

## **VISTA-P4**

### **Compact, high-performance vision system**

The **VISTA-P4** is the ideal machine vision system for those who need a high-performance, PC-based platform in a compact and industrial package.

#### Main features

- Operates just like a desktop PC
- Extremely high performance
- Works with popular frame grabbers
- USB and IEEE 1394 interfaces for suitable cameras
- Compact, industrial enclosure



The system can be supplied with your choice of half-length, PCI or PCI-Express frame grabber. Alternatively, users can simply take advantage of the on-board USB and IEEE 1394 interfaces to deploy suitable cameras without any additional hardware. We can also install your Application Software and provide you with a fully tested and ready-to-use solution.

The **VISTA-P4** is offered as a panel-mounting system that can be conveniently integrated into your design. The low power consumption of the unit simplifies the integration and minimizes cooling requirements of industrial equipment cabinets. Thanks to the compact and smartly-designed enclosure, all connectors and indicators are readily accessible from the same side to facilitate easy installation.

The hardware components of the system are based entirely on high-quality, commercially available, off-the-shelf components from reputable, world-class suppliers. As the result, the performance and reliability of the unit are significantly enhanced without any compromise on functionality. Moreover, this concept eliminates the need for dedicated Technical Support staff that has to be trained on custom hardware and thereby minimizes the cost of your initial development and ownership.

Whether you are an OEM or End-user, the **VISTA-P4** offers you an attractive alternative to desktop or rack-mount PCs and provides you a solution for rapidly marketing your machine vision systems.

## Specifications

Feature	Model		
	VIA	Pentium M	Core Duo
<b>CPU</b>	VIA C7 processor 1.5 GHz (See Note 1) Bus: 400/533 MHz	Intel® Pentium M processor 2.0 GHz (See Note 1) Front side bus: 400/533MHz	Intel® Core Duo processor 2.33 GHz (See Note 1) Front side bus: 533/667MHz
<b>Chipset:</b>	VIA CN700	Intel® 845GV (Northbridge) and ICH4 (Southbridge)	Intel® 945GM (Northbridge) and ICH7-M (Southbridge)
<b>Memory</b>	512 Megabytes DDR2 533MHz Upgrade to 1.0 Gigabytes available as an option	512 Megabytes DDR 266 MHz Upgrade to 1.0 Gigabytes available as an option	1.0 Gigabytes DDR2 667MHz Upgrade to 3.0 Gigabytes available as an option
<b>Expansion slot</b>	One 32-bit PCI	One 32-bit PCI	One 16x PCI-Express (compatible with 1x slot)
<b>LAN Interface</b>	Integrated VIA VT6103 LAN- PHY Controller Support 10/100 BASE-T	One Intel 82541PI Gigabit LAN	One 1Gbps by Intel
<b>USB</b>	2 Hi-Speed USB 2.0 interfaces with up to 480 Mbps of data transfer rate (See Note 2)	2 Hi-Speed USB 2.0 interfaces with up to 480 Mbps of data transfer rate (See Note 2)	2 Hi-Speed USB 2.0 interfaces with up to 480 Mbps of data transfer rate (See Note 2)
<b>IEEE 1394</b>	1 IEEE1394 port with 400Mb/s transfer rate	1 IEEE1394 port with 400Mb/s transfer rate	1 IEEE1394 port with 400Mb/s transfer rate
<b>I/O Ports</b>	1 Serial, PS/2 keyboard and mouse ports	1 serial, 1 Parallel, PS/2 keyboard and mouse ports (See note 3)	1 serial, 1 Parallel, PS/2 keyboard and mouse ports (See note 3)
<b>VGA Interface</b>	Internal AGP 8x	Intel® 845GV GMCH	Intel® 945GM GMCH
<b>Video Memory</b>	8/16/32/64MB frame buffer using system memory	Up to 64MB shared with system memory	Up to 224MB shared with system memory
<b>Audio Interface</b>	AC'97 Digital Audio controller 6-channel AC'97 Audio CODEC	Intel ICH4 with Realtek® ALC655 AC97 3D audio codec	Intel® ICH7M with Realtek® ALC880 High Definition Audio compliance. 5.1 CH
<b>Hard disk</b>	40 Gigabytes (Larger capacity drives are available as an option)		
<b>Operating system</b>	Windows XP Professional SP2 (Windows XP Embedded is available as an option)		
<b>Power Requirement</b>	12 VDC, 80 watts (See Note 4)	12 VDC, 110 watts (See Note 4)	12 VDC, 110 watts (See Note 4)
<b>Dimensions</b>	190 (H) x 195 (W) x 83 (D) mm 7.48 (H) x 7.68 (W) x 3.27 (D) inches		
<b>Weight</b>	1.45 Kg (3.20 lb)	1.5 Kg (3.31 lb)	1.5 Kg (3.31 lb)
<b>Operating environment</b>	0 ~ 40 C (32 ~ 105 F) 10-90% Relative humidity, non-condensing		
<b>Safety approval</b>	CE, UL		

### Notes:

- 1) Faster processors may have become available since this document was produced. Contact us for further details.
- 2) 4 additional (2 with the Pentium M model) USB 2.0 connectors are available as an option. The connectors will take up the PCI/PCI-Express slot available for the frame grabber. This option suits systems that deploy USB cameras without a frame grabber.
- 3) The RS232 serial port connector is not available on the I/O panel unless the PCI/PCI-Express slot is used to mount the connector.
- 4) Universal voltage AC adapters are available as an option.

### Accessories

<b>Frame grabber</b>	Contact us for the latest list of supported hardware
<b>CD/DVD RW</b>	An external, USB-driven unit is available as an option for software installation and backup

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