



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, power, or reliability are critical considerations.

The vDisplay HDI-Pro consumes approximately 3.2Watts (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 third-party 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. It is bundled with Pleora's feature-rich application toolkit, eBUS™ SDK.

Features

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

Ordering Information

930-1000	• vDisplay HDI-Pro External Frame Grabber board set
930-1001	• vDisplay HDI-Pro External Frame Grabber enclosed product
930-1002	• vDisplay HDI-Pro External Frame Grabber Evaluation Kit, containing 930-1001 and power supply



For more information, visit www.pleora.com



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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
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
Monitor support	<ul style="list-style-type: none"> Interoperates with VESA compliant single link monitors Auto-senses monitor display capabilities Can interoperate with custom displays by manually configuring display timing parameters

Device Control

Setup and advanced configuration	<ul style="list-style-type: none"> Via eBUS™ SDK or any GenICam compliant application Settings can be stored in persistent memory Plug-and-play autonomous control of GigE Vision compliant camera
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Networking Features

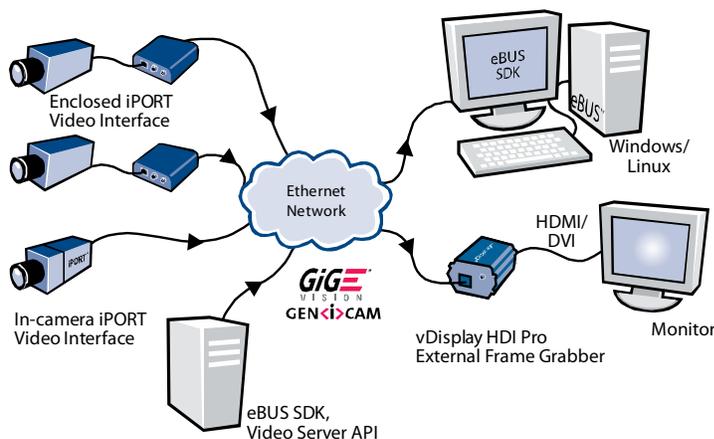
GigE-based	<ul style="list-style-type: none"> 10/100/1000 Mb/s IEEE 802.3 (Ethernet), IPv4, IGMPv2, UDP, ICMP (ping), DHCP and jumbo packets Long reach: 100 m point-to-point, further with Ethernet switches or fiber
GigE Vision Protocol	<ul style="list-style-type: none"> GigE Vision Streaming Protocol (GVSP) GigE Vision Control Protocol (GVCP)

Connectors

Power	<ul style="list-style-type: none"> 12-pin Hirose (HR10A-10R-12PB)
Network	<ul style="list-style-type: none"> RJ-45
Video output	<ul style="list-style-type: none"> HDMI/DVI

Characteristics

Size (L x W x H)	<ul style="list-style-type: none"> Enclosed unit: 81 mm X 59 mm X 40 mm OEM board set: 81 mm X 51 mm X 26 mm
Operating temperature	<ul style="list-style-type: none"> Enclosed unit: 0°C to 55°C OEM board set: 0°C to 44°C
Storage temperature	<ul style="list-style-type: none"> -40°C to 85°C
Power supply	<ul style="list-style-type: none"> 5 V to 16 V
Power consumption	<ul style="list-style-type: none"> 3 W to 4.3 W (temperature and input voltage dependent)



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