DVI graphic cards. For a period of time, flat screens have been able to accept both – VGA and DVI, converting the VGA signals internally to DVI. If you want to use a DVI KVM Extender or a flat screen which provides a DVI-D input only, you need to use the VGA to DVI Converter.

There are VGA to DVI adaptors available – why do I need to have a VGA to DVI converter?

There are 3 DVI-interfaces available: DVI-D: digital video signals; DVI-A: analogue video signals (=VGA) on a DVI connector; and DVI-I combined DVI-D + VGA on a single connector. The VGA2DVI adaptor does only reroute the analogue graphic signals to the pins of a DVI-I connector – the monitor must be able, to support analogue video signals.

The use of flat screens (TFT)

Compared with using a CRT monitor, it is considerably more difficult to use a TFT screen with VGA signals. TFTs must digitize the incoming video signals and display the result. To do this, the monitor needs to be given the exact count of pixels per line and the phase of the pixels.

How does the VGA to DVI converter solve these problems?

The VGA to DVI Converter converts the signals of a VGA source in a format that can be shown on a flat screen with DVI connector.

The device digitizes the incoming video signals and stores them in an internal video memory. From there they are displayed in a compatible format: Either the original resolution and refresh rate is kept unchanged or the resolution is resized to a user selectable resolution of 640x480, 800x600, 1024x768 or 1280x1024. The refresh rate always keeps like the original signal.

As far, as our device accepts also DVI-D signals, it can be used to rescale DVI-D signals.

More than 55 video formats are pre-installed in the device's internal table – including all popular 4:3, 16:9, 16:10 and TV resolutions. Factory default setting is 'Auto- Adjust' – this means, in most cases, the device will find the proper settings for correct digitization automatically. Only in some few cases, manual adjustments via OSD are required.

Highlights

- *Perfect Image Quality at all Resolutions*
- *Output: Supports DVI video interfaces (future-proofing your investment)*
- *Input: Supports VGA, DVI*
- *Plug&Play: in most cases, the device will find the proper settings for correct digitization automatically. Only in some few cases, manual adjustments via OSD are required.*
- *Output non scaling:*
  Video Resolutions: original resolution @ original refresh rate
- *Output scaling:*
  Video Resolutions: 800x600, 1024x768, 1280x1024 @ original refresh rate
- *More than 55 video formats are preinstalled in the internal table.*
- *Integrating possibilities in switch boards by using mounting plates and in 19" boards by using rackmount kits: Mount up to 4 devices in 19"/1U – efficient use of expensive rack space.*

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