



VGA2USB HR



The VGA2USB HR from Epiphan Systems is a frame grabber designed for precise high resolution and high frame rate VGA capture. This device provides the user with a 100% lossless VGA signal grab via features such as the 32MB internal buffer memory, on board lossless frame compression, integrated color space conversion and on board cropping.



Today's demanding business environment requires precision and security - two areas where Epiphan Systems' VGA2USB HR shines.

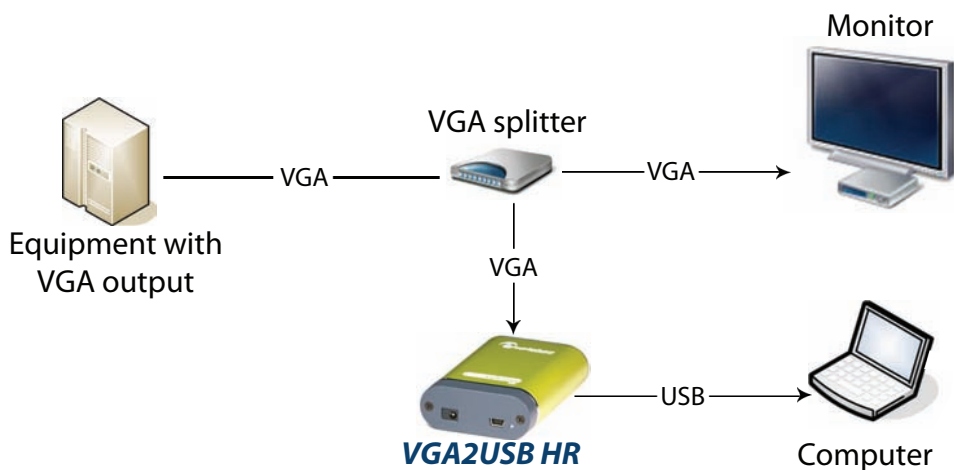
The VGA2USB HR is able to perform lossless diagnostic-quality capture at resolutions of up to 1600 x 1200. And, with a maximum transfer rate of 270 Megapixels per second, this frame grabber is able to achieve capture rates of 30 frames per second under most conditions.

No software or hardware modifications need to be performed on the source device, which makes the VGA2USB HR one of the most secure and reliable solutions for the capture of high resolution imagery.

As well, the VGA2USB HR is portable and small enough to fit into a shirt pocket, making it easy to transport between different locations and integrate into existing systems.



VGA2USB HR Connection Diagram



Features:

- 1600 x 1200 maximum capture resolution.
- Capture rates of up to 60fps.
- 32MB on board RAM buffer.
- 100% lossless on board compression.
- View, record, archive, broadcast, or print directly from a VGA stream.
- Compatible with 3rd party software via WDM drivers.
- External power source required. Universal adaptor included.
- Full hardware solution – no software required on source machine.
- Rugged aluminum casing.

Technical Specifications:

Interface	Supports USB 2.0 and USB 1.1 buses. Performance of the VGA2USB HR device will be significantly downgraded, however, when connected to a USB 1.1 bus.	
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 One 5V DC 1.3mm power supply connector	
VGA Signaling	R,G,B plus separate HSYNC and VSYNC signals; R,G,B plus CSYNC signal; R,G,B with Sync-On-Green synchronization.	
VGA Modes	HSYNC rate is between 15KHz and 150KHz Pixel rate is between 12MPixel/s and 270 MPixel/s for noninterlaced grab Pixel rate is between 270 MPixel/s and 532MPixel/s for two consequent frame interlaced grab.	
Color Resolution	RGB24 (8:8:8), RGB16 (5:6:5), RGB8 (2:3:3), YUY2, UYUV	
Supported Video Modes	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 1024x768 at 38Hz Interlaced 1600x1200 at 60, 65, 70, 75, 85Hz	
Update Rate	Frame rate varies depending on content	
	Resolution	Frame rate
	640 x 480	30.0 - 60 fps
	800 x 600	22.6 - 60 fps
	1024 x 768	15.0 - 60 fps
	1280 x 1024	10.0 - 51 fps
	1600 x 1200	5.0 - 33 fps
Video Format Options	RGB plus HSync and VSync (5 wire)	
LED	One LED 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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