



# 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 3.2 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 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

930-1001	• vDisplay HDI-Pro External Frame Grabber in enclosure
930-1000	• vDisplay HDI-Pro External Frame Grabber OEM board set in carrier bracket
930-1002	• vDisplay HDI-Pro Development Kit; includes 930-1001, mounting bracket with screws, power supply, and eBUS SDK USB stick



For more information, visit [www.pleora.com](http://www.pleora.com)



## vDisplay HDI-Pro External Frame Grabbers

### vDisplay™ HDI-Pro External Frame Grabbers

<b>Key functionality</b>	<ul style="list-style-type: none"> <li>Highly reliable, 1 Gb/s data reception rate with low latency</li> <li>Converts IP packets to HDMI/DVI-compatible video signals</li> <li>Available as enclosed unit or OEM board set</li> </ul>
<b>Camera type support</b>	<ul style="list-style-type: none"> <li>Area scan and linescan</li> <li>Other camera types (Camera Link®, Analog, LVDS, etc) can be used in combination with a GigE Vision® compliant IP engine</li> <li>Supports Bayer, RGB, YUV, and monochrome pixel formats</li> <li>GenICam™ compliant</li> </ul>
<b>Monitor support</b>	<ul style="list-style-type: none"> <li>Interoperates with VESA compliant single link monitors</li> <li>Auto-senses monitor display capabilities</li> <li>Can interoperate with custom displays by manually configuring display timing parameters</li> </ul>

### Connectors

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

### Device Control

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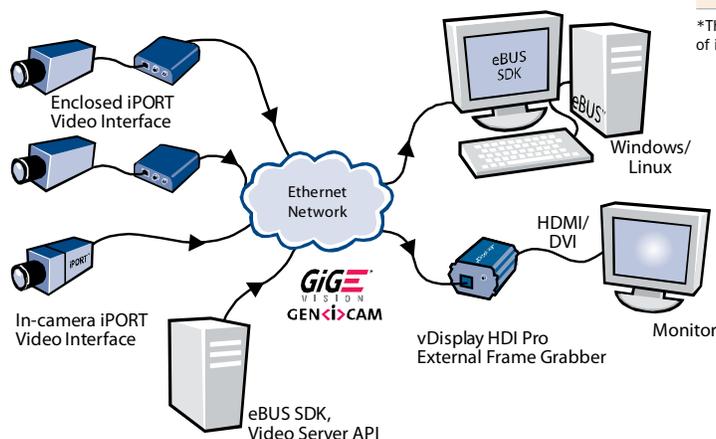
### Networking Features

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

### Characteristics

<b>Size (L x W x H)</b>	<ul style="list-style-type: none"> <li><b>Enclosed:</b> 98 mm X 59 mm X 40 mm</li> <li><b>OEM:</b> 93 mm X 51 mm X 26 mm</li> </ul>
<b>Weight</b>	<ul style="list-style-type: none"> <li><b>Enclosed:</b> 184 g</li> <li><b>OEM:</b> 44 g</li> </ul>
<b>Operating temperature</b>	<ul style="list-style-type: none"> <li><b>Enclosed:</b> 0°C to 55°C</li> <li><b>OEM:</b> 0°C to 70°C*</li> </ul>
<b>Storage temperature</b>	<ul style="list-style-type: none"> <li>-40°C to 85°C</li> </ul>
<b>Power supply</b>	<ul style="list-style-type: none"> <li>5 V to 16 V</li> </ul>
<b>Power consumption</b>	<ul style="list-style-type: none"> <li>3 W to 4.3 W (temperature and input voltage dependent)</li> </ul>
<b>MTBF@40°C</b>	<ul style="list-style-type: none"> <li>730 211 hours</li> </ul>

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



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