



Image Accel 3

Whether querying multiple databases to respond to customer inquiries, working on a large budgeting spreadsheet, conducting research over the Internet, or viewing scanned images in a production document imaging application, a high performance graphics controller plays a key role in maximizing the productivity of the business user.

Graphics Controllers for the Business User

In business organizations throughout the world, people are spending an increasing percentage of their day working on a computer. Today's fast paced, complex world has users handling multiple applications and multiple data types with increasing pressure to get more done in less time. Improved reading speed on an organized, productive computer desktop is critical to the success of all organizations.

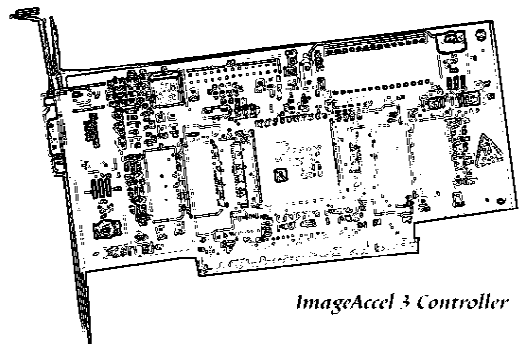
ImageAccel 3, Cornerstone's newest addition to our family of graphics controllers, is focused on improving the productivity of the business user: up to 1800 x 1440 resolution to display the finest details, 250 MHz bandwidth to deliver eye pleasing refresh rates, industry leading 2D/3D graphics acceleration capabilities, optimized ScaleToGray™ for unmatched sharpness and readability of scanned images,

JBIG decompression and display, SmartImage™ brightness and contrast controls, and Internet plug-in for image clarity on the net. All designed to improve the readability of text for a more comfortable, productive environment.

Beyond that, it's versatile. Use it for researching on the Internet, viewing videos, looking at scanned photos, playing 3D games, or any general business application.

It's flexible. Adjust the controls yourself with easy-to-master menus. Pan, zoom or change the color depth, resolution, brightness and contrast.

Best of all, ImageAccel 3 is designed specifically for the business user.

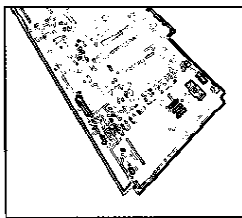


ImageAccel 3 Controller



Cornerstone

High Performance Graphics Accelerator



As a high performance graphics accelerator, ImageAccel 3 offers many of the best-of-breed capabilities users in visually demanding environments require. The high resolution, high refresh rate and superior image quality improve every display.

Premier Performance from DOS and Windows

With ImageAccel 3, you can easily operate many graphical interfaces from most operating systems. It actually improves the performance of virtually any application.

Easy to Use

The ImageAccel Control Center taskbar makes it easy to access all the ImageAccel 3 features. It's simple to install on a single workstation, or over the network.

On the Fly Resolution & Color Depth Switching

Select the right resolution and color depth to completely analyze your images. The options range widely from 256 colors at 1800 x 1440 resolution to 16.7M colors 800 x 600 resolution. Because it instantly updates the resolution and color depth, you don't have to reboot your system or restart Windows.

Superior Legibility of Scanned Documents

ImageAccel 3 is the only controller with the specialized capability for displaying scanned images. Its unique features include ScaleToGray enhancements, the capability to quickly decompress JBIG images, SmartImage brightness/contrast controls, and an Internet plug-in viewer.

Cornerstone's ScaleToGray produces an even more accurate representation of the original document — significantly improving the readability of scanned documents.

ScaleToGray

Paper documents are typically scanned at 200-300 dpi, then scaled for display at lower resolutions up to 120 dpi on very high quality color monitors. Standard scaling techniques simply throw away the extra pixel data before displaying the image, therefore diminishing readability.

Zooming with 'Hot Keys'

Many screens are difficult to read. For instance, small fonts, faxes, and handwritten documents are not as clear as desired. Use our 'Hot Keys' for quick zooming. There are four zoom levels to deliver the necessary magnification.

Display Wizard

The wizard adjusts the display timing to reposition images on the monitor. Move them left, right or center. ImageAccel 3 is so versatile, it works with a variety of monitors.

ImageAccel 3 also provides MPEG Video Playback for viewing training videos and 3D rendering for next generation business applications.

ScaleToGray is a complex scaling algorithm that improves the readability of scanned images. The process clarifies a scanned image by adding shades of gray to fill in the jagged edges of characters. The resulting image appears much sharper and clearer.

Cornerstone's ScaleToGray takes the technology one step further. ScaleToGray, embedded in ImageAccel 3 uses an intelligent algorithm which is proven to effectively double perceived resolution for the user, reducing eyestrain and increasing reading speed. Cornerstone's ScaleToGray produces an even more accurate representation of the original document significantly improving the readability of scanned documents.

ImageAccel 3 is the only graphics controller equipped with this advanced ScaleToGray capability. And, it's supported by over 70 applications, including those developed by FileNet, Eastman Software, Lotus, IBM, Optika, Pixel Translations, Kofax and many more.

JBIG for Increased Efficiency

ImageAccel 3 decompresses and displays both bitonal (black and white) and grayscale JBIG files. JBIG, a sophisticated algorithm for encoding both types of images, literally changes the way documents are stored and viewed.

Until now, virtually all images were scanned in simple bitonal format. While much too large to be practical before, JBIG's compression capabilities enable the use of grayscale scanned images. Grayscale images provide a much truer representation of many documents, especially ones containing shaded areas, light printing, multi-part forms, and handwriting. ImageAccel 3 allows businesses to expand the scope of their systems by quickly decompressing and displaying JBIG grayscale images.

JBIG can also deliver substantial costs savings. It reduces average file sizes of bitonal images by 20-60% over Group 4 compression. The smaller file ultimately reduces storage requirements and shortens the transfer of files. ImageAccel 3 decompresses and applies its ScaleToGray to JBIG bitonal images.

Brightness and Contrast Controls

SmartImage, exclusive to ImageAccel 3, improves the quality of each image on your display by automatically adjusting the brightness and contrast for you. Or, with a click of a button, you can change brightness and contrast yourself, while a document is displayed on the screen. These controls significantly improve the readability of information on the screen.

Clarity on the Internet

If you need to access information via the Internet, you'll appreciate what ImageAccel 3 adds to the view. Like many organizations, you may decide to add documents from affiliated business to your website. Or, you might need to scan resumes, manuals or competitive information for quick distribution across your own Intranet. An Internet plug-in furnishes all of ImageAccel 3 many features and benefits from ScaleToGray to JBIG decompression to Brightness/Contrast controls. It works with Internet Explorer 3.0 and Netscape Navigator 2.0 and later.

ImageAccel 3 Family of Graphics Controllers

The ImageAccel 3 PCI1702C/30 and the PCI1704C/30 Graphics Controllers optimize a 17" CRT monitor—with 1600x1200 resolution at 66 Hz or 1280x1024 at 76Hz. These controllers are recommended when color is required on standard monitors.

The ImageAccel 3 PCI2302C/32 and the PCI2304C/32 Graphics Controllers enhance 19 - 21" CRT monitors. They deliver 1600 x1200 resolution up to 85 Hz and are recommended for intensive viewing on large screen displays.

The ImageAccel 3 PCI2502C/33 and PCI2504C/33 Graphics Controllers match the most demanding 21" CRT monitors. They deliver up to 1800x1440 resolution at 71 Hz and 1600x1200 resolution up to 92 Hz. These controllers are recommended for maximizing the image quality on 115 kHz, large screen monitors.

Performance You Can Depend On

The MTBF (mean time between failures) is 350,000 hours, which means that on average you can expect 350,000 hours of uninterrupted service from your installation of Cornerstone controllers. At Cornerstone, we back ImageAccel 3 with a 5-year warranty. For additional peace of mind, Cornerstone offers ImageCare, a comprehensive extended service program, which guarantees next day, on-site replacement and installation.

Cornerstone Controller Specifications

	PCI1702C/30 PCI1704C/30	PCI2302C/32 PCI2304C/32	PCI2502C/33 PCI2504C/33
Bus Interface	PCI	PCI	PCI
RAMDAC Speed	170 MHz	230 MHz	250 MHz
Maximum Resolution and Refresh Rate	1600 x 1200 @ 66Hz 1280 x 1024 @ 76Hz	1600 x 1280 @ 76Hz 1600 x 1200 @ 85Hz	1800 x 1440 @ 71Hz 1600 x 1200 @ 92Hz
Imaging Assists	G4 decompression, JBIG decompression, ScaleToGray, Brightness & Contrast Adjustment, SmartImage, Internet Plug-in Viewer		
Bundled Software	Software MPEG player, Internet Explorer, PVDemo		
Video Memory	2 or 4 MB RAMBUS memory	2 or 4 MB RAMBUS memory	2 or 4 MB RAMBUS memory
Colors	up to 16.7M	up to 16.7M	up to 16.7M
Plug and Play	DDC 2B Compliant	DDC 2B Compliant	DDC 2B Compliant
Power Save	Nutek/Energy Star	Nutek/Energy Star	Nutek/Energy Star
Display Connector	High density 15-pin D-sub miniature	High density 15-pin D-sub miniature	High density 15-pin D-sub miniature
Operating Temperature	0-40 degrees C	0-40 degrees C	0-40 degrees C
Agency Approvals	FCC, TUV, CF Mark certified	FCC, TUV, CF Mark certified	FCC, TUV, CF Mark certified
Warranty	5 years	5 years	5 years

Software supported: Microsoft Windows 3.1x, Windows for Workgroups Version 3.11, Windows 95, Windows NT 3.51 and 4.0, IBM OS/2 2.11, 3.0, and 4.0, Warp 3.0 and Warp 4.0.

Making the Right Choice

Creating an increasingly productive and efficient workplace means providing users with the right technology. At Cornerstone, our comprehensive line of controllers offer the right solution for any demanding application. Every ImageAccel 3 controller delivers unequalled performance and functionality. Teamed with our high quality Cornerstone displays, you have the best sub-system on the market.

To learn more about choosing the right controller for your viewing needs, we invite you to call a Cornerstone Consultant or visit our website.



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