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# iPORT Analog-Pro External Frame Grabbers

Preserve investments in existing cameras and optics, while converting to fully digital video connectivity

## Overview

Pleora's iPORT™ Analog-Pro External Frame Grabbers allow system manufacturers and integrators to treat analog cameras as native GigE Vision® cameras. With these external frame grabbers, analog cameras enjoy the long-distance reach of Gigabit Ethernet (GigE) for both video and remote control, and can be mixed with native GigE Vision cameras in networked environments.

System manufacturers can shorten time-to-market, reduce development and deployment risk, and lower design and system costs by reusing expensive or application-specific analog cameras in GigE Vision installations, with minimal software development.

iPORT Analog-Pro External Frame Grabbers interact seamlessly with Pleora's other products in networked or point-to-point digital video systems. The frame grabbers also comply fully with the GigE Vision and GenICam™ standards, enabling interoperability with third-party equipment in multi-vendor environments.

Compact and simple to integrate, Analog-Pro external frame grabbers can transmit two channels of composite (NTSC, PAL, CCIR, or RS-170) video simultaneously at up to 30 frames per second (fps) each with low, predictable latency over a GigE link. GigE supports cabling distances of up to 100 meters using standard CAT5e/6 wiring. With off-the-shelf Ethernet switches, distances can be unlimited.

At the PC, Analog-Pro External Frame Grabbers connect via GigE, eliminating the need for a desktop computer with an available peripheral card slot. As a result, system designers can reduce system size, cost, and power consumption by using computing platforms with smaller form factors, such as laptops, embedded PCs, and single board computers.

The Analog-Pro is bundled with Pleora's feature-rich application toolkit, eBUS™ SDK, and compatible with Pleora's vDisplay™ External Frame Grabbers, which deliver video directly to a monitor.

## Features

- Transmits two independent channels of analog composite video over Gigabit Ethernet with low, consistent latency.
- Built-in de-interlacing algorithms.
- Supports square pixels (Q4 2013).
- RS-232 and GPIO to control external accessories.
- Available as enclosed units and OEM board sets.

## Ordering Information

900-6207	• iPORT Analog Pro External Frame Grabber board set with unsoldered GPIO/serial connector
900-6209	• iPORT Analog Pro External Frame Grabber enclosed product
900-6208	• iPORT Analog Pro External Frame Grabber Development Kit, which contains 900-6209, a power supply, and a GigE NIC



## iPORT Analog Pro External Frame Grabbers

### Networked Video Connectivity Solutions

<b>iPORT™ External Frame Grabbers</b>	<ul style="list-style-type: none"> <li>Highly reliable; up to 1 Gb/s data transfer rate with low, end-to-end latency</li> <li>OEM board set or enclosed unit</li> <li>32MB image buffer</li> <li>4 TTL inputs, 3 TTL outputs (4th TTL output available with customer-supplied connector); software-controllable</li> <li>2 RS-232 serial ports</li> </ul>
<b>eBUS™ SDK</b>	<ul style="list-style-type: none"> <li>eBUS Universal Pro driver</li> <li>Sample applications, including NetCommand™ sample application, a demonstration of multi-device network connectivity</li> <li>Driver installation tool</li> <li>Documentation</li> </ul>
<b>GigE Vision® and GenICam™</b>	<ul style="list-style-type: none"> <li>Fully-compatible firmware load</li> <li>Guarantees delivery of all packets</li> <li>Comprehensive data transfer diagnostics</li> </ul>

### Video Formats

<b>Video standards</b>	<ul style="list-style-type: none"> <li>NTSC, PAL, CCIR, RS-170</li> </ul>
<b>Pixel formats</b>	<ul style="list-style-type: none"> <li>8-bit monochrome, YUV4:2:2 (packed)</li> </ul>
<b>Deinterlacing Support</b>	<ul style="list-style-type: none"> <li>Off</li> <li>Weave</li> <li>Line duplication</li> </ul>

### Connectors

<b>Power</b>	<ul style="list-style-type: none"> <li><b>Enclosed:</b> Hirose 6-pin</li> <li><b>OEM:</b> 2-pin, 0.10" header</li> </ul>
<b>Network</b>	<ul style="list-style-type: none"> <li>RJ-45 female</li> </ul>
<b>Video interface</b>	<ul style="list-style-type: none"> <li>2 x BNC female</li> </ul>
<b>Serial and GPIO</b>	<ul style="list-style-type: none"> <li>12-pin round, locking connector</li> </ul>

### Networking Features

<b>Gigabit Ethernet-based</b>	<ul style="list-style-type: none"> <li>Low-cost, easy-to-use equipment</li> <li>Compatible with 10/100/1000 Mb/s Ethernet networks</li> <li>Supports IEEE 802.3 (Ethernet), IP, IGMP v.2, UDP and ICMP (ping)</li> <li>Long reach: 100 m point-to-point, unlimited distance with Ethernet switches</li> </ul>
<b>Multicast capability</b>	<ul style="list-style-type: none"> <li>Enables advanced distributed processing and control architectures</li> </ul>

### Characteristics

<b>Size (L x W x H)</b>	<ul style="list-style-type: none"> <li><b>Enclosed:</b> 113mm x 82mm x 51mm</li> <li><b>OEM:</b> 105 mm X 52 mm X 42 mm</li> </ul>
<b>Operating temperature</b>	<ul style="list-style-type: none"> <li>0°C to 40°C (OEM higher with thermal pad)</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>Maximum 4W (with both channels in use)</li> </ul>

