

vDisplay™ IP Engines

New class of GigE technology displays video streams directly on a monitor in real time without using a PC



Pleora's ground-breaking vDisplay technology platform sets the stage for a new family of IP engines that shrinks the size, cost, and power consumption of real-time viewing stations on high-performance GigE networks. The compact vDisplay IP Engines acquire video directly from a GigE network and display it on a standard digital monitor, eliminating the need for bulky and costly PC clients at each viewing node.

vDisplay is based on dedicated, low-latency hardware that efficiently converts streaming IP video to standard digital HDMI/DVI (High-Definition Multimedia Interface/Digital Visual Interface) formats – adding a rich new dimension to Pleora's end-to-end iPORT™ Video Connectivity Solution.

vDisplay is compatible with all video sources that comply with GigE Vision™, the standard for image transfer and device control managed by the Automated Imaging Association. They can accept video from any camera type, including analog, LVDS, Cam-

era Link, or custom cameras, as long as the cameras interface to GigE using a GigE Vision-compliant converter, such as one of Pleora's iPORT IP engines.

vDisplay integrates seamlessly with Pleora's industry-leading eBUS™ Drivers and iPORT PureGEV or iPORT Vision application software, forming a standards-based, end-to-end video connectivity solution that is unmatched in flexibility, performance, and ease-of-use.

The vDisplay engines are simple to operate and dramatically reduce system complexity – no need to configure multiple PCs just to view video signals. The hardware-based architecture of vDisplay minimizes system processing tasks, allowing the units to operate in real-time with low, consistent latency.

vDisplay can be connected to video sources in point-to-point configurations or as part of packet-switched GigE LANs. They feature a highly flexible interface architecture that matches most of the image formats and pixel types used in today's high-performance sensors and cameras with the refresh rates and resolutions supported by HDMI/DVI monitors.

Pleora will roll out its new family of vDisplay IP Engines technology later this year.

For more information: www.pleora.com/vDisplay

APPLICATIONS

- **Military in-vehicle video distribution**

Enables enhanced Local Situational Awareness

- **Medical imaging**

Small form factor, ultra-low latency

- **Industrial inspection**

Reduces cost and complexity



vDisplay IP Engines

Note: the information below includes common technology characteristics that apply to the entire vDisplay platform. Additional information on features for specific vDisplay IP Engines will be made available at a later time.

vDisplay IP Engines

| | |
|---------------------|--|
| vDisplay IP Engine | <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 standalone or OEM board |
| Camera type support | <ul style="list-style-type: none"> Area scan (GigE Vision) Linescan (GigE Vision) Other camera types (Camera Link, Analog, LVDS etc) can be used in combination with a GEV-compliant converter 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 HDMI/DVI displays by configuring manually display timing parameters |

Connectors

| | |
|--------------|-------------------------------------|
| Network | • RJ-45 (10/100/1000 Mb/s Ethernet) |
| Video output | • HDMI/DVI |
| Power/Serial | • 12-pin Hirose (HR10A-10R-12PB) |

Device Control

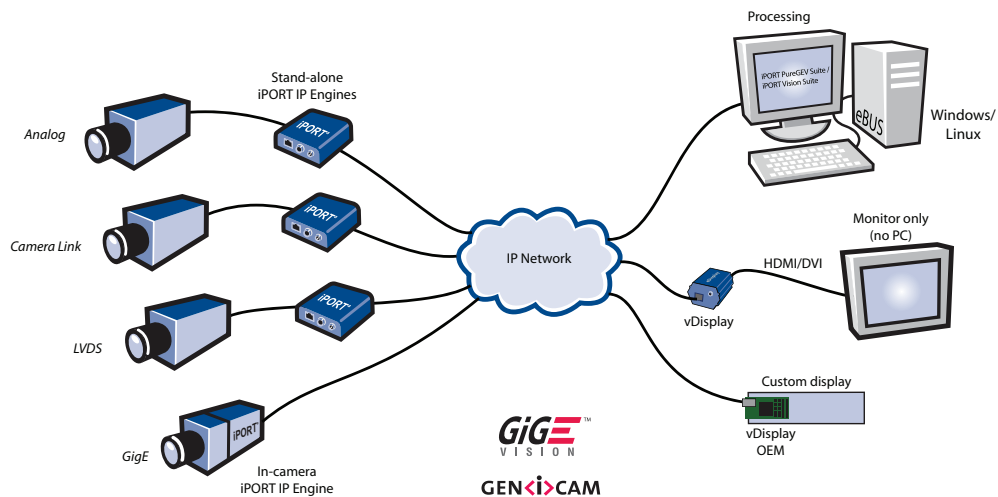
| | |
|----------------------------------|---|
| Setup and advanced configuration | <ul style="list-style-type: none"> Via PureGEV Suite or any GenICam-compliant application Settings can be stored in persistent memory |
|----------------------------------|---|

Networking Features

| | |
|----------------------|--|
| GigE-based | <ul style="list-style-type: none"> 10/100/1000 Mb/s 802.3, Ethernet v2.0, IPv4, IGMPv2, UDP and ICMP (ping) Long reach: 100 m point-to-point, further with Ethernet switches or fiber |
| GigE Vision Protocol | <ul style="list-style-type: none"> GVSP (GigE Vision Streaming Protocol) GVCP (GigE Vision Control Protocol) |

Characteristics

| | |
|-----------------------|-------------------------------------|
| Package | • 81 mm x 59 mm x 40 mm (L x W x H) |
| Operating temperature | • 0°C - 70°C |
| Power supply | • 4.5V - 16V |
| Power consumption | • 3.2 W |



Information in this document is provided in connection with Pleora Technologies products. No license, express or implied, by estoppels or otherwise, to any intellectual property rights is granted by this document. Pleora may make changes to specifications and product descriptions at any time, without notice. Other names and brands may be claimed as the property of others.