

vDisplay HDI-Pro External Frame Grabbers

Compact, low-power replacements for PCs at display monitors



Overview

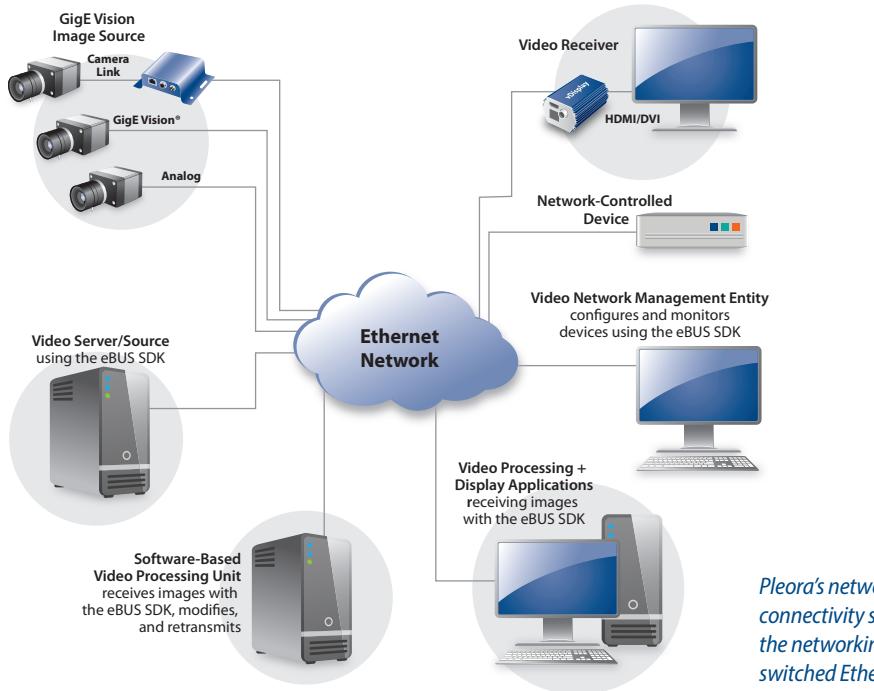
Pleora's **vDisplay™ HDI-Pro External Frame Grabbers** allow system manufacturers and integrators to increase system reliability and lower power consumption by eliminating PCs at display monitors. These external frame grabbers are compact, solid-state replacements for PCs where size, weight, or reliability are critical considerations.

The vDisplay HDI-Pro consumes approximately 3.2 Watts (W), which dramatically reduces electricity costs in 24/7 applications. A start-up time of only a few seconds provides an additional advantage over using a PC with a standard operating system. vDisplay HDI-Pro External Frame Grabbers interact seamlessly with Pleora's other products in networked digital video systems. The frame grabbers are also compatible with the GigE Vision® and GenICam™ standards, enabling them to interoperate with thirdparty equipment in multi-vendor systems. The HDI-Pro receives video data from GigE Vision® compliant cameras and outputs it in real time with low, consistent latency over an HDMI/DVI interface.

The HDI-Pro can be pre-configured to receive video from any of 32 cameras via unicast or multicast transmission, and can autonomously control up to eight cameras.

Features

- Solid-state device for display of video from GigE Visioncompliant cameras over an HDMI or DVI interface, with low, consistent latency
- Supports resolutions up to 1080p
- Auto-senses monitor resolution and refresh rate capabilities
- Autonomously controls GigE Vision-compliant cameras without the requirement for a software control application



Pleora's networked video connectivity solutions leverage the networking flexibility of the switched Ethernet architecture

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vDisplay IP Engines		Networking Features	
Key functionality <ul style="list-style-type: none"> Highly reliable, 1 Gb/s data reception rate with low latency Converts IP packets to HDMI/DVI-compatible video signals Available as enclosed unit or OEM board set 		GigE-based <ul style="list-style-type: none"> 10/100/1000 Mb/s IEEE 802.3 (Ethernet), IPv4, IGMPv2, UDP, ICMP (ping), DHCP, and jumbo packets Long reach: 100 m point-to-point, further with Ethernet switches or fiber 	
Camera type support <ul style="list-style-type: none"> Area scan and linescan Other camera types (Camera Link®, Analog, LVDS, etc) can be used in combination with a GigE Vision® compliant IP engine Supports Bayer, RGB, YUV, and monochrome pixel formats GenICam™ compliant 		GigE Vision Protocol <ul style="list-style-type: none"> GigE Vision Streaming Protocol (GVSP) GigE Vision Control Protocol (GVCP) 	
Connectors		Characteristics	
Power	12-pin Hirose (HR10A-10R-12PB)	Size (L x W x H)	<ul style="list-style-type: none"> Enclosed: 98 mm X 59 mm X 40 mm OEM: 93 mm X 51 mm X 26 mm
Network	RJ-45	Weight	<ul style="list-style-type: none"> Enclosed: 184 g OEM: 44 g
Video output	HDMI/DVI	Operating temperature	<ul style="list-style-type: none"> Enclosed: 0°C to 55°C OEM: 0°C to 70°C*
Device Control		Storage temperature	-40°C to 85°C
Setup and advanced configuration <ul style="list-style-type: none"> Via any GenICam compliant application Settings can be stored in persistent memory Plug-and-play autonomous control of GigE Vision compliant camera 		Power supply	5 V to 16 V
		Power consumption	3 W to 4.3 W (temperature and input voltage dependent)
		MTBF@40°C	730 211 hours
Ordering Information			
930-1001	vDisplay HDI-Pro External Frame Grabber in enclosure		
930-1002	vDisplay HDI-Pro Development Kit; includes 930-1001, mounting bracket with screws, power supply, and eBUS SDK USB stick		
930-1006	vDisplay HDI-Pro Developer Bundle; includes vDisplay HDI-Pro Enclosed (930-1001), bracket with mounting screws, power supply, eBUS SDK USB stick, and one year of eBUS SDK Developer Annual Maintenance and Support.		

* The product is specified for operation within the stated ambient and case temperature range of its components.