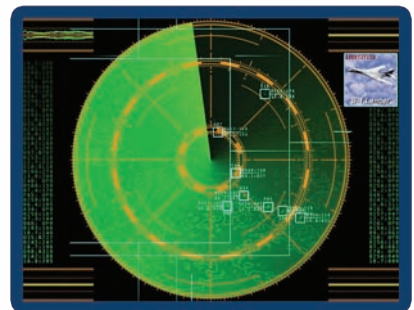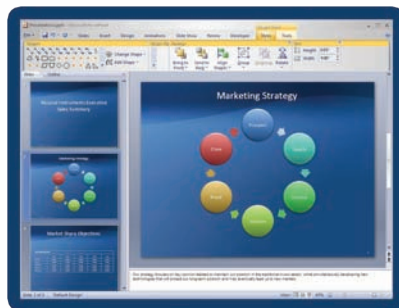# VGA2USB

The VGA2USB from Epiphan Systems is an entry-level frame grabber designed for the capture of VGA output from virtually any source - such as a Windows PC, a Macintosh OSX, a Unix machine, an embedded system, a medical device, scientific or lab equipment, and more.
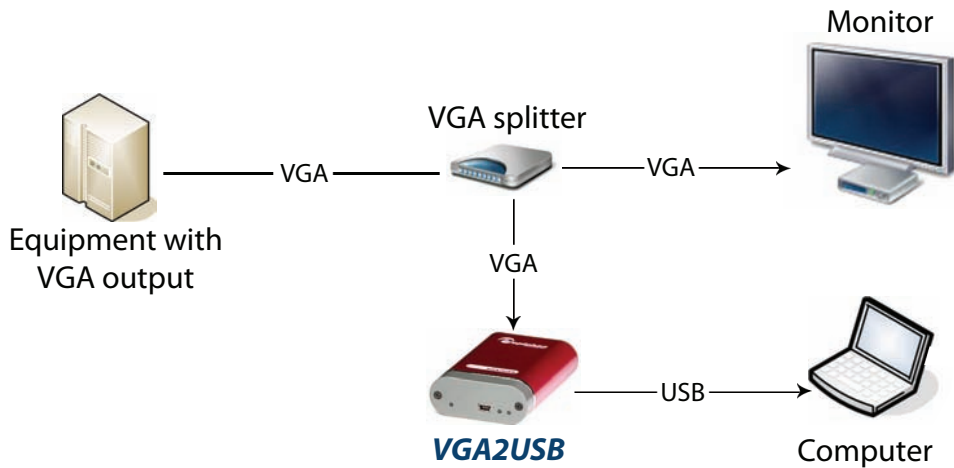
The VGA2USB makes it possible to view captured data in real time, save captured images to disk, copy captured images to a clipboard, broadcast the captured images, or setup a periodical "save" command to capture images to disk.

The VGA2USB is best suited for the capture of low resolution or mostly static output, such as presentations. This device is roughly the size of a box of paperclips and requires no additional power source to function. Software, drivers, and an SDK are available as a free download.

VGA2USB Connection Diagram

Monitor

VGA splitter

Equipment with
VGA output

VGA

VGA

VGA

VGA2USB

USB

Computer

Features:

- 2048 x 1536 maximum capture resolution.
- View, record, archive, broadcast, or print directly from a VGA stream.
- Compatible with 3rd party software via WDM drivers.
- No external power source required.
- Full hardware solution – no software required on source machine.
- Rugged design, aluminum casing.
- Can be used in military, scientific and industrial applications.

Technical Specifications:

Interface	USB 2.0
Dimensions	3.54" x 2.36" x 0.91" 90 x 60 x 23 mm
Connectors	One VGA D type connector, one USB mini B type connector
Maximum Sample Rate	230 Mpixels per second
Color Resolution	16 bits per pixel / 5:6:5 format
Supported Video Modes	640x350 at 60, 85Hz 640x400 at 60, 85Hz 720x400 at 70, 85Hz 640x480 at 60, 70, 72, 75, 85Hz 800x600 at 56, 60, 70, 72, 75, 85Hz 1024x768 at 60, 70, 72, 75, 85Hz 1152x864 at 60, 70, 75, 85Hz 1152x900 at 66, 76Hz 1280x960 at 60, 85Hz 1280x1024 at 60, 70, 75, 85Hz 1600x1200 at 60, 65, 70, 75, 85Hz 1920x1200 at 60, 70, 72, 75, 85Hz 2048x1536 at 60, 70, 72, 75, 85Hz
Update Rate	While results are typically around 10 updates per second, here are actual results under varying conditions: **Resolution** — **Win XP FPS** [1] 640 x 480 — 28.0 800 x 600 — 20.6 1024 x 768 — 10.0 1280 x 1024 — 5.6 1600 x 1200 — 4.3 1920 x 1200 — 3.1 2048 x 1536 — 2.0
Video Format Options	RGB plus HSync and VSync (5 wire)
LEDs	Three LEDs to indicate the status of the VGA2USB (power, readiness, and operation in progress)
OS Support	Linux (x86, amd64), Windows 2000, Windows XP, Windows Vista (x86, amd64), Mac OS X 10.3 and up

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