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TECHNOLOGY GROUP

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so your equipment works exactly as you specify.

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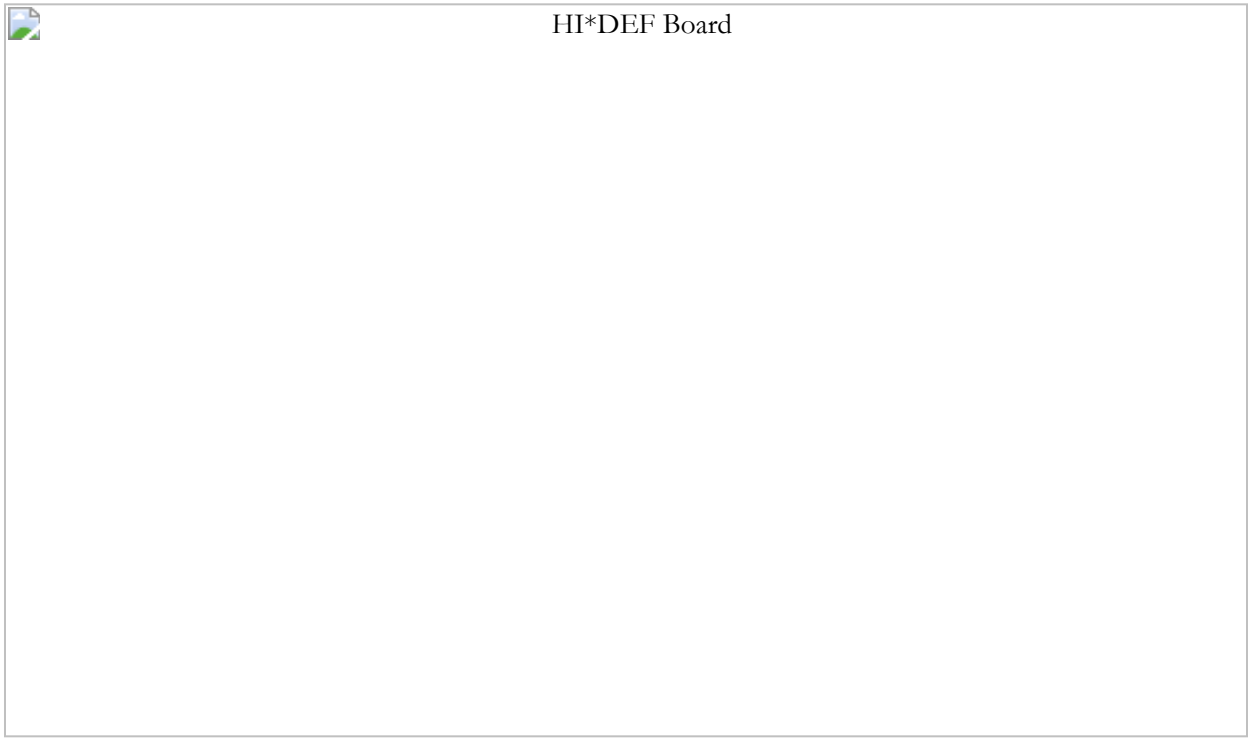
Expert team | Trust guarantee | 100% satisfaction

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Find the *Foresight Imaging / Lumisys / Imagraph HI-DEF OA* at our website: ***Click HERE***

HI*DEF

High Resolution, High Accuracy Image Capture Boards



One Frame Grabber—Any Source

The HI*DEF series of frame grabbers are simply the most advanced and highest accuracy image capture products available. HI*DEF captures images from any analog video source with the utmost precision and quality, delivering diagnostic-quality images for any image management or measurement application. Some of these applications include medical imaging such as Teleradiology and PACS, as well as machine vision, inspection, microscopy, and capture from high resolution computer workstations. With HI*DEF's ±0.5 ns pixel jitter, 50 dB signal-to-noise ratio[1], minimal nonlinearity, and Auto-TEMP automatic temperature stabilization[1], the highest image quality is guaranteed.

With Auto-SYNC, IMAGRAPH's revolutionary automatic configuration software, HI*DEF reliably and automatically configures itself to any analog video signal to allow for the perfect image capture every time. This unique software ensures quick and error-free installation and image capture, even when the specifications of the input video signal are unknown. This ease of installation, high quality, and repeatable results have made HI*DEF the frame grabber of choice whenever the application demands accuracy and precision.

The HI*DEF family of frame grabbers consists of the following products, providing options for various configurations and budgets:

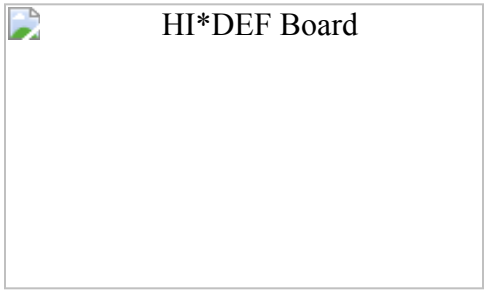
- **HI*DEF Accura:** **150 MHz, 8/10 bit, PCI bus**
- **HI*DEF Plus:** **140 MHz, 8 bit, ISA bus**
- **HI*DEF Plus LF:** **30 MHz, 8 bit, ISA bus, lower cost**

The key features of HI*DEF include:

- Extreme Accuracy ±0.5 ns pixel jitter; 8 or 10 bit acquisition
- High Performance Up to 132 MB/sec PCI transfers
- Flexibility Up to 4,000 x 4,000 pixel input
- Programmability Up to 75 MHz single pass and 150 MHz dual pass pixel rate
- Multiple Inputs Up to four inputs
- Ease of Use Auto-SYNC performs automatic configuration and setup
- Stability Auto-TEMP for consistent and repeatable results

HI*DEF Feature Matrix

	HI*DEF Accura	HI*DEF Plus	HI*DEF Plus LF
Bus	PCI	ISA	ISA
Pixel Rate	Up to 75/150 MHz	Up to 70/140 MHz	Up to 30 MHz
Horizontal Frequency	Up to 105 kHz	Up to 78 kHz	Up to 25 kHz
Inputs	Up to 4	Up to 4	Up to 4
Memory	4 Megapixels	2 MB	2 MB
Pixel Jitter	±0.5 ns	±0.5 ns	±0.5 ns
vBits per Pixel	8 or 10 bits	8 bits	8 bits
External Trigger	Yes	Yes	Yes
Software Platforms	Windows 95 Windows 98 Windows NT 4.0	Windows 95 Windows 98 Windows NT 4.0	Windows 95 Windows 98 Windows NT 4.0



Auto-SYNC

Highly accurate video capture is essential for any application that extracts measurements from a video image. While some video inputs are "standard," there are many others that deviate slightly or significantly from standard video parameters. This is especially true for high-resolution video signals and computer workstation video formats. These deviations may include:

- Video Amplitude (A)
- Sync Amplitude (B)
- Horizontal Blanking (C)
- Front porch/back porch (D/E)
- And much more!

The figure below shows a typical video signal and sources of variation:



Prior to Auto-SYNC, and with any other video capture board, non-standard video signals had to be analyzed manually with an oscilloscope to determine the appropriate video parameters. With Auto-SYNC and HI*DEF, the video signal is quickly analyzed and the board is automatically configured to acquire the highest quality images from the input device. This minimizes installation and setup, In addition, Auto-SYNC allows for fine-tuning of the video signal parameters as well as gain, reference, and offset adjustments to further optimize the image if desired. A logarithmic histogram, a pixel analysis tool, zoom/pan/scroll, and more are included.

An example program is provided that grabs single or continuous 8 or 10 bit images. Complete input video parameter adjustments are available as well as the capability to save images in BMP and TIF formats. For static RGB color inputs, users can capture single or continuous images.

For programmers, the HI*DEF Software Developer's Kit is available. Image-Pro Plus and HLImage++ drivers are available for users with high-level application software requirements.

About IMAGRAPH

IMAGRAPH is a world leader in the design and marketing of high accuracy, high performance imaging products for machine vision, medical imaging, and scientific imaging. Since 1985, OEMs, VARs, system integrators, and end users have relied on IMAGRAPH to provide technically advanced imaging hardware and software of the highest quality.

Contact us for more technical information.

reducing service calls and expenses. Further, HI*DEF can acquire from up to four video inputs, so each input channel can have a different image source, adding to the flexibility of HI*DEF.

[1] HI*DEF Accura

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Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

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Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

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