

PICOLO HD™

Full HD
1920x1080

SDI / HDMI / DVI high-definition 1080p PCIe video capture cards

The Pico HD cards are high-performance PCIe video capture cards compatible with SDI, HDMI, DVI and analog video sources. They acquire high-definition (various resolutions up to 1920 x 1080) color video signals (SDI, HDMI, DVI/D, DVI/A, Y/Pb/Pr) from one HD camera in a PC environment. In addition, the Pico HD 3G DVI offers the flexibility to alternatively connect a standard-definition analog Y/C or composite video source. The Pico HD cards come with Windows-compatible drivers, with DirectShow and C APIs.



PICOLO HD One

For one SDI, HDMI, DVI or Y/Pr/Pb video sources | 30/25fps @ 1920x1080p | Audio inputs | 16 IO lines | PCIe x1



PICOLO HD H.264

For one SDI, HDMI, DVI or Y/Pr/Pb video source | 30/25fps @ 1920x1080p | H.264 compression, 2 streams | Audio inputs | 16 IO lines | PCIe x1



PICOLO HD 3G

For one SDI, HDMI, DVI or Y/Pr/Pb video source | 60/50fps @ 1920x1080p | Audio inputs | 16 IO lines | PCIe x4



PICOLO HD 3G DVI

For one DVI, Y/Pr/Pb, S-Video or CVBS video source | HD 60/50fps @ 1920x1080p - SD 525i60 and 625i50 | Audio inputs | 16 IO lines | PCIe 2.0 (Gen 2) x1

The Pico HD is ideal for products such as medical devices (for dental or image-guided surgery applications), laboratory or measuring microscopes. These cards also target single-camera applications requiring high-definition such as for video surveillance equipment or for on-site quality control in industrial environment. The Pico HD brings to these applications the clarity of real-time, high-definition 1080p video.



	PICOLo HD One	PICOLo HD H.264	PICOLo HD 3G	PICOLo HD 3G DVI
<i>Product Code</i>	1840	1842	1841	1843
Form Factor				
PCI bus	PCIe x1	PCIe x1	PCIe x4	PCIe 2.0 (Gen 2) x1
Dimension	114 x 101 mm 4.51 x 3.98 inches	155 x 101 mm 6.12 x 3.98 inches	135 x 101 mm 5.31 x 3.98 inches	135 mm x 68 mm 5.31 x 2.68 inches
Format	Full height, half length	Full height, half length	Full height, half length	Low profile, half length + Bypass module (low and standard profile brackets provided)
Audio / Video Inputs	1	1	1	1
Connectors	SDI, HDMI, DVI-I, Analog			DVI-I, Analog
Audio / Video signals	SDI and HDMI for HD digital audio/video DVI-D for HD digital video DVI-A and Y/Pb/Pr for HD analog video L/R for line-level analog stereo audio			DVI-D for HD digital video DVI-A and Y/Pb/Pr for HD analog video S-Video for SD analog Y/C video CVBS for SD analog composite video L/R for line-level analog stereo audio
HD: Formats and standards	Up to 1080p30 / 1080i60 / 720p60		Up to 1080p60 / 1080i60 / 720p60	
SD: Formats and standards	-		525i60 (NTSC M, NTSC J, PAL M) 625i50 (PAL B/D/G/H/I, PAL N)	
Audio / Video Outputs				
Connectors	-			DVI-I, Analog
Loop-through audio / video output	-			All digital and analog, audio and video input signals are replicated on the connectors of the bypass module
Video Delivery				
Raw video format	YUY2, Packed YUV 4:2:2	YV12, Planar YUV 4:2:0	YUY2, Packed YUV 4:2:2	YUY2, Packed YUV 4:2:2
HD: Deliverable video resolution	1080p or 1080i source: 1920 x 1080 down to 640 x 384 720p source: 1280 x 720 down to 640 x 384			
SD: Deliverable video resolution	-		525i60 source: 720 x 480 625i50 source: 720 x 576	
On-board Video Processing	-	Deinterlacing, denoising, On-Screen Display (OSD)	-	-
On-Board Video Compression				
Profile	H.264 Baseline and Main Profile		-	-
Bitrate control	VBR, CBR and HBR		-	-
Bitrate limit	Adjustable from 128 kbps up to 12 Mbps		-	-
Number of streams	Two, simultaneous, at source video resolution and half-resolution		-	-
Typical resolution and frame rate	1920x1080p + 960x540p@30/25/24fps 1920x1080i + 960x540i@60/50fps 1280x720p + 640x360p@60/50fps, 1280x720p + 640x360p@30/25fps, 720x480i+ 352x240i@60fps, 720x576i + 352x288i@50fps		-	-
Audio				
Connectors	SDI, HDMI, 2 x RCA			2 x RCA
Format	Stereo / 16-bit linear PCM / 32000, 44100, 48000Hz			
General Purpose IO lines	16 Inputs or Outputs			
IO connector	20-pin dual-row 0.1" pitch pin header without shrouding			
Watchdog -cable included-	✓			
Watchdog connectors	2 x 2-pin 0.1" pitch pin header without shrouding			
Video / Audio cables	1 x Component cable (Y, Pb and Pr connectors as well as 2 audio connectors)			2 x Component cables (Y, Pb and Pr connectors + 2 audio connectors)
-included with the product-				2 x S-Video/CVBS/ L/R analog audio/video cables
APIs	Windows®, C API and DirectShow			

In the interlaced (i) mode, fps stands for field per second.
In the progressive (p) mode, fps stands for frame per second



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