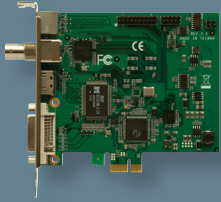


PICOLO HD™

Full HD
1920x1080

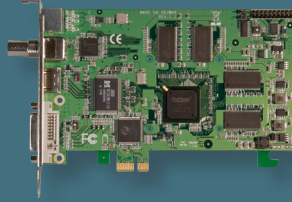
SDI / HDMI / DVI high-definition 1080p PCIe video capture cards

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.



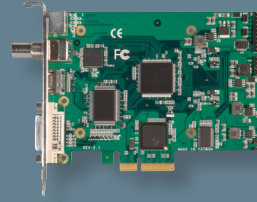
PICOLO HD One

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



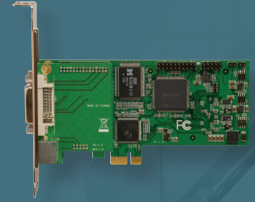
PICOLO HD H.264

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



PICOLO HD 3G

For one SDI, HDMI, DVI or Y/Pr/Pb video source | 60/50fps @ 1920x1080p | Audio inputs | 16 IO lines | PCI Express 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 | PCI Express x1 Gen2

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.



	PICOLLO HD One	PICOLLO HD H.264	PICOLLO HD 3G	PICOLLO HD 3G DVI
Product Code	1840	1842	1841	1843
Form Factor				
PCI bus	PCI Express x1	PCI Express x1	PCI Express x4	PCI Express x1 Gen2
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 I/O 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
Drivers	Windows-compatible, 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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