HyperSnap-DX 4.5™

Printable Documentation

Release 4.x

Printable Documentation Version 4.3

Table of Contents

This document is the printable version of HyperSnap-DX 4's on-line help. Many users have requested we make available a printed copy of the docs, so we've converted the help to this Acrobat file. Users can then print the program's documentation using the widely-available Acrobat viewer. It will contain references to itself as a "help file" but this is a byproduct of the use of the same document for both purposes. So please just consider this as a "help file," when you run across such references.

All users will want to look at the section called, "What's new in version 4?"

Getting started with HyperSnap-DX 4

First, if you're new to HyperSnap-DX 4, we'd like to thank you for taking a look at it. HyperSnap-DX 4 now has an industry-standard installation program, which should have created several icons in your system's **Start menu**. These should include an icon to launch the program, and an icon to launch this file (the program's main help file).

> **Note:** There's context-sensitive help available from within the program, simply press F1 while the mouse is active over any highlighted menu item, or while any important dialog is open, and a small help window will appear that explains the feature (or features) of that menu item (or function). Some dialogs have even more detailed help you can access using a special **'?'** button that you can find in the upper right-hand corner of dialog boxes that support the feature. Click that ? button, and then click on the item you'd like to read about. A brief help topic should appear telling you what the control, button, or drop-down list is and what it does. It might even be linked to more detailed help within this file.

From the beginning HyperSnap-DX 4 was designed to be both powerful and easy-to-use. If you're reading this file, you've probably had a successful installation. If (for some reason) you've installed the program but it will not load, or it doesn't operate correctly, please see the help section **User support**. It contains instructions on reporting problems and how to do that.

We've tested the program very carefully, so we're confident that it will operate as expected, but as with all powerful software it's possible some combination of issues may cause a "bug" to rear its head. In such a case please do contact us.

But before you do, try re-starting Windows and don't load any other programs (especially utilities that "track" your system's configuration, or virus scanners, they can sometimes cause problems with installation programs).

From that clean boot re-run the installation, and then try the program again. In some cases, a file we need to update may be in use by the system, and if it's already loaded, the program's setup won't be able to correctly replace it, possibly causing problems.

Our goal is 100% defect free software as well as the best user support we can manage to provide with our resources.

Users new to the program should read through the tutorials, both the **Quick tutorial** and the **Advanced tutorials** that cover the more powerful features such as multi-region capture. A good read through those sections will give most folks the basic knowledge they need to use the program.

And as with most software, simply "playing" with it is the best way to learn what's there. We'd like to encourage you to explore HyperSnap-DX 4's menus and functions, and "fiddle" with some images you may already have on your system. That's the fastest way to get a solid grasp on both how powerful, well thought-out, and easy-to-use the program is.

Please feel free to browse through this file by using the > and < buttons (which will take you forward and backward through the file). A good "grazing" of the docs is a terrific way to familiarize yourself with a new tool.

Just like the program, we designed this file to be both powerful and easy-to-use, with lots of keywords to help you find the things you need, as well as a floating help window called the Navigator that keeps the

entire table of contents open and ready, letting you control the contents of this window without having to repeatedly open the standard Windows help table of contents tabs.

A quick tutorial

HyperSnap-DX 4 offers four types of captures, listed in the table below:

Full capture:	Grabs the entire screen, edge to edge.
Window capture:	Captures the exact window you specify (either with or without a window border).
Region capture:	Captures a rectilinear region (or multiple regions) which you can define with a "rubber band" bounding box during the capturing process. New to this release is the ability to capture multiple regions, and with the space between them filled by a background color of your choice.
DirectX or Glide capture:	Captures those hard-to-retrieve screens from 3D accelerated hardware image buffers. This function allows you to grab screens from games or 3D development software that---previously---have been *impossible* to get with other capture tools.

Note: Of course, *no matter what type of capture you make*, you can use HyperSnap-DX 4's post-capture tools to edit, crop, and otherwise alter your image so that it best fits your intended usage.

A capture session walk-through

Here are the steps of a typical capture session. Follow the steps, and be sure to carefully read the procedures.

In order to view HyperSnap-DX 4 and your capture's image after you've done it, make sure that the **Restore After Capture** option under the Capture menu, Capture settings tabs, **Capture tab** is checked. If it isn't checked, HyperSnap-DX 4 will be minimized (visible only on the task bar) and you'll have to click on it to open it up again.

Let's try capturing a program's window. You can capture this help file's window as your example. But first, make sure HyperSnap-DX 4 is running, then come back to this file.

Note: When you're in window capture mode, you'll note that as you move the mouse, blinking frame will appear around the window from which the image will be captured. This is your guide as to what the final product will contain. You'll move the mouse to select the window you wish to capture, and left-click to capture it. To abort it, you'll right-click the window. If, as you move about choosing windows to capture, you notice that the process only selects a "sub-window" within an application, try clicking on the application's title bar, it should force a capture of every "connected" part of that application.

Please read through all of the next steps so that you can use them without referring back to this help file.

When you're ready to begin, make sure that HyperSnap-DX 4 is the top-most window. The help engine window you were just reading (this one) should be directly beneath it. Whatever window or area you want to capture should always be visible so you can click on it.

Next select **Window, button, or control...** from HyperSnap-DX 4's **Capture** menu. HyperSnap-DX 4 will move out of your way, to the taskbar.

Move the mouse cursor to different sections of the desktop, including over your help file window. As you move it, notice that the blinking highlighted areas change. If you move to an application's Title Bar, that entire application's window is highlighted---take your time and examine the available capture objects you can locate on your desktop.

Once you've highlighted an area you want to continue to experiment with, click your left (sometimes called "primary") mouse button.

> **Note:** You can use hot keys to initiate your captures. We'll talk about that at the end of this tutorial.

After HyperSnap-DX 4 takes the screen shot its program window, now including your capture, is restored to the active window position. You can change HyperSnap-DX 4's window size just like any other program if you want to see more of the capture (it may be partially obscured even with HyperSnap-DX 4 is full screen, depending on what you captured).

At this point, if you were satisfied with the capture, you could save it or do other things with it. But for our tutorial, let's try the handy crop feature first (found within the **Image Menu**). Cropping lets you edit your capture further by selecting an area within it to keep, while discarding the rest. Like before, read all these bulleted steps before you proceed with the capture so you can follow them without referring to this file:

The first thing you'll do is click on **Crop** from the Image menu. Your cursor will again turn into a little plus sign (+); notice how the coordinates of your position are displayed in the HyperSnap-DX 4's status bar?

Move the cursor to the location that you will want as a corner of the section of the capture that you want to save and left-click it. That will anchor one corner of the area you will crop from the capture.

Move the mouse around take notice of what you can do (without clicking any mouse buttons). Note that the size of the crop area is displayed in HyperSnap-DX 4's status bar (lower left-hand corner of the program's interface).

Pressing the F1 key will show you a small zoomed window that will allow you to perform more precise cropping. You can also use the Arrow keys on the keyboard to move the mouse pointer with one-pixel precision. Pressing F1 key again will show you the other options at your fingertips.

Move your cursor to enclose the area that you want to keep and click your left mouse button. The capture is cropped per your specified size and proportions.

> **Note:** Remember: if the HyperSnap-DX 4 window doesn't show all of the necessary parts of the image, you can resize the window or scroll to the appropriate area. Oh, and if you don't like what you've just done (or clicked on the mouse accidentally while experimenting), if you choose Undo from the **Edit menu**, it will undo the action and restore your original capture. Be sure to do that before you perform any other actions on the image, though.

> **Note:** Oh, and about **Region captures...** the Region Capture action, when you select it, works very similarly except it affects the whole screen by allowing you to choose (in a way, crop) out part of your entire desktop and paste it into a capture.

Now it's time to save your capture. As before, read each of these steps before you proceed with the capture, so you can follow them without referring to this file.

First, click on the **Save As** selection under the **File** menu to get a familiar-looking dialog which you've probably seen appear within your other software applications.

The Save as type window displays *Windows Bitmap* by default. We'll use that one. However you can choose from any of the other file types, some of which will give you further sub-format choices and options (such as compression and so forth).

> **Note:** Other choices such as **Bits per pixel** let you specify the color depth, and additional options are activated when you choose other file types. What you see next depends on the choices you make in the Save as dialog box. You may want to take a moment to choose some of the other file formats from the Save As dialog box type selector drop down, and examine how the options available for each file type alter as you choose a different format for the saved file.

Once you've chosen the file data type and applicable options, give the file a valid file name and navigate to the folder in which you want to save it. Once you've found the location in which to save this file, click OK. You've just saved your capture, which you can now open in other programs (such as Corel PhotoPaint, or Windows Paint, and so on). Don't worry about providing a file extension (the part of the file name after the period). HyperSnap-DX 4 will provide the extension for you based on the type of file you've chosen from the file type selector drop down list.

> **Note:** You can copy your capture to the Windows Clipboard automatically if you like by enabling the Capture settings tabs, **Copy & print tab** item Copy each capture to the clipboard. This makes sharing your captures with other programs painless.

You've completed this basic tutorial, but HyperSnap-DX 4 has several more ways of operating and plenty of features you'll want to learn about. Be sure to browse through this document, as well as read the next file section, which has several advanced tutorials.

Advanced tutorials

This section contains several tutorials that illustrate some of the more complex features in this release (such as multi-region capturing). Covered here is one of the program's most powerful features, capturing from DirectX or 3dfx Glide screens.

Follow the steps for each outlined capture procedure.

Multi-region capture

You can use this powerful function for capturing a cascading menu, a useful tool when creating documentation for software. Here are the steps. Note that if you've changed the HyperSnap-DX 4 hot keys, you'll have to substitute yours for the default keys given here (and in all examples).

Minimize the HS-DX 4 window to the task bar

Open a cascading (that means multi-level) menu in another program. For this example we'll use any Windows explorer folder. Double-click the My Computer icon and then open any available hard disk drive, and then any folder that shows some file icons you can use for this purpose.

Right-click on any convenient file's icon.

Choose File/Send to in order to get the menu open.

Press HyperSnap-DX 4's **Ctrl+Shift+M** hot key combination to start multi-region capture.

Click on each menu in turn, plus the main menu toolbar (the one that shows File, Edit...)

Just to demonstrate the power of this feature, we'll add another step: while you're still in Mutli-region capture mode switch into Region mode.

Now press and hold the right mouse button, select **Region** and draw a capture box around the pop-up menu as well as outline something else on the screen to capture that, too (for example, a data file's icon).

Press the **Enter** key on the keyboard to finish this capture.

Full screen DirectX or Glide capture

Another powerful feature of HyperSnap-DX 4, folks like game reviewers (or even people who just want to show off how good they are at a game) can capture a series of images from an ongoing full-screen game, and they can do so without leaving their game to assign filenames for each file created when you capture a screen. Here's a walkthrough.

First open up HyperSnap-DX 4's Capture settings tabs and then click on the **Quick save** tab. You'll be establishing some settings here before you begin your captures.

Check **Automatically save each capture to a file**.

Then, if you don't want the default filename, click the button labeled Change next to the default filename box. Locate a folder where you want your captures stored, and in the filename box, type in the beginning name you want to use. For our example, we'll use TEST.

Close the Save as box, which will replace the name in the Default name box.

Click the box labeled Increment file name, and in the box next to it, marked Start at, enter 1. In the "stop at" box, choose any number you want. In our example we'll pick 100. That will allow you to capture up to 100 screen images without overwriting the files.

Note: To illustrate this, if you set a start and stop at 1& 100, you'll get files named Test001.bmp through TEST100.bmp. The total number of 'counter' digits in the file name is set by the number of digits in the 'stop at' box. So to get a series starting with TEST01.bmp, use 2 digits, for example "99," as your stop number.

Examine the other values on the **Capture settings tabs** to make sure they are at the values you desire. (If you've not changed them from the defaults, they'll probably be fine).

Close the Capture settings tabs.

Re-open the **Capture** menu, and click on **Enable special capture...**

Here you need to choose what type of capture you wish to make. If your game uses Glide (for example, 3dfx hardware) then you should choose 3dfx. If you're not sure, just check all three, if all three are available, or just the top two if the bottom is disabled. HyperSnap-DX 4 will take care of the rest.

Important! Note that if you do not have detectable drivers installed for the hardware in the list, that option will be disabled.

Note: Advanced users should read the following note: The choices to enable/disable them separately are only for extremely advanced usage and for those "special, difficult-to-handle situation." For example, a game uses both the DirectX and the Glide interface. In these cases, sometimes DirectX is only used by the game for displaying the "score" and intro screens. It might use Glide for the actual game action. In these situations it's often not possible to snap the "score" or "intro" screen, unless you disable 3dfx Glide captures. But this doesn't happen often.

In our example, we'll capture a screen from a Directx/Direct3D game, for example Microsoft's *Motocross Madness(tm)*. In this case, you'd check the box marked DirectX/Direct3D primary surface.

Important! Note the message that appears when you check the topmost button on the Enable special capture dialog: Please use [hot key] as the hot key... You must use as the capture hot key the combination or the other keys specified here. You can't use the "standard" HyperSnap-DX 4 hot key.

If you wish to enable post capture processing of the image, check the box labeled **Enable post processing...** For more on what this does, see the **DirectX, Direct3D and Glide capture dialog** section of this file. For now we can leave this unchecked. Examine this section for explanations on the other options available for these special captures, too.

Click **OK** to enable special capture.

Minimize HyperSnap-DX 4 (although you don't have to, actually, since the game will run full screen).

Run the desired game. Get to the point in game play that you wish to begin capturing.

Press the specified hot key at the moment you want to capture.

The file will be saved in the directory you specified, using the naming scheme you determined. You can make more captures via the same procedure.

Exit the game when you're through, and examine the captured files---which you can do by simply pressing **Page down** and **Page up**. You may wish to make some adjustments to certain features to improve the appearance of the captures. See the next help topic for details on how to improve dark Glide or Direct3D captures, and other technical issues covering special captures.

DVD player capture

If you want to grab an image from a movie (for example, to use as wallpaper) this feature can do it for you. It works essentially like the feature for capturing DirectX games.

The video capture will work or not, depending on which video player software you're are using, and if it uses DirectX or not.

Enable "Special Capture" in HyperSnap-DX 4's **Capture menu** or as described in the DirectX tutorial, above.

Click on that item and make sure that DirectX Primary and Overlay surfaces are turned on. Then click on OK button.

Run the DVD software, pause the movie where you want to capture, click on DVD player to make sure it is the front window, then press Scroll Lock key. (That's the default HyperSnap-DX 4 Special capture hot key. If you've changed the hot keys, use the keystroke you've set for this function instead.)

Click on the HyperSnap-DX window and see what was captured. If you don't see the picture there, most probably your DVD player software doesn't use DirectX.

Note: Try to download the *PowerDVD*(tm) program from the Internet and use it instead when you need to snap pictures from movies.

If you do see a picture in HyperSnap-DX 4 window, but it has incorrect proportions, or maybe is repeated several times, please use the Crop & Scale tab functions under the Capture settings tabs. These tools will let you auto-crop each image you capture (so that only one image remains) and it'll scale it to the correct proportions, too.

If the above process *still* doesn't work (for example, you still get a full screen capture with some solid color where the DVD was, your DVD player program does not use DirectX. Because of that, HyperSnap-DX 4 won't be able to capture images from it. Our best suggestions is to tell you to locate (and then license) a different DVD player software. You need one based on DirectX, such as *PowerDVD*, *SoftDVD* or some other DirectX-enabled product.

Important! Sometimes you may see a message within the HyperSnap-DX window that complains about an **Unsupported Pixel Format**. This means that the program doesn't know how to decode the picture from the DirectX overlay buffer. If this happens, check the settings and options in your DVD player, and see if you can find a setting that *disables* a function that's often called, **Hardware Acceleration** or sometimes **Optimized Video**, or something very similar to that. Then re-try your capture, it should now work.

(Be sure to restore this setting again after finished with captures, it usually insures smoother playback during regular "non-capture" playback.)

If your DVD player doesn't have such a setting, just as in the other problems above, try another DVD player program such as *PowerDVD*™ from *Cyberlink*. PowerDVD does have this setting, which can be turned off and on, and several of HyperSnap-DX 4 users have confirmed that they're able to reliably capture images from DVDs after *disabling PowerDVD's* Hardware Acceleration feature.

Important! We don't warranty that you will like *PowerDVD*, nor do we have an arrangement with them whereby we suggest that our users go and buy it and they give us "kickbacks." We mention it only because some of our users have freely mentioned to us that they've been able to successfully capture from it, and many have not been able to capture from other DVD players. We've looked at *PowerDVD*, it does a great job overall, and has many terrific options, and produces high image quality and solid frame rate performance given good-enough hardware. But if you download it because of our suggestion and then have problems, please remember this disclaimer: *we do not warranty it in any way, shape, or fashion.* If you have problems contact the vendor, *Cyberlink,* not us. Thanks.

DirectX, Direct3D and Glide capture dialog

This dialog offers a number of important options that can improve the quality of captured game screens. Several of them are, from a purely technical standpoint, too complex to cover in detail here. Because of this (it would involve pages of text and complex references to bit planes and methods of interpolating data and encoding color formats and how pictures are drawn and picture palettes are defined in 3D games) we've decided to simplify how we explain these functions.

We'll cover just the bare bones of these features, enough so that you should know *what* they do, rather than "how they do it."

The features of the dialog relate only to DirectX, Direct3D, and Glide (generated by 3dfx hardware) screens. If you see your screen captures from such sources appearing in a way that's now how you want them to appear, the options below used as directed may correct it.

Getting data from these high-speed buffers---and making that data look the way you want it to frozen into a single image rather than a dynamic animation that takes advantages of quirks in human perception like persistence of vision---is a complex task requiring some difficult finessing of the video hardware and the data itself.

DirectX, Direct3D and Glide capture options

You can choose which type of hardware from which you wish to capture a screen. Of course make sure it's the same as that which your game or other software is using to *generate* its screens.

DirectX/Direct3D Primary Surface - check this to capture from Microsoft's DirectX and Direct3D technology. Games like *Motocross Madness*, as well as many others use the primary surface to display content. These are not overlaid across the main desktop such as DVD players, which are covered below. Anything full screen is usually a primary surface, for the most part.

DirectX Overlay (for example, DVD or Video) - check this to capture an overlaid screen, such as that you would see inside the region of a DVD player application. This is different from the primary surface type of capture. This data is overlaid on "top" of existing screen information and during a "regular" capture may not appear at all (the captured region may appear distorted, black, or missing data).

There are some **Advanced Overlay control** options you can set for this function, too. If you click this button, you'll see several options for attempting to define the data format used by the various applications that generate such screen content. If you have problems capturing a certain application's screens, try successive captures one-by-one by toggling through the list of possible formats listed here.

We're virtually certain that one of them will allow you to get the capture you need. If your capture's appearance is distorted or has other corruption issues, the screen data format selector here is probably the first function to change to correct the problem.

HyperSnap-DX 4 will attempt to **Auto detect** (the default setting) the data type used by applications using DirectX overlays, but it may fail at this. Some applications actually "lie" when they declare their file format. Why they do this, we're not sure, we've just discovered that some do!

> **Important!** Note that the hot key for full screen game and DVD screens is most likely going to be "forced" to the Windows standard **Print screen**. Other keys may be blocked by full screen applications, or controlled by them. When you select the type of capture you're doing, the DirectX

capture dialog will tell you which hot key to use during game play below the check box that enables it. Be sure to read that before you jump into the game, so you know which key to hit to fire off the capture!**3dfx Glide** - check this to capture screens from Voodoo, Voodoo Rush, and other various 3dfx chipset-enabled software.

HyperSnap-DX 4 has some post-capture processing tools that may improve some captures should they not appear as desired. To enable automatic post processing of these captures, check this box and then select the type of processing you wish to have applied. These are performed based on the type of capture you're making, and are designed to improve the appearance of captures from these various hardware types based on our knowledge of "typical defects" gotten from their images.

You must first select the type of graphics controller you have installed.

None, unknown, or other than listed below - defines a "generic" post processing environment.

1x4 filter for 3dfx Voodoo 1, Voodoo Rush, or other Voodoo 1 based cards - optimizes processing based on the characteristics of the images generated by these boards.

2x2 filter for 3dfx Voodoo 2, Voodoo Banshee, and Voodoo 3 based cards - optimizes the post processing based on the characteristics of the images generated by these boards.

Gamma correction Factor [value] - this function works just like the Gamma processing on the **Color menu** except it's applied post-processing. It's common to see very dark screens from 3D hardware, and you can save a bit of time by having these screens automatically brightened up a bit right after capture. You can quickly set the value for this back to the default by clicking the button to the right of the value entry box.

Note: Perform a capture first with all values set at the default in order to get a reference capture. Then change the settings here, that way you will best be able to see how "fine or coarse" the adjustments actually are to the captures.

What's new in version 4?

If you're a previous user of HyperSnap-DX, you're probably most interested in what's new in version 4. Here's a quick rundown of the features new to this release. If you've never used the program at all before, you'll want to read both of the topics below, what's new and the Feature overview. If you want to see a complete list of all changes for the entire 4.x release history, visit our *Release History* web page at http://www.hyperionics.com/hsdx/changelog.html

- Integrated bitmap editor with multi-level undo/redo, to add changes, comments, annotations to your images
- Region Capture - you can capture not only rectangular regions, but you can select a "rounded rectangle" (with 3 different round sizes, small, medium and large), and an ellipse or circle. Just press the **S** key on the keyboard to toggle the shape, or right-click the mouse to select it from the menu.
- New capture function: Multi-Region Capture. You can select either multiple windows (like in Window capture mode) or draw regions (like in Region capture mode) and move/pan them. The space in between selected regions will be filled with selected background color. It uses white by default. This works well when capturing cascading menus. Simply open as many menu levels as you need, press **Ctrl+Shift+M** to activate Multi-Region capture. Click on each menu to select it, then complete the capture. This is now much easier than previous releases
- New Quick Paste feature. Using the **Capture** / **Capture Settings tabs**, select "Copy & Print" tab, and enable **Copy each capture to clipboard** (like Quick Copy in the previous releases of HS-DX). Start the program where you'd like to paste your pictures, (for example a Word document). **Enable the Paste each capture to:** function, and then select your program's window from the drop down list (you will see it's title text listed there).
  You may enable **Minimize this window before the capture**, if you want. Click **OK**, minimize HyperSnap-DX 4's window to the task bar. Now in your chosen application window, click where you'd like the picture to appear, and start the HS-DX capture by pressing the hot key combination like **Ctrl+Shift+R**.
  When you finish the capture, your application window will come to the front and the screen capture will automatically appear in its window.
- Images can now be displayed at any zoom level, not just 100% (original size) as in previous releases. This function is accessible via the magnifying glass tool on the toolbar.
- Capture functions - a menu will pop-up when you press the right mouse button during Region or Windows capture. It has the options to Abort, Finish Capture, and has several other special options such as the ability to change mode.
- Print Preview added to the program's **File** menu.
- Printing of large bitmaps will span multiple pages if necessary, not only downwards, but now even across laterally.
- By default, HS-DX makes a "camera shutter" sound when capturing the screen. You can disable this under the **Capture Settings** menu if you don't like it.
- New function added on the File menu: **Set as Wallpaper.** It should be obvious what it does...

- Many more image processing and color conversion functions added under the Image menu. These include Shear, Auto Trim, Mosaic, and Emboss.
- More color processing functions added under the Color menu. These include Brightness, Contrast, Hue, Saturation, Count Unique Colors, and so forth.

Feature overview

HyperSnap-DX brings professional quality and convenient Windows 9x, 2000 and NT screen captures to your fingertips. It was designed for ease of use, with powerful and useful features to aid the professional as well as support the needs of the occasional user. Use it just a few times and you'll find it to be indispensable.

This section of the documentation is meant to give you a quick overview. For detailed explanations of HyperSnap-DX's features, please examine the help for the feature that most interests you.

Save your image as a BMP, GIF or JPEG file. GIFs can optionally be interlaced and include transparent backgrounds, and HyperSnap-DX can create progressive JPEGs, perfect for World Wide Web page use. Choose your color depth for BMP captures, too.

This version supports TIFF, LEAD (CMP), CALS, CCITT Fax (FAX), Encapsulated Postscript (EPS), GEM Image (IMG), IBM IOCA (RAW), Macintosh Picture (PIC, PICT), MacPaint (MAC), Microsoft Paint (MSP), OS/2 Bitmap (BMP), SUN Raster (RAS), Targa (TGA), WinFax (WFX), Windows Metafile (WFM), WordPerfect (WPG), Portable Graphics PNG, and Adobe PSD, many with optional sub-formats and variations, to the file formats that you can open and save. Use HyperSnap-DX for file format conversions and editing.

Capture in DirectX or 3dfx GLIDE Applications! Now you can make those special game and other captures you could never do before.

Capture images from multiple monitors at once, when used on multi-monitor setups under Windows 98 or 2000.

Resize captures or image files using the powerful image manipulation tools in HyperSnap-DX.

Edit and annotate images directly in in HyperSnap-DX.

Change the color depth of your image to 2, 16, 256, or 16 million colors, with eight dithering choices, or grayscale or halftone images.

Include the cursor image in your image to better display your product's features.

Use the built-in Crop feature to remove rectangular sections from within an image, or use conventional cropping for making final edits to your capture without transferring it to another program. And thankfully, there's an Undo feature to mitigate the "oops!" factor.

Capture an image of an entire web page, file listing, or other scrolling windows by using HyperSnap-DX 4's unique Auto Scroll Window capture option.

The flexible and labor-saving Window capture option captures whole windows and smaller sections of windows, highlighting the boundaries of each of your options, to make a quick and accurate capture without eyestrain and further editing.

Minimize HyperSnap-DX to a system tray icon, ready for action with a convenient right-click capture menu.

Choose your own hot keys that quickly capture the entire Desktop, any Rectangle you outline, or the highlighted Window or Client, and automatically repeat the capture every x seconds or by using another hot key.

Automatically save each of your captures to a file. You can even set the application to trigger new captures over a user-defined period, and HyperSnap-DX 4 will increment the file names for you during the process.

Print your capture directly from HyperSnap-DX -- it will expand the image to the size of the paper and margins that you set, print multiple pages, and even add a frame, reverse, or reduce the output to black and white!

Drag and Drop graphics files on HyperSnap-DX to open them!

File menu help

New - creates a new document.

Open - opens an existing document.

> **Note:** Notice that you can specify not only types of files to look for (filtering out other types) but you can specify how many pages to open within the program's workspace. In addition, there's a preview pane on the file open dialog that will give you a look at the image (perhaps greatly reduced, depending on its original size). This lets you use the Open dialog to navigate through large folders of files, choosing the one you are looking for, even though you might not know its name.

Close - closes an opened document. If you've changed it but not saved it, you'll be asked if you wish to save your changes. If you've made a capture, but not altered it, the capture will be discarded silently with no request for you to save it.

Save As - saves an image to a specified file name. You're presented with several options here that vary based on the file type you select. These include the color bit depth, whether or not the file is to support transparency, and so forth. You can set the defaults for this box by defining each and then clicking on the "Save settings" box. That can save time later, when you may be doing heavy, repetitive work with many captures.

If you check the transparent box, the color currently defined as the background color will be set to transparent. Only certain file types support this special property.

> **Important!** HyperSnap-DX 4 cannot append to a file format that does not support this feature. Append is supported by GIF or TIFF formats.

If a feature (such as Progressive or Interlaced) is not supported by a format, that feature will be grayed-out and not available for selection. Experiment with the various settings using an image with which you are familiar and you'll get the best feeling for what each setting accomplishes and how it changes the final output.

> **Important!** The label for the Progressive or Interlaced function changes depending on which file type you're saving. If you choose JPG, the label changes to Progressive (a feature JPG supports). If you're saving to GIF, the label changes to Interlaced (supported by GIF).
>
> **Note:** For example, a quality setting of 50% for JPG images is probably fine to e-mail a picture of your Airedale "Sparky" to a friend, but for something you'll be printing, you'll usually want the maximum quality available, such as 90% or even 100%. In general, you leave this setting at **Keep Current,** it will not attempt to alter the image's bit depth.
>
> If you are choosing to save to GIF, which doesn't support color depths over 8 bits per pixel, HyperSnap-DX 4 will do the best it can to match a higher-depth image when it decreases the available colors downward.
>
> If you check the option **Select best,** it will try to reduce the file to as small as size as possible without removing any colors that are in use. So if size is not an issue, **Keep Current** is probably the desired setting. If you're attempting to reduce the image's size to as small as possible but maintain quality, choose **Select best**.

Acquire - connects to a compatible scanner or other image acquisition device and retrieves an image from the device. You must have a Twain-compatible image acquisition source for this to be available. This menu item will load the software used by your device, and the resultant scan (or image download, for example from a digital camera) will appear in HyperSnap-DX 4's application workspace.

Acquire Multiple Images - this function connects to a compatible scanner or other image acquisition device and retrieves *multiple images* from the specified device. You must have a Twain-compatible image acquisition source for this function to be available. You should enable Quick Save on Capture *Settings tab* to save the extra images. When the operation is finished, the HyperSnap-DX 4 window will only show the last acquired image. See also *More on Acquiring Multiple Images*

Select source - this item lets you choose from available compatible scanning or image generation sources connected to your system. When you select **Acquire**, above, that controls the acquisition of images of the device chosen here. If you only have one device, this function will only offer one selection. If you have multiple image scanning devices, you can change the "active" device used by HyperSnap-DX 4 by choosing it here.

> **Important!** Some scanners come with their own scanning software (in addition to their own drivers), and some software (like CorelDraw) will install scanning software "on top of" the scanner's drivers. How well these packages work with HyperSnap-DX 4 may vary depending on several factors. In general, the scanning package that came with the scanner (or its latest update) will probably work the best. If you encounter problems, and see multiple choices in the list for Select source, but only have one scanner or imaging device, try to pick the one that was shipped by the scanner maker.

Print - prints a document to your active printer. The printout will use the page setup options that you define in the Page setup dialog, discussed below.

Print Preview - displays the document on the screen as it would appear when printed, including proper proportioning, headers and footers, and other page-layout features.

Page Setup - selects page printing options. HyperSnap-DX 4 has extremely powerful page setup options. These include the standard items such as determining the paper size you want to use (make sure the printer is loaded with the same paper as you specify here) and advanced items such as reversing the black and white content during the printing process.

Examine the options available on the dialog. The window that will appear contains fairly detailed explanations regarding page setup, headers and footers, and other related items.

> **Note:** This menu item (and button) is where you select the printer you wish the program to use, if you have more than one.

Send by E-mail... - you can tell Windows to send the current image (which you'll be asked to save if you have not) to another party via E-mail. Obviously you must *have* E-mail for this to work.

During this process, a dialog will appear that lets you choose the file name to use, the file format to use, and other options. The functions here are similar to those you use during file saving operations, and should already be familiar to you. To speed transmission of E-mailed images, you might want to send highly-compressible image formats such as JPG, which can be very small but still look quite good. Formats such as BMP are often large, and if you have a slow E-mail connection, may take a long time to transmit.

Important! Note that certain E-mail settings must be established for this function to work, mainly relating to internal MAPI functions. If this menu item fails, your system may not have the correct E-mail components installed. Sometimes installing *Outlook Express* (which comes with most Windows versions) will repair this common error. Users of other E-mail products should check their settings and see if they are MAPI-compliant if they get an error message when attempting this.

Set as wallpaper - you can choose to set the current image as your Windows wallpaper. Before you can set an image as your system wallpaper, you must save it as a Windows bitmap.

During this process, you can specify (if you want) the file name to use, or you can browse to choose an existing file name and overwrite that. From the **Set as wallpaper** dialog you can set several properties for your system wallpaper, such as how it will be displayed.

Choose between **Center** (which displays it smack in the middle of your desktop), or **Tile** (which multiplies it as many times across and down as required to cover the desktop), or **Stretch** (which elongates the image across both vertical and horizontal dimensions to make it cover the desktop).

If you want to remove the selected wallpaper, you can click the **Remove wallpaper** button.

Exit - exits HyperSnap-DX 4. You'll be prompted to save a changed image if you have not already done so. Any changes you've made to background color, foreground color, highlight color, and other tool settings are saved automatically when you exit.

More about page setup

HyperSnap-DX 4's page setup contains quite a few advanced features. Here's an explanation of each, in the approximate order that it appears in the dialog.

On the top of the properties page is a preview of how your settings will look. This changes in real-time as you modify the properties on the sheet.

Paper size - this controls the selections of paper the program will use to format the document as it prints it. This must match what's actually in your printer or what you print will not come out as you desire. Drop down the list to examine the available sizes.

Paper source - this controls from which tray (for printers with multiple trays) that the program will select paper. Very handy if you want to do "test" printouts using plain paper in a lower tray, and "final" printouts in clay-covered paper in a top tray.

Orientation settings - select either **Portrait** (the "standard" way you print most things such as a letter, **Landscape** (like a spreadsheet), or **Best Fit**. With Best Fit, the program examines the proportions of the image and automatically determines which would best work with your document, trying to maximize the appearance of the image in respect to the aspect ratio of the page.

Header and footer... - click this button to define header and footer text to use on the pages. On the following property sheet that appears you can define the text and position of the headers and footers, all of which is fairly self-explanatory.

Margins - define the margins that you wish to use. Note that you cannot define a margin beyond those supported by your printer. Consult your printer's documentation for the exact numbers here.

> **Note:** You can define margins wider than your printer supports (that is, farther *in* on the page) but you cannot define margins that attempt to print content farther out towards the edge of the page than the printer supports. Typically inkjet printers need at least a half inch, and lasers can sometimes print within one eighth of an inch, sometimes all the way to the edge. Due to paper handling, some printers need a larger margin at the bottom of the page than at the top. If you print in landscape mode this means that your right margin will need to be bigger than your left which can affect the visual centering of your image

Center image - check this to have the program place your image directly in the center of the page. If you're not going to trim off the white space around the image, this is probably a good idea to check (it will make the image appear more nicely formatted on the page, in genera).

Colors - here you can control certain functions such as Inverting black and white (just like what it sounds), Black and white only (converting the image from color or grayscale to black and white, which allows you to print color images to printer drivers that do not support them, such as dot-matrix printers), and Draw frame, which puts a border around the image. That's handy if the image contains white area that might cause it to blend in with the page's background.

Printer - using this button, select the printer you wish to use. This choice will change how the printed image is handled. For example if the default printer is a grayscale laser and you select a printer with color capabilities, then you might wish to make sure you have not converted the image to black and white.**Scaling** - choose from either **Auto-fit** to fill the page, maximizing the image on the paper, or

Scaling, where you can select values from 100% to 1%. If you check **Auto-fit** and the image is too large, the program will downwardly scale your image until it best fits on the selected page size. This choice makes the size of the image relative to the size of the paper selected, too.

You can click **OK** or **Cancel**, either setting your changes as the defaults, or discarding them.

More on acquire multiple images

The **Acquire Multiple Images** function on the File menu connects to a compatible scanner or other image acquisition device and retrieves multiple images from the device. You must have a Twain-compatible image acquisition source for this function to be available. You should enable Quick Save on the *Capture Settings tab* to save the extra images. When the operation is finished, the HyperSnap-DX 4 window will show *only the last acquired image*.

To enable Quick Save please select Capture Settings from the Capture menu and click the Quick Save tab. Enable both **Automatically save each capture to file** and **Increment file name** options. When the acquisition is finished, your images will be saved in numbered files and you may review them by simply pressing the Page Up and Page Down keys on your keyboard, or by opening the files normally.

You may also use other settings to collect multiple images. For example, you may enable the **Automatically print each capture** option on the Copy & Print tab located on the Capture Settings tab group, or you can set HyperSnap-DX 4 to automatically paste each captured image into MS Word or any other third party program you desire.

Another interesting setting that may be used with **Acquire...** is automatic tiling of images. This is available on the View & Edit tab of the Capture Settings tab group. For example, if you need to scan and fax to someone a few selected paragraphs of text, or some small images collected from several pages, select the following options on the View & Edit tab to automatically place all of them on one image (which will be only one page you can fax later):

Enable: **Paste each new capture onto the current image, Extend drawing space**, and **Tile vertically**.

Also you'll want to set a value for **When tiling, insert a margin of X pixels.** Set this to any pixel margin you prefer.

Edit menu help

Undo - reverses previous editing operation. You can do this repeatedly, within the limits of the program's Undo buffer. This "un-does" the last operation you performed, and then will reverse previous operations *in the reverse order that they were performed,* and only If you've performed more than one change to the image. For example, if you adjust the color and don't like the result, immediately select this to "go back" to the previous version prior to the color adjustment.

Redo - re-performs the previously un-done action. You can toggle the state of this and **Undo** back and forth to examine the last change you've made to a file as a way of judging if you like the effect.

Cut - this "cuts" the selected region to the Windows clipboard. You must mark a region with the Select area tool, it's the dotted box on the Painting tools palette. The area you cut will be "blanked out" with the background color you define in the **Capture settings tabs** or by using the Background color selector in the painting tools palette The default color for backgrounds and cut regions is white.

Copy - copies a marked region's data from the document to the clipboard, or if you've not marked a region, it copies the entire file's contents from the document into the clipboard.

Paste - pastes data from the clipboard into the current document's workspace. You can move it by dragging it, but once you've stopped dragging and chosen another tool or moved to "view only" mode, the pasted material will become "glued" permanently on top of the previous image. (You can always Undo a paste using the Undo function.)

Paste as new image - if the clipboard contents are from a graphical source, they will be pasted into HyperSnap-DX 4's application workspace as a new image (which you can then process and save using the program's features). If you've changed the currently-opened image but have not saved your changes, you will be prompted to do that.

View menu help

Full screen - displays the current document using your full screen (hiding all other programs and HyperSnap-DX 4's interface.

Previous file - loads the previous file in the current directory into HyperSnap-DX 4's workspace. This function (with the Next file function) gives you a quick way of jumping back and forth to examine files within a directory.

In a way, these two tools are like a big-window "preview" function, letting you quickly see the files within even a very large directory by hitting **Page down** and **Page up** to go forward and backward, respectively. It's very easy to quickly scan through a working image directory to find the file you want using these two functions.

Next file - loads the next file in the current directory into HyperSnap-DX 4's workspace. This function (with the Previous file function) gives you a quick way of jumping back and forth to examine files within a directory.

In a way, these two tools are like a big-window "preview" function, letting you quickly see the files within even a very large directory by hitting **Page down** and **Page up** to go forward and backward, respectively.

Toolbar - shows or hides the toolbar. Note that if you hide the toolbar, you will lose some one-click access to certain features.

Status bar - shows or hides the status bar. The status bar provides important information while you work, such as the function of menu items as you scroll through them, and certain values of the current image in the right-hand panes of the bar.

These panes will change to reflect the mouse coordinates as you move them over the image, making it possible to mark precise locations on your image should you desire this.

Painting tools - shows or hides the painting tools palette. If you are not painting on your captures, and have limited screen real estate such as a system running at 640 X 480 resolution, you may wish to hide these tools.

The painting tools are used to edit a capture (or a loaded image). You can see some point-and-click help about them in the help for HyperSnap-DX 4's toolbar.

Customize - this function lets you set many aspects of HyperSnap-DX 4 user interface to work in the ways you want it to. For example, you can define which toolbar buttons are shown, add new buttons from the available functions, customize menus by re-arranging them, hiding or changing items, customize the keyboard shortcuts and establish the overall look and feel of the toolbars and menus. For more information see *Customize the user interface* topic on the next page.

Customize the user interface

The **Customize** command on View menu lets you set many aspects of HyperSnap-DX 4 user interface to work in the ways you want it to. For example, you can define which toolbar buttons are shown, add new buttons from the available functions, customize menus by re-arranging them, hiding or changing items, customize the keyboard shortcuts and establish the overall look and feel of the toolbars and menus.

The **Commands tab** allows you to quickly build by adding and removing (by dragging and dropping) the buttons you want to have on your toolbars. Note that the only toolbar that can not be customized is the drawing tools bar. Highlight the category you wish to work with from those available on the left and the rightmost pane will change to reflect buttons available within that category. Then click on the button you wish to add, and drag and drop it into the position on the program's bar where you'd like it to go. Continue through the various categories until you've got the buttons you want.

To remove buttons you don't want from the application's toolbar, click and hold on that button and drag it completely off the HyperSnap-DX 4 user interface. A little X will appear on the bottom of the button's graphic below the mouse, showing you that you cannot drop the button there and have it work. (That's okay, you're removing it.) Let go and the button is now gone. If you make a mistake, you can re-add the same button from the applicable category by dragging it from the category list and onto the bar.

Once you're finished adding or removing buttons, click on the **Toolbars tab**. Here you can, if you desire, completely hide the customizable toolbars by removing the checkbox next to the bar's name.

The Reset button will re-enable the selected bar to its default configuration and enable it. You'll lose any changes to it you've made if you click Reset, so be careful---this cannot be un-done once executed. (Reset All will reset multiple groups of bars should multi-bar support be added to the program.)

The **Keyboard** tab lets you customize keyboard shortcuts to the different functions available via the menu. First select the menu in "Category" window, then select the command below and see current keys, if any, assigned to that command. You may delete the keys or add new ones. To assign a new key to a command, click into "Press New Shortcut Key" field, and then simply press the key combination you want. If that combination is available (not used by other commands), you can click the "Assign" button, then proceed to customize other keys.

The **Menu** tab lets you customize the menu. When you open this tab, you can set certain aspects of menu appearance (animations and shadow). You may also click any menu and drag its items to rearrange them, drag them off the menu to delete them, or right-click a menu item to change the text etc.

A click with the right mouse button on any menu item when "Customize" window is opened allows you to further customize the appearance of that item. For example, you may select if HyperSnap-DX should show an image and text, or only text, change the text and so on.

Click on the **Options tab** to see several other important settings. Here you can control button size and tool tips. These options include the following.

Show ScreenTips on toolbars - either enables (checked) or disables (unchecked) the help text that appears when you hover the mouse over the toolbar button.

Show shortcut keys in ScreenTips - this sets the ScreenTips, when enabled, to also display any available keystroke shortcut to execute that button's function. Enabling this is a great way to learn the

keyboard hot keys for operating HyperSnap-DX 4, and the keyboard is almost always faster than the mouse.

Large icons - checking this uses the "SVGA" button size. Great for users with high-color high-resolution displays such as 1280 X 1024. The buttons are easier to see than the smaller buttons at such a resolution, although they take up more screen real estate.

> If you have a lot of buttons showing on the toolbar, and then check Large icons, you may find your buttons are larger than the available screen space can show. Either remove some buttons, or go back to the smaller size buttons. Alternately, if the single-row takes up too much space, you can pull the button bar "off" of HyperSnap-DX 4's user interface by grabbing the raised area at the left edge of the bar and dragging it "away" from the menu (either up, down, or away to either side totally off the HyperSnap-DX 4 window).
>
> Then it will become a free-floating palette which you can size like a window, allowing you to double-up the rows. You can place it anywhere you like on your screen, it will still function as before even if it doesn't "touch" the HyperSnap-DX 4 window. To replace it, simply drag it back into the previous place. The "side" bar will move out of the way as may be required. (Both the top bar and the side bar support this positioning method, by the way.)

Look 2000 - changes the toolbars to look like Windows 2000 and Office 2000 toolbars.

Menus show recently used commands first - enable this to set the program to prioritize the menu items by how often and recently you've used them. Most-used commands are "slid" to the top of the menu, and least-used commands are hidden below the little double "caret" at the bottom of the menu. Some people find this behavior desirable (typically folks who use the mouse more than the keyboard, where menu placement by counting up or down to the menu item you want is the norm). Others prefer the menu to be static, like previous versions and most software. If that's your preference, disable this function.

Show full menus after a short delay - this works in tandem with the above listed function, and causes the least-used menu items (which are hidden beneath the little double "caret" at the bottom of the menu) to automatically reveal themselves after a brief delay of a few seconds. This way you don't have to click the double caret character to unfold the menu, by holding the menu open it will automatically unfold to reveal the "hidden" menu items.

Tear-off menus - when you open any menu during normal program operation (not when you are in "Customize" mode) you should note a horizontal grey bar on top of it. You may grab this bar with your left mouse button and left-click then drag the menu itself away from its docked position to "tear off" the menu. This allows you to make a floating "menu toolbar." If you want, you can dock this toolbar to any side of HyperSnap-DX 4's window, thus having single-click access to all menu functions.

Capture menu help

If you need help regarding the **Capture settings tabs**, there's an entire section of this document dedicated to that.

If you need help covering "special" captures from advanced 3D hardware such as Direct3D screens or Glide hardware, there's an entire section of help for that, too.

Full screen - capture the image of the entire desktop and all applications visible on it. This is basically like the **Print screen** function that's built into Windows itself.

Virtual desktop - capture the desktop, including those on multiple monitors or in regions currently not visible that are provided by video drivers with "enhanced" desktops. Such captures are impossible with the built-in **Print screen** function in Windows, which only captures the current desktop, not the entire (even invisible) regions.

Window or control - as you move your mouse, a blinking frame will appear around the target object. You can capture an entire window or just a predefined area within a window such as a control or button.

Move to the window you want to capture.

Click with your left mouse button to select and capture the region around which the blinking frame surrounds.

Note: Click your right mouse button to abort this function.

Button - This function will capture a button, including toolbar buttons in many applications, most buttons on web pages etc. You may use it in 3 different ways:

Select *Capture*/*Button* from the menu or corresponding toolbar button (if you customized a toolbar to have this function).

After a short delay the cursor will change to a **+** symbol. Move it over the button you want to capture and click the left mouse button.

Wait for a short while until the capture finishes and the HyperSnap-DX window reappears. This will capture a button in it's natural "resting" state, as if no mouse cursor was over it.

Or...

Move your mouse cursor over the button you want to capture, and press your pre-selected hot key combination to activate *Button* capture. (By default, if you didn't change it, it's Ctrl+Shift+B).

This will capture a button in its highlighted, or "active" state, as if the mouse cursor was over it. Note that some buttons *do not* change appearance when you move the mouse cursor over them. Some perform what's called a "flyover" change, and may alter their color, font, and so forth.

Or...

To capture a button depressed, move the mouse cursor over it, press and hold down the left mouse button, then press the hot key or key combination to initiate button capture.

Note that now you'd need to press the hot keys with only one hand, so it may be wise to reassign the button capture hot key to be just *one key*, not the default **Ctrl+Shift+B** combination. For example

you can briefly make it just the **F8** function key. You may reassign hot key under **Options**/**Configure Hot Keys...** menu.

Active window - capture only the "topmost" window, or the window that currently has focus. This is similar to the **ALT+Print screen** function that's built into Windows.

Active window without frame - capture the "topmost" window, but do not capture its window frame, just the portion of the window inside of the frame. Great for grabbing the contents of a window without such things as toolbars, menus, and so forth. For example you can grab a terminal screen from an on-line session (or web browser) without getting the button bar or status bar.

Region - when clicked, a large cross cursor (+) will appear.

Click using your left mouse button to indicate where you want to start the capture area, and then release it.

Drag the outline to enclose the area you want to capture, and click the mouse button again. The size (in pixels) of the capture will be shown within the area.

Click the left mouse button to complete the capture.

Pan last region - you can capture a region the same size as before, but from any part of the screen. In effect, this function is like taking your previously defined region box and allowing you to "slide" it around the screen to choose another same-size area.

> **Note:** If you're fitting captures into specific-sized frames in a document (for example) this technique will make that extremely easy, as each capture will be the exact same proportions as the previous region capture.

Multi-region capture - this is an advanced form of capture, perhap's the program's most powerful. It allows you to grab multiple regions of the screen, with the unwanted space filled with a background color. See the Advanced tutorials for a comprehensive walk-through on how to use this feature.

Repeat last capture - this function repeats the last capture (including all settings and ranges) exactly as it was executed. Great for tracking a specific window that you want to track over time without repeatedly selecting it, etc. By selecting this multiple times or repeatedly pressing its hot key, you can grab the same region, window, or control over and over to display program progress, repeated terminal screens, or anything that changes within the same area or type of capture.

Extended active window - this function is available only when running on Windows XP or newer. It captures the last active window, but before capturing it, prompts you how big you want to make this window first. You may specify any size you want, optionally much bigger than the screen. Note that this will work only for "resizable windows", that is those windows which you may also resize with your mouse pointer.

Use this function for example to grab a web browser window showing entire web page, even if it would be 4000 pixels high - or a spreadsheet table, even if you'd have to make the window 5000 pixels wide to fit it!

Capture settings - loads the configuration tabs that allow you to define the options for capturing, making possible (for example) rapid repeat capturing with auto renaming, and other advanced features.

The capture settings tabs are explained in depth in the Advanced topic category Capture settings tabs.

More about region captures

While region capture is activated, the following additional useful options apply, and will be shown in a small window as a reminder. Toggle them off by using F1 or by un-checking the option **Show help and zoom area during Region Capture**.

Use the mouse or the following keys:

F1: Toggle help text and zoom on/off

Arrow keys: more pointer by one pixel

Shift+Arrow keys: move pointer by 10 pixels

Ctrl+Arrow keys: move pointer to an edge

Esc or Right mouse button: abort operation

Enter or Left mouse button: accept this position

+: hide/show mouse pointer

Once the first anchor point is established, these tips are added:**X**, **Y**: Lock/Unlock X or Y axis movement

-: hide/show rectangle size in pixels

Tab or **Home**: switch rectangle corner

> **Note:** You can now change the **F1** key to something else (Options/Hot Keys menu) if **F1** interferes with other applications.

Image menu help

Crop - once you've captured or opened an image, you can crop it within HyperSnap-DX. Click using your left mouse button to indicate where you want to start the capture area, and then release it. Drag the outline to enclose the area you want to capture, and click the mouse button again. The size (in pixels) of the capture will be shown within the area.

Change resolution - the image resolution, usually expressed in number of dots per inch (dpi), affects the size of an image when it is printed or inserted into other documents (for example into an MS Word document). If you change the resolution to a higher value, each pixel will become effectively smaller, so the whole image, when printed or inserted into some document, will appear smaller as well.

Choose the value you want to use for both horizontal and vertical resolution in the dialog that appears. If you select different values for the two, your image will become squished or stretched (which may be what you desire, you can use this as an effect).

In general, a resolution that's evenly divisible into or by the final intended display device will produce the best results.

Scale - you can resize the image using the dialog that appears when you select this item. From that dialog you can choose to resize via a percentage calculation, or by directly manipulating the pixel count of the image. Drag the percentage slider control left to make the image smaller, or right to make the image larger. Your changes are reflected in HyperSnap-DX 4's application workspace.

Type in the desired pixel values for width and height if you would prefer that method, and click **Apply** to see the values applied to the current image.

Auto-trim - HyperSnap-DX 4 will examine the image and trim "blank space" from around the image. This is handy for removing unwanted white space from outside of the borders of a target image's contents. If you find it doesn't perform the desired trim, select **Undo** before performing any other functions to restore the previous result.

> **Important!** The functions from here forward on the **Image** menu will operate on either the entire image---or, if you have selected a region---just on that selected region. If you apply these functions to a selected region, the tool will perform its function on the selection and then apply it back to the document. Any "empty" space generated by the tool (such as a rotation) will be filled with the previously-defined background color. In this way you can rotate something in the within an image, or mirror something within an image, and so forth.

Mirror - this menu item has two sub-items: Horizontal Mirror and Vertical Mirror. When either is applied, the image changes into a "reversed" image, as if a reflecting surface was placed either horizontally or vertically, per your selection.

The **Undo** command (Edit / Undo or Control-Z) can reverse the effect.

Rotate - this menu has four sub-items: 90 deg. Rigth, 90 deg. Left, Flip (upside down) and Any Angle

The Rotate - Any Angle item rotates the image by any angle. You may enter the angle as a positive or negative number in the range of -360 to 360 degrees. You can use the slider to rotate the image and immediately observe the effect in the preview display.

> **Important!** Note that if the angle you enter is not a multiple of 90 degrees, some background around the image must be added, to fill the available space and make the image rectangular again.

You can choose the color of this background with the **Select Background Color** button on the dialog as well as the background selector tool on the **painting tools palette** or on the **Capture settings tabs**.

The **Undo** command (Edit / **Undo** or Control-Z) can reverse the effect.

Shear - this function acts to "slant" the image along various axis points, as if you were rotating a picture on a canvas along the various planes. You can enter a direct value for this in degrees, or drag the slider to apply a dynamic value to the image. You can force the image to "lean" along a strictly horizontal axis by checking the horizontal box.

The effect here is as if you were rotating a standing canvas either toward you or away from you on a table top. If you un-check this box, the image's "canvas" will rotate on both vertical and horizontal dimensions, altering both the complete dimensionality of the image.

> **Note:** Because the image will no longer be rectilinear, you'll need to select a background value to fill the space left when the original is modified. Choose this with the **background color button** on the dialog. The default for this color (used for all fill functions) is set on the **Capture settings tabs**, but you can change it here.

Mosaic - this function applies a special effect to the image that makes it appear to be made of tiles. You can define the size of the "tiles" in pixels (they are always square tiles) by typing in a value or by scrubbing the slider back and forth.

The larger the tile size, the greater the distortion applied to the original image's appearance. The smaller the tile size, the less distortion and the more recognizable the image will be. Very large tile sizes will essentially blur the image totally so it's no longer recognizable. Low tile size settings can resemble those "hide the witness" videos used on television shows.

Emboss - you can give the image the appearance of being 3-dimensional by applying this special effect. First select the originating direction for the simulated relief. Then select the apparent depth of the relief in pixels.

The deeper the relief, the more the image will appear to distort from the original, as if you had wrapped the a photograph of an object over a 3D model of the object itself. The effect varies greatly depending on the quality and nature of the original image.

Flatter images with lesser contrasts will show a smaller effect, images with moderate contrasts will show the most realistic effects. High-contrast images may look the most distorted when this effect is applied. Experiment with the settings on this function, it can achieve some very interesting effects.

Sharpen or blur - This function sharpens or blurs (softens) your image. It may be sometimes used after resizing an image smaller, to enhance a little bit the clarity of text or other small detail.

More about resolution

The resolution setting *does not* affect the appearance of an image in HyperSnap-DX window.

The default resolution to keep the original image size in printing and pasting to other documents should usually be 96 dpi for high resolution monitors (800 X 600 or higher setting), and sometimes 72 dpi for low monitor resolutions. However sometimes it may need to be modified to make the image appear in the desired size.

This function is accessible via two different ways.

In the Options menu, **Default Image Resolution** displays and sets the default resolution for all images that you will subsequently capture.

In the Image menu, the Change resolution / **Image Resolution** dialog displays the resolution of the image currently displayed in HyperSnap-DX window, and allows you to modify the resolution used from that point forward as well as applying the change to the current image displayed in the program's window.

You may check either one, or both of the boxes. The changes (if you make any) in default resolution or current image resolution will take effect immediately when you close the dialog (unless you click Cancel).

More about cropping

While activated, the following additional useful options apply, and will be shown in a small window as a reminder. Toggle these off using F1 or by un-checking the option **Show help and zoom area during region capture**.

F1: Toggle help text and zoom on/off

Arrows: more pointer by one pixel

Shift-Arrows: move pointer by 10 pixels

Ctrl-Arrows: move pointer to an edge

Esc or Right Button: abort operation

Enter or Left Button: accept this position

+: hide/show mouse pointer

X, **Y**: Lock/Unlock X or Y axis movement

Once the first anchor point is established, these tips are added:

-: hide/show rectangle size in pixels

Tab or Home: switch rectangle corner

> **Note:** You can now change the **F1** key to something else (Options / Hot Keys menu) if F1 interferes with other applications.

The points are now picked upon release of left/primary mouse button, not upon button press as in HyperSnap-DX 4 versions before 3.40. This allows you to easily pick (for example) the left or top edge of the image. Press the left mouse button, hold it down, go out of the HyperSnap-DX window, and then release there.

This will pick the nearest edge of the image, or (for example) a point (0, 0), if you go to the left and top of HyperSnap-DX window.

> **Note:** HyperSnap-DX 4's window does not auto-scroll if you try to drag a selection beyond the edge of the programs' window. But you can resize the program's window or use the scroll bars to adjust your view and make cropping more convenient *without losing your selection*. The selection edge markers will reactivate as you move your mouse back into the HyperSnap-DX 4 main window.

More about scaling (resizing)

The slide control interactively adjusts the sizing, displaying the results in the boxes, although you can type directly into the box to "jump" to the setting if you want.

You can enter percent of original size, width, in pixels, and height in pixels *directly.* These will interact with each other by recalculating the other values if you've chosen to maintain the aspect ratio (that's the ratio of height to width).

Keep Aspect, when checked, maintains the mathematical relationship between width and height, so your image remains its original rectangular proportions. If you un-check this, the image may become stretched and distorted if you resize the horizontal and vertical dimensions using disparate values.

Interpolate can help improve the end product when you're both enlarging and reducing images by using mathematical formulas to fill in missing pixels.

You can use the Apply and Revert buttons with and without the box checked to determine which variation suits your purpose.

The Apply and Revert buttons apply and reverse the effects of your actions of the current session, making quick comparisons easy and fast.

Color menu help

Color resolution - using this dialog you can change the color "depth" of the active image. For some applications you may want to reduce the color depth or increase it to allow the inclusion of additional color information or make certain special effects operations look better. Possible values are from 1 (monochrome, a depth of either black or white) up to 32 bit, which contains every possible color plus a plane for transparency.

Choose how the colors are ordered in the data, selections being Blue-Green-Red or Red-Green-Blue. "Standard" windows bitmaps typically use RGB ordering, and changing this will have the effect of reversing the apparent color of the image.

You can effect how an image that is reduced to a level below "optimum" is dithered (which means colors "close to the original" are approximated by certain pixel changes). There are several possible dithering options from which you can choose here, and the final result will vary significantly based on the original image, its original color depth, and patterns within it.

For example, an image with a pattern of fine lines may not reduce well to a level where it must be heavily dithered, because the dithering will degrade the apparent resolution of the line content of the image. Your best approach is to move the dialog to the side so you can see your image, and click on the various dithering procedure radio buttons one-by-one until you see the one that handles your image's color reduction in the best fashion.

Choose the bits per pixel you wish to use, and then select from the following options.

Palette options - choose from **Optimized, Windows standard, Netscape** (for web use), or **Black and white.**

> **Note:** If you're creating a 16 color graphic for use in a Windows application, you should use Windows standard. This means that the basic 16 colors that Windows "reserves" for use within its user interface are also reserved and used in the graphic, if it needs a full 16 color set. This way loading of the graphic will not cause your system palette to shift, an undesirable characteristic that disturbs users.
>
> **Note:** If the final destination of your graphic will be a web page, and you want it to look "accurate" for users of Netscape Navigator, you should select the Netscape "web safe" palette. Note that IE doesn't use the same palette (of course, why would that be the case?).

Dithering pattern - there are several patterns here, and one setting (the default) which is **None**. If you do not dither an image and you reduce colors beyond the level required to correctly display the contents of your image, you may get "blocky" results.

Your best bet is to experiment with the varying dithering methods (they all have pluses and minuses) and find the one that works best with the type of image you are creating. No one method works well for all data types and color depth types. After trying a method, if you select Undo from the edit menu, you can try another, and so on until you find a pattern that serves your needs.

Click on **Revert** to cancel changes to these settings and put the image's settings back how they were if you've decided to not perform the operation you were about to execute.

> **Important!** You can perform functions ***from this point on*** within items on the Color menu applying them to either *the entire image* or---if an area is selected---within just the selected area. This way you can convert part of an image to Black and white, or grayscale, and so forth. Items above this point in the menu are "global" and affect the entire image.

Black and white - converts the current image to a black and white image. You can enter a black level between 0 and 100. A value of 0 means a white image, a value of 100 means a black image. You can drag the slider back and forth instead of manually entering a value if you prefer. This way you also get a preview of your changes in real-time.

The change to your image is reflected in the preview window provided on the dialog.

Halftone - applies a halftone screen (similar to shooting a screen for monochromatic printing) to the active image. You can change the angle of the screen (how it is applied across the image) by scrubbing the slider control or entering a value into the angle box.

> **Note:** You may have to experiment with the screen angle to get the desired results, and every image accepts half toning differently based on its complexity and type of content. Images with very fine line content, light colored text, or plenty of diagonal lines often do not halftone well.

Grayscale - converts the image to grayscale, which is akin to a "black and white" photograph. The image's chromatic data is converted to values of gray. You may want to do this, for example, to print a color image on a laser printer that supports grayscale printing.

HyperSnap-DX 4's conversion may provide better results than the printer driver's engine when sending color images to a grayscale laser. This varies by printer driver an other issues.

Brightness - scrub the slider back and forth or enter numbers from -100 (black) to +100 (white) to alter the luminance of the image. You can adjust the brightness of your image (just like how you adjust the brightness on a TV) by using the controls here. Select a percentage to increase from the original, from no change to a 100% increase, or from no change to a -100% decrease.

> **Note:** Working with **Gamma** and **Contrast**, you can use this to get washed-out or overly-dense images back into usability.

Contrast - scrub the slider back and forth or enter numbers from -100 (remove contrast, rendering the image ver "flat") to +100 (maximum contrast, deeply blackening the shadows) to adjust the image's appearance.

This function works exactly like the same-named control on your color television set. You can adjust the "knee" of the image to that it represents a greater or lesser range of contrast values. The effect here will be to "block up" the image (more contrast between dark and light areas) or "flatten out" the image (less contrast between dark and light areas).

> **Note:** Combined with **Gamma** and **Brightness**, you can correct faded, flat, or blocked-up images with these functions.

Hue - similar in some ways to the hue control on a television, you can alter the balance of the image across the "color wheel" by scrubbing the slider back and forth or entering numbers from -360 to +360. The color wheel represents all possible color values across the spectrum in a circle, and the value represented here is the location of a virtual "pointer" on the full circle. The color at that location will become the central "bias color" of the image.

> **Note:** Note that 1, 0, 360 and -360 represent the same position, just gotten to by different directions of rotation, so there is essentially no change in your image. If you have 360 degrees of rotation, and you rotate backwards 360 degrees from your original position (which is defined as 1 or 0) then you haven't really moved anywhere significant, you've just spun around in a circle and now you're facing the same way.

Saturation - this function is precisely like the color control on a television. You can choose values of -100 (no chromatic value, a grayscale image) to +100 (maximum color value, extremely over saturated) by scrubbing the slider or entering the desired value.

> **Note:** Think of Saturation as you would how "wet" a brush is when it's dipped in paint. The wetter it is, the more intense is the color. The drier it is, the less intense is the color.

Gamma correction - this can adjust the "knee" of the image by increasing the apparent "light" content of the image. Imagine looking through a slide at a light source that is adjusted so it's either brighter (positive gamma) or dimmer (negative gamma).

> **Note:** A slight positive increase can bring out shadow detail lost in photographs. A slight negative adjustment can make washed-out scans of old photos appear slightly better, in some cases.

Invert black an white - this function reverses the "polarity" of black and white content in the image. If your image doesn't contain black or white components (for example it's solid colors with neither black or white) this function will have no effect.

Invert colors - you can turn positive images (such as scans of photographs) into reversal color, and you can turn negative images (such as scans of camera negatives) into positive images by toggling their state here.

Substitute colors - This function does pixel by pixel substitution of colors on your image according to the list you define. You can create each entry in the list as either one way "replace" substitution. For example, you could set the program to replace each green pixel with red. Alternately you can perform a two-way substitution or "swap," so that where a white pixel exists the program should replace it with black, and where a black pixel exists, the program should replace with white.

Unique colors - although an image may be defined as a 256 (8 bit) or 16 million (24 bit) color, it may actually only have a limited number of the available colors in use. To view that value here, activate this function.

> **Note:** If you're about to change the color resolution (also called color "depth" of an image, sometimes previewing the unique colors in use may provide a key as to how far down in total color resolution you can go before the image degrades beyond use. For example, a 256 color image with only 30 colors in use can probably be dropped to 16 colors without terrible degradation, but a drop below that would not be desirable.

Options menu help

The second item on this menu is simply an "enable/disable" function. It does not load any dialogs, and its functionality is like that of a light switch, really. It's labeled **Activate hot keys**. If this menu has a check next to it, that instance of the program will respond to the appropriate hot keys as defined in the **Configure hot keys dialog**. If the menu item is un-checked, it means that hot key support for that HyperSnap-DX 4 window isn't enabled. There's a related toolbar button that serves the same purpose, you can read more about the toolbar in the **HyperSnap-DX 4's toolbar help topic**.These settings control how the program interacts with your system (for example replacing the default Windows **Print screen** function), as well as how the program will appear on your computer's desktop and respond to key presses.

> **Important!** A note about multiple instances: if you run multiple instances of the program, *only one copy* can respond to hot key requests. So if you check this menu item (or depress the **Activate hotkeys** toolbar button, or set that option to "on" from the **Configure hot keys dialog**) on instance number two (for example), instance number one will lose its ability to trigger captures from hot keys. You can toggle it back on again, but this will then disable hot keys on instance number two. This makes sense if you think about it for a moment.

Configure hot keys dialog

Here you can set the keys that control HyperSnap-DX 4's functions. Most users won't need to change them from the default, but if you wish to (because of a conflict, for example, with another program you're using, or a conflict with a Windows shortcut hotkey) it's easy to do.

Examine the list of available functions, and click the button to the right of that function to change its hot key.

A box will appear, and with the cursor inside that dialog, press the key combination you wish to use for that function.

> **Important!** This is probably obvious, but make sure that none of the key combinations conflict with other programs you're using, or Windows hot keys used by the system itself (such as **Ctrl+Esc** which opens the start menu).

Click OK to approve the change.

Repeat for every function whose key combination you wish to change.

Handle Print screen keys - check this to have HyperSnap-DX 4 take command of the standard Windows **Print screen** functions. If you enable this, the program will control these functions and put captures made using these **Print screen** into its workspace in addition to captured screens going into the Windows clipboard, as they do with the built-in Windows function.

Activate hot keys - check this to let HyperSnap-DX 4 use its hot key functions. If you uncheck this, the hot keys are disabled, and you'll have to use the mouse or HyperSnap-DX 4's menus to control capturing functions.

Clear all - click this to "blow away" all of the definitions for hot keys. This is handy if you want to completely shift them around, for example reversing a key combination between functions, which is

impossible unless you clear them (the error-checking in the program won't let you set two functions to the same keys). If you do this by mistake, the Defaults button, explained next, will restore the default settings, and the Revert button will get back your previous custom settings.

Defaults - if you change the key combinations and later decide you don't like them, click this button to revert the program back to its start-up settings. Note that your changes will be lost for every hot key you've set.

Revert - click this to "back up" the hot keys to the previous settings prior to the last changes you have made. This is like an "undo" function, and allows you to keep your previous custom key settings while discarding any experimental changes.

When you're finished, click on **Close** to complete the changes to your hot key combinations.

Activate voice commands

Check this to instruct HyperSnap-DX 4 to enable control of the program through Microsoft™ speech recognition technology. This function allows you to capture (and manipulate images) using voice command technology. By speaking the name of a menu item you can activate that item, and thus use the program without keyboard or even mouse access in some cases.

The Voice Command Interface (VCI) available in HyperSnap-DX 4.10 and higher uses the Speech API 5 (SAPI5) programming interface. This interface is a standard component of Office XP and Windows XP. Users of earlier versions of Windows who'd like to use VCI, need to download the components or to order a CD and install the required files.

The minimum set of files necessary for VCI functionality to work in HyperSnap-DX is about 50 MB, so it's a long download with a slow modem connection. DSL users will not be bothered by the large file size.

You might want to order our Hyperionics Technology LLC Download-Saver CD for $9.95 plus shipping, which contains both the SAPI5 Runtime and the latest versions of several Hyperionics Technology LLC software products (only fully released English language versions, there is no beta-test code on the CD-ROM). Visit www.hyperionics.com.

To learn more about SAPI5, drop by Microsoft's speech technology web pages at: http://www.microsoft.com/speech.

If several SAPI5 applications using a similar set of voice commands are running, you must proceed each command with "HyperSnap" to make sure that HyperSnap-DX 4 gets the command. Otherwise your results may be unpredictable.

> {bmct tip2.bmp} If you do encounter problems with speech control not working as expected, you might want to try this procedure: Run the Windows Control Panel and locate the icon for ***Speech Properties***. Run the Speech Properties program by double-clicking it. (This function may have a slightly different name, but that's probably it.) Left click on the "Configure Microphone" button there to adjust your voice input volume levels and the other settings of your microphone. Then left-click the "Train" or "Train Profile" button which is used to train the speech recognition engine to recognize your voice better. Practice the set of available HyperSnap-DX 4 commands using this function until you find that recognition of your voice is as expected.

Below is a complete list of available speech commands from within HyperSnap-DX 4 once this feature has been enabled, and the required system components have been installed.

Voice commands list

You can use the following voice commands within HyperSnap-DX. If you encounter problems, try speaking more slowly and more clearly. Make sure you use a high quality microphone, and like all current speech recognition technology, this one requires a respectable pause between all commands in order for them to process. The faster your computer, the faster you'll be able to speak the commands, to a certain point.

Screen Capture Commands

Say ***Capture*** or ***Snap***, and optionally add ***the***, followed by any of the following items:

Full Screen

Desktop

Window

Active Window

Active Client

Region or ***Rectangle***

Mulit Region

Pan Region or ***Move Region*** or ***Pan Rectangle*** or ***Move Rectangle***

Repeat

Drawing Tools Commands

Say ***Take*** or ***Get***, and optionally add ***the***, followed by:

Line

Pencil

Miscellaneous Commands

Microphone off

Activate or ***Restore*** (to restore and bring the HyperSnap-DX 4 window to the front)

Minimize or ***Iconize*** (to send it to the system tray or task icon list)

Maximize

Help or ***What can I say?*** (displays brief help which has links to this file)

For users with physical limitations, speech technology offers new-found freedom and will allow many for the first time to be able to use our program with relative ease.

Control mouse with keyboard

This feature lets you drive the cursor for fine operations without using a mouse. You can effect mouse cursor control with only the keyboard. This gives you great pixel-level accuracy when you're drawing, copying, cutting or pasting images within the HyperSnap-DX 4 window.

The following keys become active when the Control Mouse with Keyboard option is enabled:

Arrow keys - move cursor up, down, left or right by 1 pixel.

Tab - hide/show mouse cursor (when cursor obscures part of the drawing you need to see)

ENTER - simulates a left mouse button "down" function. When you press the ENTER key once, the mouse cursor blinks. This informs you that HyperSnap-DX thinks that you're pressing the left mouse button (for drawing, drag-drop operations etc.) even though you don't really have to press the left mouse button.

Now you can move the cursor using the mouse---or the arrow keys---to draw, select or drop what you need with great precision. The mouse is for large moves, and use the keyboard for very fine adjustments you may find difficult with the mouse or trackball. (Such as moving a cropping bounding box out by one pixel just to the right---something that's especially difficult with most mice.)

When you're done with the current function, press the ENTER key again to simulate "left button up" or click the left mouse button for the same thing.

Zoom in/out with Ctrl key + mouse wheel - You can turn your mouse wheel (if your rodent has one) while holding the CTRL key to let you zoom in or out of an image. This works like the magnifying glass tool on the drawing toolbar.

Startup and tray icon dialog

Here you control how HyperSnap-DX 4 looks to you and how it handles the way it loads.

Auto-start with Windows - checking this causes the program to add itself to the list of programs that load with the operating system. If you use HyperSnap-DX 4 a lot, this can save you a bit of time. Since you can enable the program to "take over" the **Print screen** function (which it only handles if it's running) it will make the behavior of the system consistent if HyperSnap-DX 4 is always running. If you only rarely use the program, you should leave this unchecked to conserve resources and memory.

Always start minimized - the program will load in iconic mode, down on the taskbar, if you check this. Checking the first two options (this one and the previous) makes sense if you work with the program a lot, but don't need to see its application window until you've done a few other things during a session.

Display system tray icon, hide taskbar button when minimized - checking this hides the minimized program's icon and displays only the smaller icon in the area by the clock on the Windows taskbar. This is handy if you run many programs and want to conserve space on the taskbar.

> **Note:** When you enable this item, another option appears, **Do not exit when I click the X button**. This way you can "minimize" the program back to the system tray by "closing" it with the

X button. Enabling this prevents accidental closure of the software when you really meant to minimize it.

Click on **OK** to complete your changes. At that point, if you enabled the system tray icon, the program's icon will be removed from the task bar and will appear on the system tray.

Default image resolution dialog

You can control the default settings here for the resolution of images you capture. You can override these during "custom" captures and change them post-capture with the image processing tools on the **Image menu**, too.

The setting here will be defined as the "starting" point. It defaults to the DPI of your system video driver.

Horizontal resolution - define a value here that provides you with the resolution you require for your application of most images. A good start for super VGA users is 96 DPI. Users running less than SVGA should probably use 72 DPI. If your final destination is going to be printed (rather than for use only on the computer screen) try setting a resolution that's close to that of your printer, or something evenly divisible into your printer's resolution. For example, 150DPI for a printer that supports 300 DPI. This makes scaling the image easier, since it's a simple doubling.

Vertical resolution - this is handled the same way as Horizontal, above, and the two should generally be equal to prevent distortion. However, in the case of your destination being a printer with "non-square" resolution (for example, 600 lines of Horizontal and 300 lines of Vertical) you could pick a non-square value for these two and you'd get good results, because they'd match the printer's capabilities.

Apply to the current image - simply a quick way of applying what you enter here to the image open in HyperSnap-DX 4 at that time. You can apply this using the **Image menu** item, Change resolution.

Use as default for future images captured from the screen - sets the options you've defined here to be used "from now on" for captures. You can override these during post processing if you desire, too, using the Image menu's tools.

Click on **OK** to complete your changes.

Image Position and Background

This function allows you to select the color and hatch pattern for the portion of HyperSnap-DX window that's not filled with a captured image. You can also decide if you like the image positioned in the top left corner or centered, when it doesn't completely fill the application's window.

The background color and hatch might be important when you want to test for example image transparency. On the Background Color button of the HyperSnap-DX 4 drawing toolbar, you can select one color from the image and make it transparent, so that when an image is saved in GIF format (which supports transparencies) and is later displayed in a web browser window, the web page background will show through the image in places where the specified transparent color exists. By changing the HyperSnap-DX 4 image background here, you can test how this image will look on different colored or textured backgrounds, thus giving you a better feel for how it will appear on the destination web page.

OfficeXP Style

This option allows you to toggle between Office XP - like look of HyperSnap-DX toolbars and menus, and a "classic" look for these items. Choose whatever style you like.

Register File Types

This function allows you to set Windows so that when you double-click certain selected file types, HyperSnap-DX 4-will be used to open (and thus view or edit) those specific file types. This is a handy way of allowing you to quickly choose which files are sent directly to HyperSnap-DX 4 and which file types are edited or viewed by other graphics utilities you may have.

To have HyperSnap-DX 4 be defined as the program to open (and thus view and edit) any of the listed files, simply check the box to the left of that file type. Once you've closed the dialog, the selected types will be registered with the system as HyperSnap-DX 4 files. The setting change takes place immediately.

Available types the program can associate itself with include: BMP and DIB, GIF, JPEG/JPG, TIFF/TIF, PNG, LEAD (CMP), TARGA (TGA), and WPG (Word Perfect Graphics format). There are two other options to set on this dialog.

Open each file in the same window - causes HyperSnap-DX 4 to re-use its currently-open (or first-opened) window rather than opening multiple incidences of itself. This means any image open will be replaced with the double-clicked image. (You'll be asked to save any changes should the currently-opened image be altered or new but as yet unsaved).

Open each file in a new window - causes HyperSnap-DX 4 to open as many incidences of its main window as you need to view the files you are double-clicking. This allows you to compare multiple images, for example, or leave a current "project" open in HyperSnap-DX 4 while you examine a new image in a new window

Help menu help

This section contains links to the file you're reading now, as well as quick links to help contents and searching functions.

Contents - loads the help file at the table of contents tabs. From here you

Search - starts the help system in search mode, so you can find information quickly.

Credits - shows the list of Copyright and other credits for the software.

About - shows the version information (important to know if you'll be requesting user support).

HyperSnap toolbar

HyperSnap-DX 4---like all modern applications---can be mouse-driven for many operations. It's got a powerful toolbar which is fully user-customizable.

The toolbar basically replicates the menu functions, but they provide "one-stop shopping," letting you get into the basic features of the program without having to dig open the menus and navigate through them.

The painting tool palette contains tools you can use to draw on your image or otherwise manually modify it. Some of the tools have a drop-down arrow that let you choose from varying properties for that tool. Click on these tools within the actual program interface to examine the possible properties offered for these tools. Hold the mouse over any button to see the familiar "tool tip," which explains what that button does.

The magnifying tool on the palette below the main toolbar lets you zoom in and out of the image for a better look at details (or to see an image larger than the program's current workspace size). If has several zoom levels in addition to **Auto**, which will cause the image to be reduced to fit the current application workspace size as best as possible. (This may cause some distortion in the image, but this is only within the view, the file's contents remain as they are in the 100% view.)

> Note also that the toolbars *and menus* can be dragged off of their docked position and placed where you want them to go, on any side of the program, or floating freely, if that's your choice. You can also customize the toolbars so they contain the buttons you want, oriented in the order you prefer, and so on.

To customize the toolbar select View, then Customize. The user interface editor will appear. Choose a Category, which will then change the list of available buttons on the right. Left-click and then drag the button you wish to add up to the toolbar and drop it where you want it to go. You can also remove an existing button by dragging it "away" from HyperSnap-DX 4's window and letting up the button.

Tips and Hints

This section includes what we think are good ideas on how to approach certain captures using HyperSnap-DX 4.

> **Note:** Do you have a unique solution for a problem using HyperSnap-DX 4? Help your fellow users and send it to the author for use in the next release's hints and tips section and we'll write it into the help. See the **User support** section for ways of getting in touch with us.

Capturing a drop down menu?

How can you capture a drop-down menu or other program feature that disappears when you press the regular HyperSnap-DX hot key or menu item? Follow these steps.

Iconize HyperSnap-DX to the taskbar.

Use one of the program's other hot keys (for example, **Region** or **Window** capture) to get the menu captured---it shouldn't disappear then.

Or...

If it still does disappear, you can press the **Print screen** key on your keyboard to send the entire desktop to the Windows clipboard.

Now, place the shot in HyperSnap-DX by using the Edit / **Paste** menu selection. Using the **Crop** tool will let you select the portion of the image you need.

Hiding HyperSnap-DX 4 during capture.

Yes, it's possible to completely hide the program...in fact, it can even start to feel just like a part of Windows rather than a stand-alone application.

Set HyperSnap-DX's options to **Copy each capture to clipboard** from the Copy and Print tab of the **Capture settings tabs**.

Uncheck the box **Restore HyperSnap-DX window to front after capture** under the **Capture settings tabs**.

Now, go to your word processor or other application and proceed with your work.

When you need a capture, use the appropriate HyperSnap-DX hot key.

The options selected will cause the capture to be sent to the Windows clipboard, so you can simply paste it into your document whenever you need it.

> **Note:** If you need a reminder for which hot key to press, click on HyperSnap-DX 4 in the task bar with your right mouse button, and select the type of capture you want.

Running multiple instances of HyperSnap-DX 4?

Sure, you can run multiple instances of the program. In fact, this is a powerful way to support different capture settings and different types of captures during a single session, and to cut and paste data between different documents. But there are a few things to remember when you do this.

The program's final values for "operating options" is defined by the last copy closed during a multi-instance session. This copy will write out changes to the program's registry upon exit.Only one copy of the program can respond to hot keys. If you want to have multiple instances running.

Only one bit of data at one time can go on the standard Windows clipboard. So if you wish to use the clipboard to exchange data, remember that if you go to instance three to copy something, but previously copied something to the clipboard in instance one, you'll destroy the first data sent to the clipboard.

Capture settings tabs

These tabs, accessible from the Capture settings button on the toolbar, or from the Capture menu item, Capture settings, define the default settings the program will use when you execute screen captures. This section of the help explains each item for the tab set in the order it appears in the tabs.

Before you change a default operation, please make sure you're clear on what that function does and how it will change the way in which the program works. Jot down a note on what you've changed, in case you don't like the results and want to change them back.

> **Note:** As always, the best way to discover what something does is to examine it, change the setting, and re-capture the same screen or window and see how it differs from the previous setting's results. Experimentation will always be the best way to learn what something does, as long as you remember what you changed and what it was previously in case you don't like how it came out.

You can access some of the settings during post-capture processing (for example, cropping and scaling).

Capture tab

This tab controls the core capture functionality. You will probably find yourself changing these parameters more than any other settings tab items.

Delay time before the capture - the default is 500 milliseconds, which would be a half second. If you set this to 1000 milliseconds, it will wait a full second, and so forth. Find a value that gives you the time you need to get things "in order" for the capture.

Include cursor image - check this to capture the mouse pointer or cursor in your image. Great for showing those 1, 2, 3 step explanations such as in software documentation. Capturing a cursor is fairly simple. The easiest way to capture it is by using hot key to actually initiate the capture: minimize HyperSnap-DX window and move your cursor to the exact position where it should be captured. Next press the hot key combination to start the capture, for example: Ctrl+Shift+R for "Region" capture. Note that cursor image gets "burned" into the desktop - now you can move the mouse to outline your capture area, the cursor will be there exactly as you see it.

If you are using HyperSnap-DX menu or toolbar button to start a capture, this is more difficult. Here are the steps for including the cursor in a regional capture (which, if you think about it, shouldn't be able to include the cursor because you're using the cursor to draw the region!)

First outline and execute a region (or multi-region) capture without worrying about where the cursor is.

Verify that the capture came out as you wanted in HyperSnap-DX 4's window, and if it's OK, minimize HS-DX window to the task bar.

Move the cursor over the screen where you want it captured as in the previous "region" capture.

Press the **F11** hot key to repeat the last capture.

The same region will be re-captured again, this time with the mouse cursor in place.

> **Note:** Note that if you changed the default hot key assignment, you must press your current "repeat last capture" hot key instead of **F11**.

Auto-scroll window during Window capture - check this to automatically scroll the captured application's window. It scrolls long pages with a vertical scroll bar, allowing you to capture more than you can see on the screen. In general, leave this function disabled unless you absolutely need this functionality.

> **Important!** Auto-scroll doesn't work for all applications that have a vertical scroll bar. Some applications erase the marks that HyperSnap-DX 4 draws over the window it captures while scrolling. These marks allow it to find out how many pixel lines the window was scrolled during the scrolling interval. If these control marks are erased, HyperSnap-DX 4 has no way of knowing how much data to capture.
>
> In such a case, it will display an error message and capture what it could without scrolling. The most popular web browsers (Netscape and MS Internet Explorer) work well with auto-scroll, and many other programs tested well with it. However it may not work with programs who handle the screen in a method hostile to the control mark method.

Here are the steps for making an Auto-scroll window capture. Please read them carefully before attempting an Auto-scroll capture.

Make sure the Auto-scroll option is enabled, of course.

Have the target window ready, with the vertical scroll bar set to the top, or to the place where you want to *start* the Auto-scrolling capture.

Select Capture / Window from HyperSnap-DX 4's menu, or press the "capture a window" hot key **Ctrl+Shift+W**.

Move your mouse to the middle of the document that you want to Auto-scroll capture and click the left mouse button inside the document.

Watch how HyperSnap-DX 4 scrolls the window, and as it does this, it draws horizontal marks over it.

> **Note:** If you want, you can abort this process early by left-clicking the mouse or by pressing any key on the keyboard. If you elect to wait until it finishes, the window will scroll until all of the available text has scrolled into view and has been captured. On some documents, remember, this might be very, very long resulting in a huge capture that consumes much memory (or disk space).

The capture is complete. Examine the contents of HyperSnap-DX 4's window to make sure it captured the contents correctly, and save the file using the name you wish to use.

Auto-scroll refresh time - sets the rate at which the window will be scrolled during capture. A smaller number causes the screen to be scrolled faster, a larger number causes it to be scrolled more slowly. You may have to adjust this figure to obtain the results you desire from the capture.

Show help and zoom area during region capture - checking this shows context sensitive procedural help during region captures. Once you know how to execute these procedures, you can uncheck this to remove the help screens from your desktop.

Default region shape - you can pick the type of region you want to capture here. It does not have to be rectangular, drop down the list to examine the possible choices, and select the one you wish to use for the default shape.

Start multi-region capture with - choose from either a Window or Control selection, or a user-selected Region to begin multiple region captures. For example, you can choose to grab a single application window as the first region, and then snag a freehand-specified region off of that for the next portion.

Background color for non-rectangular and multi-region captures - since these types of captures by definition are "irregular," and documents must all be regular in shape, you must specify a color to fill the areas between the captured regions or windows. White is the default color. Drop down the list and pick whatever color you would like to be used for this area.

Play sound when making the snapshot - checking this enables the camera sound HyperSnap-DX 4 plays when you execute a capture (or when you press **Print screen,** if you've enabled it to capture that standard Windows function). The sound lets you know that HyperSnap-DX 4 is "at work" rather than the standard Windows clipboard screen capturing functionality.

Hide HyperSnap-DX window before capturing screen - Check this to have the HyperSnap-DX window automatically hide itself before capturing the screen. Turn this option off only if you need to capture HyperSnap-DX window itself.

Restore HyperSnap-DX window to front after the capture - if you usually like to work with your captures right away after making them, checking this will cause the program's window to "pop up" with the most recent capture as the active document, ready for any work you might want to do with it.

Capture layered windows - Keep this option turned on to capture "layered" windows. These are those oddly shaped objects such as Microsoft's Office Assistant, or other partially-transparent or translucent windows. Probably the only situation when you want to turn this off is if you've got buggy graphics card drivers, which might give you scrambled pictures when capturing with this option on.

Do automatic paste, print or save ONLY if a new capture is different from the previous one - turn this option on if you also have enabled any of the following options:

- Automatic paste or print on *Copy & Print* tab

- Automatic save on *Quick Save* tab

and you want only to paste, print or save new captures if they are different from the previous capture.

Even a slight difference in only one pixel of the new image will trigger the paste, print or save action.

Button tab

This tab sets options related to button captures. You can select if the captured area should be enlarged beyond the button's edges by the specified number of pixels on each side of the button. If you enter negative values, the area will be decreased instead of enlarged. For example, to capture Internet Explorer 6 buttons together with a 1 pixel black frame surrounding them, set each of the *Left, Right, Top* and *Bottom* values to 1 pixel.

You may change all four values by 1 pixel up or down by clicking the [+] and [-] buttons in the middle of the group, or you can reset all values to zero by clicking the *Reset* button.

Crop & scale tab

This tab sets options related to clipping out unwanted parts of your image or automatically reducing the image's size.

Crop image - define the values here in pixels, setting the amount from the left, top, or as a percentage of the width (for example, by 50%). You can pre-set all captures to have the specified region removed automatically.

> **Note:** The easiest way to set this to the desired figure is to define a selection rectangle in HyperSnap-DX 4's workspace and then click the button Set to current selection rectangle. This is much faster than typing in "guessing" values.

Set to current selection rectangle - click this to automatically set the cropping box to the values present inside the current HyperSnap-DX 4 document window.

Scale image - enable this and set options here to automatically reduce (or enlarge) your captured images. This can be either in pixels or in scaling factors, and you can set either values independently. For example, you can scale the Width to 200 pixels wide and the height by 50%. However generally it's easier to understand what the results will be if you keep both values the same.

Keep aspect - check this if you are working the scaling in pixels (it will be disabled if you're working in "scaling factor" and the image will automatically be sized up and down without becoming distorted.

Interpolate colors - check this to apply certain logic to the image that will improve the scaling by making intelligent "guesses" regarding the new pixels that may need to be created as an image is scaled. Sometimes images will appear less "chunky" or "aliased" when scaled if you enable this option. It has the effect of smoothing the scaling operation and making it less noticeable, especially on intermediate scaling functions (small percentages or pixel counts).

View & edit tab

Here you can set how the program views the data as you capture it. Choose from three available options.

Replace the image in HS-DX window with the new capture - this is the default setting and will cause the last image to be removed and the new one put into its place. If you have not saved it, the changes to it are lost at the time a new capture is executed.

Paste each new capture onto the current image - enable this to add each image like a "shingle" onto the previous image. Can produce some interesting results, especially if the successive captures are smaller than the previous captures, or you wish to show the progression of a window's or program's state over time in a "scrapbook" containing multiple images across a page.

Each new capture pasted onto current image is automatically selected as a new object. This means that you can immediately drag it with the mouse to any location over the underlying image to re-locate it. Doing this will not affect that underlying image until you click *outside of* the selection rectangle.

This way you can compose a page or collage of multiple images or captures. Once you click outside of the selected region, or start a new capture, the previous image is permanently applied onto the underlying bitmap and is immovable. You can "unstick" it by selecting **Undo** from the Edit menu if you do this before performing any other operation.

Do not change current image - this will only save the image to the clipboard, a file, or print it according to the settings in the Quick save tab, below. It will not affect the image currently displayed in HyperSnap-DX 4's window.

Copy & print tab

You can define some specific "paths" captured data can take (in addition to being visible in the program's main window.

Copy each capture to clipboard - automatically clears the clipboard and inserts the capture onto it for use throughout the Windows system.

Paste each capture to: - this option will automatically insert the capture into its application workspace. All programs that can read bitmapped data through the clipboard should be able to handle this functionality.

Minimize this window before the capture - causes the selected application you've chosen to receive the capture to be minimized (reducing its visibility) during the capture. Unless you want the receiving application to be in the capture, you should probably check this option when sending images to third-party program.

Automatically print each capture - works just like the old DOS **Print screen** used to before Windows appeared. It sends the desired capture to the default printer you've selected in your printer folder. If you have multiple printers, be sure you've chosen the desired one as your default printer before checking this.

Quick save tab

One of HyperSnap-DX 4's most powerful features, you can quickly build up a collection of captures (for example, during game play, or during other rapid action) by letting the program automatically save each capture and define filenames for it as it proceeds. You can always go back later and re-name the files if you want to use different names. A great time saver when capturing a long list of screens for documentation purposes or to illustrate "steps" of operation.

Automatically save each capture to a file - when checked, this enables the program's ability to save captures without you having to use the **File menu** Save as function. When you enable this, you may want to specify a naming scheme and an "increment" scheme so that each successive file is properly named according to your wishes.

Note that this saves each capture to a file rather than replacing the current capture window with successive captures. If you un-check this captures will be replaced as new ones come in, and only saved to data files if you manually elect to do this.

The default settings here are re-used between sessions, so it's possible to repeat captures later, overwriting the previous sets unless you've moved or renamed them.

Note: If you don't want to use the automatic naming process, you can have the program prompt you for a name, below.

Prompt for name on each capture - if you check this option instead of using the Auto save to function, you'll be asked for a filename after each capture.

Auto save to: - a powerful function that lets you define a logical decision tree to handle multiple captures automatically. Great for snagging the screens during game playing where you don't want to disturb the screen (possibly corrupting it) with file prompt boxes. You need to set certain values for this function to work properly. These include:

File name - this is the prefix for the file names to use during capture. This prefix will have incremental numbers added to it, with these being specified via the other settings of this control group. You can increment file names starting at 1 and stopping at a pre-set number, and so forth.

Change - choose another filename for the Save as function. Browse your system to locate a folder in which to store your auto-saved files, and pick the file name you wish to use as the root of the name.

Increment file name, start at - select a number to begin incrementing group captures, usually 1. You can select any number you wish to use, within the naming limitations of files in Windows itself. Define the **stop at** value, which can be any number larger than the starting number.

Loop from 1 to "stop" number... - check this to repeat the numbering process over and over, overwriting any files that exist within scheme. If you want to capture, for example, a series of game play screens but need to attempt certain "plays" over and over to get it "right," this is a useful setting. You can define the 20 screens you need to capture, grab them as you go, and once you've got the sequence right all you will have is the one through 20 captures you desired (rather than having to sort through 100 captures to find the group you need).

The number of digits in this box---as opposed to the *value itself*--- will dictate the number of digits in any auto-saved file names. For example, the default stop at value of 100 will give you 3-digit numbering. If you only want 2 digits, use a 2 digit stop at number, such as 50 or 99.

Repeat first capture every - automatic captures, great for tracking constantly moving applications, games, and a workflow example such as using an application. You should define how often (in seconds) you wish to capture the screen, and whether or not you wish to ignore (which means continue) errors. You can use fractions (such as .5 seconds), and you can use 0 to disable this feature.

It is disabled by default.

Command line arguments

These options, useful for advanced programmatic applications, can greatly enhance the Power User's approach to capturing. For example, you can set up an shortcut icon to perform a pre-set capture using the values you define in the parameters line on the shortcut's properties page.

If you're a user of programs like Morrie Wilson's *WinBatch(tm)*, or familiar with the Windows 2000 and 98 R2 scripting host languages, you can go even further by creating a combination of a programmatic and pre-set application. For example, you can create a WinBatch script to ask you for the parameters you wish to pass to HyperSnap-DX 4, and it will then use the script to execute the program and pass the desired parameters to it.

As always with every program, you can open a Command prompt and enter a command line:

start/wait hprsnap.exe [parameters]

or

hprsnap.exe [parameters]

Where [parameters] are those values you want to use. The prompt will load the HyperSnap-DX 4 program, and pass it the command line you gave it. In fact, you can even use a tool as simple as Windows NT and 2000 CMD files or, in the case of Windows 9x, plain old batch files to create special capture settings "on the fly."

If you open a prompt and type the name without **start/wait**, you can close the prompt if you wish, or use it for other items while HyperSnap-DX 4 is processing an image.

If you use the **start/wait** parameter, the prompt will stay open and unable to be closed or used *until HyperSnap-DX 4 is finished.* This may be useful in batch files, if your next command must wait for HyperSnap-DX 4 to finish its operation.

If you expect to make heavy use of HyperSnap-DX 4, we think you'll want to take a moment to get familiar with the command line functions. The mouse is nice, but for heavy production, you simply can't beat command line control.

In any case, be sure to change to the folder where you've installed the program and type its name (**hprsnap.exe**), or add that folder to your system's PATH environment. In that case you can type the name from any folder and Windows will locate it for you and run it with the commands you specify.In the examples below, the actual command line and options you will need to type are in bold. Comments about the comments or other "tips" are in plain text. The paths to be used are simply examples, use the paths you wish to use on your own system. Note that you must type the program's executable name, too, which comes before the switch, as in the example above. You can't simply open a command prompt box and type, "-hidden -quicksave,5000," nothing will happen except that familiar cryptic error message with which we used to be familiar: *Bad Command or File Name*. If you use Windows 2000 or NT, you might see, **"'-quicksave' is not recognized as an internal or external command, operable program, operable program or batch file."**

> **Note:** If you're not familiar with the methods used to add a folder or director to your PATH environment, you can find help for this within the Windows help system. Simply select Start, then Help, then search for Path. It will explain how to add a folder to your PATH, which makes

command line use a real joy. Windows 2000 users can add to their PATH without rebooting, Windows 9x users must re-start their systems to add a new folder to the PATH environment.

Command line parameters

- quicksave

Turns on **QuickSave** option, even if it was turned off in previous sessions or by default.

Additional **-QuickSave** options can start with timed auto-save. For example, here are some uses with other parameters:

-hidden -QuickSave,5000,1,5 -snap:w:320:h240 -save:bmp f:\tmp\test

-iconic -QuickSave,5000,1,5 -snap:w:320:h240 -save:bmp f:\tmp\test

-QuickSave,5000,1,5 -snap:w:320:h240 -save:bmp f:\tmp\test

Will start the program with a hidden, iconic or opened window, respectively, and will repeat the snap every 5000 ms (5 sec), increment the file name starting counter at 1 and will stop when the counter reaches 5.

To disable adding numbers to the file name, set the second number in **-QuickSave** to **0**, for example **-QuickSave,5000,0,5** will save a capture 5 times to the same file. To disable the max count function (the last number to capture before stopping), set it to 0.

The capture will be repeated indefinitely, or until you press the **stop capture** hot key (default for which is F11).

-fixed_title

Displays a fixed title **HyperSnap-DX** only (program will not display the file name or the picture size in the window title bar). This may be needed if you want to "send keys" to the HyperSnap-DX 4 window from Visual Basic or some other applications.

-hidden

Runs the program with its window hidden, so you can operate it only by using the hot keys. You must have enabled **Quick Print**, or **Copy each capture to clipboard** in the Capture settings tabs, earlier, or you could use this mode with the Quick save tab's Automatically save each capture... option enabled, too.

Otherwise you won't be able to choose files or direct output to any useful location.

-dumpopts

Read the program's registry entries, and dump them to an INI file in the program's home directory. This is helpful for debugging problems (you can send the INI file in an e-mail to use for user support issues, if we request it).

-readopts	Read the program's registry entries from the file **HSDX.INI** and then save them to the Windows system registry. A great way to immediately set the program back to all defaults. For example, if you install the program, then run it once, the registry entries will be set to the defaults. If you then use the **-dumpopts** option, above, to create HSDX.INI, and keep that file in a safe place, should you wish to set the program back to the start-up status, this option will do that in one step. Mainly a technical support tool, and it can repair a corrupted registry entry as well.
-initfrom:filename	You'd use this option when you start HyperSnap-DX 4, for example: hprsnap.exe -initfrom:c:\hypersnap\hsdx3.ini. A quick method of supporting multiple hot key configurations or other options, such as on systems where multiple users prefer the program to operate differently. If you create a shortcut that loads the program using this switch and a valid INI file you've created with the **-dumpopts** setting, it's painless to have the program set up differently for many users on the same machine. Changes you make to its settings in this case do not go back to the registry (as normal) but they are written back to the INI file name you used to load it.

-snap

Capture a screen (or a portion) one time only, to immediately print or save it, and then exit. The HyperSnap-DX 4 window isn't displayed. This option takes several sub-options you must separate with a colon. Here are some examples.

hsdx -snap:x60:y150:w200:h100 -save:bmp test.bmp

:x is X pixel coordinate from which to start the capture, counted from the left. If omitted, 0 the program will assume 0, the absolute left-hand of the screen.

:y is Y pixel coordinate from which to start the capture, counted from the top. If omitted, the program assumes you want a value of 0.

:w is width of the area to capture, in pixels. If omitted, the program assumes the area from **:x** to the right edge of the screen should be captured.

:h is height of the area to capture, in pixels. If omitted, the program will capture the area from **:y** to the bottom of the screen.

:window allows the user to select with the mouse the window to capture.

:region allows the user to select with the mouse a rectangular region to capture.

:awin will capture the *currently active* window, including frame and title.

:acli will capture the currently active window without the title and frame (called the "client area").

-snapi

Works like **-snap**, above, but it inverts the colors of the captured image.

-open:[filename]
or
-open [filename]

This option will run HyperSnap-DX 4 and open the specified file (if it exists, and is in a supported graphics file format). It will then perform the action set by any following command line options, such as -print or -save---perhaps in a different format as a quick way to convert one format to another. You can use this to print several graphics files in batch mode or to translate quickly between varying formats. The program exits when all prescribed operations are complete. Here are a few examples:

To translate test.bmp to test.gif:

hprsnap.exe -open:test.bmp -save:gif test.gif

To print test.jpg file to the default system printer:

hprsnap.exe -open test.jpg -print

-scale:[percent]

Scale (resize) the image captured with -snap command line option or opened from a file, by the percent factor specified. For example:

hprsnap.exe test.jpg -scale:50

will open test.jpg file scaled to 50% of its original size, and:

hprsnap.exe -open test.jpg -scale:50 -save:jpg test.jpg

will open test.jpg file, scale it to 50% of the original size, save to the same file name and exit immediately. This latest form could be used to scale an entire directory of images with the **for** command of Windows batch language like this:

for %f in (*.jpg) do start/wait hprsnap -open %f -scale:40 -save:jpg:q95 %f

will resize all JPEG images in the current folder to 40% of their current size and save them under the same names with 95% JPEG quality setting, overwriting the originals. To have the files saved in another folder, and preserve the originals, you could specify the folder after -save e.g. **-save:jpg:q95 c:\temp\%f**. This command could also translate the format, e.g. still opening JPEG files, but saving to PNG instead, the last part could be:

-save:png c:\temp\%f

-invertbw

Inverts black and white colors on the initial image in HyperSnap-DX window, no matter if it's opened from a file specified on a command line, or snapped with -snap option.

-print

This function was designed to be used after **-snap** to force the printing of the captured picture. It takes several sub-options, all of which should be separated with a colon.

:l print in Landscape mode. Default is portrait.

:inv invert black and white.

:bw print black and white colors only.

:fr draw a frame around printed picture.

:sNN scale, where NN is % of the size, default is 100%.

:af auto-fit the picture to fill the whole page (but preserving the aspect ratio).

pd display Print Dialog, to select the printer etc.

Prints to the default printer if :pd omitted. Here's an example:

hprsnap.exe -snap -print:l:fr:s75

This example will snap the whole screen and print the resulting capture in landscape mode, with a frame, and scaled downward to 75% of the original size.

-save

This was designed to be used after the **-snap** option to save the file to a supported file format. The very next argument should be the filename to use for the saved data, including the extension. For example, **snap.bmp**, **snap.gif**, and so forth. Here's a list of possible formats as well as some examples using them:

:gif save as a GIF file.

:gif:i save as Interlaced GIF file.

:jpg save as JPEG file with default quality of 75%.

:jpg:qNN save as JPEG file with quality NN% (where you replace NN with a number such as 90, representing the quality factor to retain).

:jpg:p save as progressive JPEG file (:qNN may be added).

:bmp save as BMP file (this is default, may be omitted). Bitmap pixel depth is the same as screen's.

:bmp:c1 save as 1 bpp bitmap.

:bmp:c4 save as 4 bpp bitmap.

:bmp:c8 save as 8 bpp bitmap.

:bmp:c24 save as 24 bpp bitmap.

The program accepts other file types as **-save** formats. Here's a complete list of *all* file types accepted during this command. These values should appear after the **:** in the command line:

bmp, gif, jpg, tif, cmp, cal, fax, eps, img, raw, ica, pict, mac, msp, pcx, ras, tga, wfx, vfm, wpg, png

With all of these file types, the following options are accepted, if valid for a given file type. If not, they will be ignored:

:a append the picture to the specified file, if file format permits this. For example, GIF and TIFF files support appended frames to an existing file.

:c1, :c4, :c8, :c24, :c32 represents the color resolution to use, in bits per pixel.

:i, **:p** telles HyperSnap-DX 4 to save the file using either interlaced (GIF) or progressive (JPEG) format.

:qNN quality persistence in %, valid for jpg and cmp files. The larger this number, the higher quality the final file will be.

Here's more examples:

Snap the whole screen and save in BMP file in the directory c:\tmp\.

hprsnap.exe -snap -save c:\tmp\test.bmp

-onewin

If you run a second copy of HyperSnap-DX with this switch, it will only activate and bring to front the first copy, and the second one will exit instantly. If you run a second copy like this:

hprsnap.exe -onewin filename

it will cause the *first* copy to load the picture stored under the specified **filename** and then activate or bring to front that copy. The second copy, after sending the appropriate command to the first instance, will exit instantly.

-defprn:prn_name

This command makes HyperSnap-DX 4 use a printer *other than the "system default"* as its default printer. The "**prn_name"** part must be the exact same name as listed in your system Printers folder. The entire command must be enclosed in double quotes if the name contains any spaces. If the name is one solid block without spaces, you can skip the quotes. Example:

For a local printer name that includes a space:

"-defprn:HP 2000C"

For a network share printer name without space:

-defprn:\\gandalf\hp855c

-ra

Sets the program to restore advanced options to defaults when the program is restarted. These advanced options currently include Capture Settings, Crop & Scale enable mode, and View & Edit selection. Normally restoring these options in other than their default state can confuse novice users of HyperSnap-DX, so you use this command line argument to help prevent confusion.

-exit

Causes HyperSnap-DX 4 to exit after it's finished with the requested operation. For example, **-snap** without the **-save** or **-print** commands. Normally HyperSnap-DX would stay running (with its window opened or hidden) in that situation. By using **-exit** you make sure it will quit when the command line tasks are through.

User support

Before contacting us for technical support, please check first the "Frequently Asked Questions (FAQ)" list at our web site. The answer to your question may be already there!

Support for HyperSnap-DX is always close at hand. An E-mail message will get the quickest response. Be certain to provide as much background information as possible.

Include (at least) the following information if you encounter a problem with the software:

Your operating system, for example Windows NT 4 or Windows 2000.

How much RAM your computer has installed.

Your computer's CPU and speed (for example, Pentium III, 750MHZ).

Your video card's color depth and resolution. You can usually find this information by right-clicking the wallpaper area on your desktop, picking Properties, and then examining the tab that's called Settings. A typical setting might report, "1024 X 768" with the color drop-down listing, "True Color."

A concise description of the problem and exactly what you did to get it to happen. If you can get it to repeat at will, please give us every step from beginning until the end, that will help us replicate your problem.

Note: You don't need to e-mail us graphics you had problems with, or screen captures, or other large items unless we request them from you. Please wait for us to request them *before* sending such matter in your support requests.

We welcome your comments and input for future releases of HyperSnap-DX. Write to: **support@hyperionics.com**.

If you have problems getting to us via the Internet, or you don't have net access (for example you got the program from a PC Magazine or other shareware CD-ROM), you can always mail your questions or comments to us.

Send your mail to:

Hyperionics Technology, LLC
3146 Chestnut Street
Murrysville, PA 15668, USA

And visit our World Wide Web site to download our latest releases, read important announcements, and find out more information about HyperSnap-DX 4 and our other fine products: **www.hyperionics.com**.

Frequently Asked Questions page

We've moved the Frequently Asked Questions (FAQ) page from the on-line help and to our web support site. It changes so frequently, that we decided to always have the most up-to-date list of questions and answers, and that meant posting them on the web where we can change them as often as required. You can get to this page by following the link below:

> **Important!** You must have an Internet link to use the FAQ page reference, below. If you don't, Windows will issue an error. If you have one, but have not yet connected, Windows will bring up the dialer and request that you connect in order to follow the link. Your default browser will be used to jump to the *Hyperionics* HyperSnap-DX 4 FAQ page.

Web support links

You can jump directly to our support sources on the web by clicking any of the desired web page locations that are listed below. As you might suspect, the most up-to-date source for support, known issues, and new version information is always available on our web pages.

We'd like to encourage you to visit our worldwide web site frequently to check for new releases, entirely new products, as well as promotional efforts designed to better serve our users.

Click the description of the page you'd like to visit, and (as long as you have Internet access and a properly-installed browser) you'll be taken directly to that page. If you're not connected to the Internet, but have auto-connect enabled (most folks do) Windows will dial your Internet service provider and create a new connection for this purpose, then take you to the page.

> **Important!** New sites will appear here as we add to our web page and then update HyperSnap-DX 4. And as Hyperionics grows, we'll do our best to make the support we offer to our users the best of any shareware firm in the market.

Users with fast high-bandwidth connections like T1 or DSL will find this works almost like an extension of the help file, it will load virtually instantly into a new browser window.

Web link list

These sites are available for use by all HyperSnap-DX 4 users (registered or not). Feel free to drop by and visit any of these should you need help, want more information, or wish to investigate any of our other products.

FAQ page: http://www.hyperionics.com/hsdx/hs4faq.htm.

Download page: http://www.hyperionics.com/www/downloads.html.

HyperSnap-DX 4 product information: http://www.hyperionics.com/hsdx/.

Uninstalling HyperSnap-DX 4

If you're reading this because you've had a problem with the program and have decided to remove it, ***please stop!*** Before you remove it, please contact us and tell us what the problem was, perhaps there's a simple solution for it. We want to hear about it and we want to help you solve it so you can successfully use HyperSnap-DX 4.

Contact us at the points listed in the **User support section**.

If you're reading this because you've bought a new machine and want to sell your old system (and properly so, you're removing your licensed software so as to not violate your single-user license), removing the program is exceedingly simple. Follow the directions below.

If you wish to repair a damaged installation, see the help for that, below.

Removing the program

Click on the Start menu, then **Settings**, then **Control Panel.**

Double-click on the **Add Remove Programs icon** in Control Panel.

Scroll through the list until you see the entry for HyperSnap-DX 4. Once you locate it, click on the button **Add / Remove**.

> **Note:** Depending on your Windows version, this feature may be labeled or arranged slightly differently, for example Windows 2000 shows it as "Change/Remove."

A dialog will appear asking you to confirm this operation and offering three selections: Automatic, Custom, Repair.

If you wish to remove the program, choose ***Automatic*** and press Next.

The uninstaller will remove the program and all icons, shortcuts, etc. from your system. Note that if you changed the icons in any way (for example moved them to a new group or re-named them) they will not be removed.

Any files you've created and left in your HyperSnap-DX 4 directory will remain behind, and in which case you will have to manually delete these.

Repairing a damaged installation

If something has damaged your HyperSnap-DX 4 installation, you can repair it using the procedure here.

Click on the Start menu, then **Settings**, then **Control Panel.**

Double-click on the **Add Remove Programs icon** in Control Panel.

Scroll through the list until you see the entry for HyperSnap-DX 4. Once you locate it, click on the button **Add / Remove**.

> **Note:** Depending on your Windows version, this feature may be labeled or arranged slightly differently, for example Windows 2000 shows it as "Change/Remove."

A dialog will appear asking you to confirm this operation and offering three selections: Automatic, Custom, *Repair*.

Choose ***Repair***. The installation will request may request the contents of the original archive file that you downloaded or received on CD.

Follow the prompts that appear and the installation will be automatically repaired, and all missing files will be replaced.

Licensing HyperSnap-DX 4

You can license the program right from our web page: **www.hyperionics.com** - click the "Hyperionics Store" or "Buy Now" link there. We offer many different ways to order, including secure web forms, phone, fax and mail ordering, and processing of corporate purchase orders. However, since the ordering information is likely to change in the future, and the copy of HyperSnap-DX 4 you downloaded may be several months, or even years old - we require you to access our web page for the most current ordering information.

Important: **Note that single-user registrations apply to one individual only, and running multiple copies concurrently on multiple systems requires the purchasing of a license for each computer system on which the program is to be installed. However you can install it on multiple systems if only one copy at one time will be running. See the Legal section for the exact terms of license.**

Non-US users should examine our list of International Distributors, there might be one close to you. You should also go to international distributors, if you are using a version of our software translated into foreign language.

Available license packages

We sell single user licenses for home and corporate use (with volume discounts, when applicable), and corporate unlimited site and world-wide licenses.

Our site license is valid for up to 500 users, all working for the same company/organization and at the same physical location.

Our unlimited world-wide license is valid for any number of users, all working for the same company/organization, and located anywhere in the world.

To find the current prices, please visit us on the web at http://www.hyperionics.com.

International distributors

For the most current list of Hyperionics international distributors, please visit our Web site at **www.hyperionics.com**. This list may be of interest mostly to those who need to pay by check. Hyperionics can only accept checks drawn on a U.S. bank, but you may use local checks with our non-U.S. distributors. Users in the U.S. should see the previous section, and if they wish to pay by check, print and fill out the registration form they can get to from that section.

Other Hyperionics Technology LLC software

In addition to this fine product, we make several other utilities. Drop by our web page at **www.hyperionics.com** which always contains links where you can download the latest versions of all of our programs or those programs that meet our standards so that we're confident enough in them to offer them for sale through our site.

At the time this file was written, here's a list of software we either have authored or sell on our site.

Available products from Hyperionics Technology LLC

HyperCam - another quality product from Hyperionics, that allows you to record the action from your Windows 9x or NT screen as an AVI movie. You can include cursor movements and sound, and take advantage of many other options. **HyperCam** was designed with the same attention to quality and detail as was HyperSnap-DX.

FileBox eXtender - this product enhances the standard Windows file dialogs in a totally new, elegant and non-intrusive way---by placing small icon buttons in the title bars of these windows. The buttons provide easy one click access to your favorite folders and documents as well as to a list of recently used folders.

Curtain calls

This section lists the people behind the software, and provides a tip 'o the hat to people who have helped us in special ways during the development of this utility. Without the support of our users and their suggestions, HyperSnap-DX 4 would not be as good a tool as we think it is.

HyperSnap-DX 4 was designed and written by

Greg Kochaniak of **Hyperionics Technology, LLC**

www.hyperionics.com
gregko@hyperionics.com

Program documentation and some custom interface graphics created by

Todd Henschell of **Dangerous Cybernetics**

the_scrazner@hotmail.com
home.pacbell.net/scrazner

Special thanks to the following people:

Mark Anderson, **http://www.yeardley.demon.co.uk**

Samuel N. Ceccola, **http://www.jspcservices.com**

Mike Healey

rap@aci.net

Martin Sperlich

Karen Stout

Legal information

HyperSnap-DX 4 is marketed as a fully functional trial version. Its only limitation is that the screen captures it makes are "branded" to indicate you are using it during a trial period. After thirty days of use you must license this software to continue to use it legally.

> **Important!** If you don't register the software, it must be removed from your system ***before the thirty day period of usage expires*** or you are in violation of our copyright. Your permission to use the software in order to examine it is strictly limited to this fixed period.
>
> **Note:** You can find purchase information in the **Licensing section** of the help file.

The following copyrights and trademarks are the property of *Hyperionics Technology, LLC*, and All Rights are Reserved.

HyperSnap-DX 4, and ***Hyperionics Technology LLC***

All associated documentation and written materials that accompany this program are the property of Hyperionics Technology, LLC, and are Copyright (c) 2000-2002.

Written documentation for this program was created by *Dangerous Cybernetics*™ and contains original graphics used by Hyperionics with license. These graphics may not be extracted and used by any other parties or individuals for any commercial purpose.

Anyone distributing the shareware version of HyperSnap-DX 4 for any kind of remuneration must contact Hyperionics---*prior to including it within any distribution media*---at the address below for authorization.

Hyperionics will automatically grant such authorization to distributors recognized by the (ASP) as adhering to its guidelines for shareware distributors. Such distributors may begin offering HyperSnap-DX 4 immediately without prior contact to gain permission.

No other party besides *Hyperionics Technology LLC* is authorized to grant permission for vendors not recognized by the ASP, and such permission must be requested by, and will be granted by, writing. (Such writing might be E-mail or via FAX or via traditional mail, it depends on the method the vendor uses to contact us, of course.)

However in any case, and with all vendors, Hyperionics Technology LLC must still be advised that the program has been made available to the public so that the distributor will always be provided with up-to-date versions of HyperSnap-DX. Upon receipt of the latest version, all vendors are to replace their previously included versions with the latest version in order to keep their permission current.

Other copyrights

Other Copyrights and Trademarks (such as DirectX, Direct3D, 3dfx) used within the program's UI and throughout this help system are the properties of their respective owners, and as such, have no connection with Hyperionics whatsoever.

OMBUDSMAN STATEMENT

Hyperionics Technology, LLC is a member of the Association of Shareware Professionals (ASP). ASP wants to make sure that the shareware principle works for you. If you are unable to resolve a shareware-related problem with an ASP member by contacting the member directly, ASP may be able to help. The

ASP Ombudsman can help you resolve a dispute or problem with an ASP member, but does not provide technical support for members' products. Please write to the ASP Ombudsman at:

ASP
157-F Love Ave.
Greenwood, IN 46142
USA

Or FAX 317-888-2195, or send email to **omb@asp-shareware.org**.

DISCLAIMER - AGREEMENT

Users of HyperSnap-DX must accept this disclaimer of warranty in order to use the project. By licensing it, you agree to accept the terms of use specified herein.

HyperSnap-DX 4 is supplied as is. The author disclaims all warranties, expressed or implied, including, without limitation, the warranties of merchantability and of fitness for any purpose. The author assumes no liability for damages, direct or consequential, which may result from the use of HyperSnap-DX. User assumes all liability with respect to usage of the program and recognizes that under no circumstances will Hyperionics Technology, LLC be held accountable for any loss of data, work product, time or productivity that may occur as a result of their usage of said program.

Translated: if HyperSnap-DX 4 eats that rare bitmap proving the other-worldly cause of the Bermuda Triangle that you were going to sell to a tabloid paper, or turns all of your images bright purple or orange with purple streaks, or causes strange problems with other software or hardware that begin to resemble interference from alternate dimensions (no matter if these appear to be from the 7th dimension or the 27th dimension), we're not responsible for the results.

Nor will we provide compensation in any manner or fashion for same. We'll feel very badly, indeed, about the purple images and the lost Bermuda Triangle photos, and of course the dimensional tear that originated in your hard disk will cause us a great deal of worry, but we will not be held responsible for these events. Thank you for your understanding.

Single user license terms

License to use this program is provided *only upon our receipt of payment of the required fee,* and such license does not give the user a right to disassemble, reverse-compile, reverse-engineer, or otherwise examine the trade secrets contained in the program. Your registration numbers or your registered version of the software should not be distributed to any third party.

This software remains the property of Hyperionics Technology, LLC and is used only under revocable license.

Your license covers the version or versions of the software as specified at the time you received it. All versions of the same "master" number (for example, 4.3, 4.5, 4.7---all 4.anything) are covered by your license. If you download and install a "point" release and need a new number because of changes to the program, please see the sections of this file regarding User support, and contact us. We'll provide you with a free upgrade to the "point" release.

Your license, should you purchase one, is similar to that of a book. You may use it on as many computer systems as you may own (be that one or two hundred). However the way you use the software should be such that only one copy at a time may be in use at one time by the licensee.

For example, many folks have a desktop and a laptop. You may install HyperSnap-DX 4 on both and license both copies, but you may not use the program on your laptop and your desktop at the same time. Think of it as you would a book: you can read it anywhere you like, but you can only read one copy of it at a time.

Hyperionics Technology, LLC is a member of the *Associate of Shareware Professionals* and follows the bylaws as set down by that organization.

Site license terms

License to use this program is provided only upon our receipt of payment of the required fee and your receipt of the proper license numbers.

Note to site license users: HyperSnap-DX 4 is supplied as is. The author disclaims all warranties, expressed or implied, including, without limitation, the warranties of merchantability and of fitness for any purpose. The author assumes no liability for damages, direct or consequential, which may result from the use of HyperSnap-DX. User assumes all liability with respect to usage of the program and recognizes that under no circumstances will Hyperionics Technology, LLC be held accountable for any loss of data, work product, time or productivity that may occur as a result of their usage of said program.

We offer two types of site licenses that cover varying types of usage, and one or the other should suite the purposes of medium to large business usage.

Limited area site license - purchasers of this type of license may use up to 500 copies concurrently, for their employees/associates located at one physical location.

Unlimited worldwide license - this license covers worldwide corporate area no matter the locations or numbers of users. If your company is likely to expand beyond the dimensional restrictions of the other site license's terms, this option is the best for you. Not only is the upgrade cost between versions fairly low, the fact that you do not have to track locations and ranges from the home office makes it a real winner.

We'd like to encourage all corporations looking for a site license to purchase this license type, which will greatly simplify their use of the program.

Technical terminology

If you're new to graphics, or making screen captures, or just PCs in general, you might find some of the terms used here a bit confusing. This list will give you a brief definition of the terms used repeatedly within this file, in alphabetical order. This list isn't intended to give you everything you need to know about every technical term in use within the document, but it should help most users avoid massive confusion.

3dfx A maker of advanced video chipsets and video boards used to rapidly draw 3D content onto your screen. These include the Voodoo product line and other products.

Bit depth The amount of colors a picture contains, typically limited to the values of 1, 4, 8, 16, 24, and 32, representing monochromatic, 16 color, 256 color, 16 million colors, and "true color" format. Files with 24 bit color typically can display more colors than most people are able to detect.

BMP (bitmap) A file format developed by Microsoft to display image content. It is a non-compressed, fairly space-wasting format that's used for wallpaper, and also for user-interface graphics such as toolbar glyphs. The biggest advantage to this format is that it loads fast into most applications supporting it, and it supports virtually all color depths.

Border Refers to the region "around" an application window. It's the area you "grab" onto with your mouse when you want to size a window.

Button A control device used by software to actuate a function. It may appear to actually "depress" when clicked, which is an illusion caused by the operating system.

Chroma Refers to "color" or the color "palette" of an image, and sometimes to the color "balance" of an image when used slightly incorrectly. The "chroma" of an image is a compressed reference to its chromatic content, or it's "color content."

Clipboard Windows has a built-in "holding space" for all sorts of data (both text and graphics) that was designed as an easy way to get data from one program to another, possibly incompatible program. For example, you cannot directly edit a painting with Microsoft Wordpad, but you can edit one in Paint, copy it to the clipboard, and then paste it through the clipboard into Wordpad so it appears in your document. An information interchange device, basically.

Color depth The same as "bit depth," essentially, as mentioned above. Refers to the amount of colors in an image.

Color palette The "table" of colors used to draw an image. In some formats, this may be limited to a certain range (for example, GIF files are "palette-based" images. Each pixel contains, essentially, a pointer to a certain "place" in the palette. If you change the palette, that pointer will now direct the pixel to a different color. This is called "palette-shifting." The larger the palette, the more colors the image can display. Not all image types use palettes, some contain within their pixel data a direct color reference rather than a "lookup" value.

Control A class of devices used on software (such as a button or list box) that allows you to make the software "do" things. Everything you "touch" with your mouse on software (buttons, lists, checkboxes) are called "controls" by programmers.

Crop To cut a region from an image, or to trim off excess material from around a more desirable area. Sometimes incorrectly used when the word ***zoom*** is a better choice (to "crop in" on an object, for example, is not really accurate).

Cursor The pointing device on your Windows screen, it may be an arrow or something else. It provides a way for you to interact with software "controls" and make the system behave the way you wish it to. (Well, most of the time.)

Desktop The background of your Windows screen. It's the area where you put icons that are not in your Start menu, and the area where you may apply wallpaper, if you have done that.

Direct3D An accelerated display technology developed by Microsoft. The idea behind it was to provide a list of tools for game developers to allow them to create 3D content without having to directly access the display hardware, something Windows likes to prevent for reasons having to do with stability.

Directory The original name for "folder," which is a place where you store files and even other directories. Microsoft changed the name (or tried to) to "folder" to sound more like the Macintosh when they released Windows 95.

DirectX An accelerated sound, video, and game controller technology developed by Microsoft. It allows game and other software developers to have high-speed, closely-timed access to the hardware like they used to have within DOS, but without direct access to the hardware, something not desirable within a multitasking operating system.

Dithering A process of applying a dot pattern to an image, usually to attempt to make an image reduced in color to appear more closely like the original. The idea is that dots next to each other can affect how they appear, and by adjusting the patterns, the final effect may "simulate" colors no longer present within the image.

DPI (dots per inch)	The number of pixels the image has per inch of content. The higher it is, the higher we say its "resolution" is. An image with 300 DPI that is 300 pixels across will print out at 1 inch on the page of a printer with 300 DPI resolution. The relationship can be changed by other settings, but basically this refers to a device's capability (such as a screen or printer) or the data format of the file itself.
Drop-down list	This is a control in Windows where if you click a downward-facing arrow, you're presented with a list of choices. These might be file format choices (see HyperSnap-DX 4's Save as dialog, for example) or a list of hard drives on your system.
FAQ	Shorthand for "Frequently Asked Questions" and often refers to a list kept by software manufacturers or others who are tired of answering the same old questions. They send curious users here first to save time. Best tip: read any FAQ page put up by a vendor BEFORE contacting that vendor!
File format	The actual data-type used by the file in question. In our case, it might be JPG, GIF, BMP, and so forth. It refers not to the "look" of the image (for example, a Portrait format image) but the binary encoding method used to create the file on your hard disk.
Folder	Microsoft's attempt to steal the Macintosh name for a directory. It's where you put files. Long-time users still call it a directory, and pretty much ignore "folder." It's a good way to tell how long somebody has used a computer, actually. See if they call this a directory a folder or a directory.
Gamma	The "brightness" content of your image. Not the same as just "brightness," but the balance of white on the overall image. An image with high gamma may appear very bright, but also may appear very washed out, even faded. An image with low gamma may appear "blocked up," and difficult to see.
GIF	Graphics Interchange Format. A file format developed by CompuServe and used a lot on the Worldwide Web and elsewhere. It is a palette-based format that supports no more than 256 colors, and it best for images containing solid-color areas. JPG is superior for most photographic content.
Glide	A technology developed by 3dfx for displaying 3D gaming or other content. It's a programming interface that allows game developers to write to 3dfx hardware more easily.
Hard disk	A spinning metal platter (sometimes multiple platters) that's inside virtually all computers and used to store data.
Hot key	A term referring to a special key combination that can cause a program to perform a specific operation or process without taking multiple steps. HyperSnap-DX 4 uses them to trigger screen captures of various types.

Hue The balance of colors within an image. Refers to the relationship of the key colors of an image, just like how the "tint" control on some televisions works. Hue refers to the "cast" of the colors. It can sometimes be restricted to RGB hues (for example, saying an image has a Red, Green, or Blue cast) because many file formats are considered to be RGB-based.

Icon The little picture on your desktop, start menu, or a program's toolbar that's used to identify the program or function that will launch when you click it (or double-click it). For example, the icon for Internet Explorer is a blue E.

INI file A special file used by some software to hold important settings and other information. Windows itself used to be wholly based on two INI files, SYSTEM.INI and WIN.INI, but with the release of Windows 95 the system began to be based on the more fragile (but more powerful) database-format "registry." HyperSnap-DX 4 can use INI files, see the command-line help section .

Jpeg The "true' extension for JPG, a common file format used for photographs, and throughout many web pages. It can be a true-color format, has the option of superb file compression (reducing size) and can produce very tiny files that still look quite good.

List Within Windows, the items that appear when you click a "drop-down" button and are given some choices. HyperSnap-DX 4 uses a list within the Save as dialog for possible file format types (for example).

Luminance Often referred to as the "brightness" of an image, it's the overall "light" within an image or scene. If you turn up or down the brightness of your television set, you're affecting the luminance, but not the *color* of the image. Gamma represents luminance values.

Maximize Here refers to the behavior of an application within Windows. When it's "maximized" it means it has been set to be "full screen" and it's the only application you can see. It covers the entire desktop, all of your icons, and all other programs except for (in most cases) the task bar.

Memory Sometimes refers to RAM, which is the chip-based storage space your computer uses to make its calculations. Its best not to use "memory" to mean hard disk space, you can confuse technical support staff. Say, "hard disk space," and "RAM," or "memory." But it's best to stick with the technical terms for both, leaving "memory" to the elephants.

Minimize Means an application's window has been "sent down" to the task bar or (in the case of HyperSnap-DX 4) to the system tray area where the clock lives.

Monochrome	A black and white image. Not to be confused with "grayscale." Black and white is often used incorrectly, for example Black and white photos are actually grayscale photos. A true black and white image is made up only of dots of either black or white, with nothing else. How tightly they are packed, or how loosely, creates the illusion of other shades.
Overlay	A technology where a software application, like a DVD player, will "paper over" part of the Windows screen with content it is providing. It will use its window space to directly write content to the screen, bypassing Windows itself for this. Overlay functions are common with desktop TV tuners and DVD players, all of whom must show data at a rate much faster than Windows would be able to do, so Windows lets them "clip out" a region and then handle it themselves.
Palette	The table of colors used by certain image types, such as GIF. These files contain "pointers" to a location on the palette rather than actual pixel color values. If you change the palette, the image will change right with it. Sometimes the palette is stored internally, and in other (rare) cases, the palette can actually be loaded from another file and applied to the image itself, changing how it appears. Think of it as each pixel having an address to a house in your neighborhood. If you re-paint one house yellow, the pixels in the image pointing to that house will turn yellow.
RAM	Random Access Memory. It's the chip-based storage space used by your computer to run itself, and to execute programs. Generally, the more you have, the faster things run. It's best to call this RAM and not "memory," to avoid confusion.
Rectilinear	A region defined within a rectangular or straight-edged space. The box you draw when you crop an image is usually rectilinear in nature.
Region capture	To capture one or more "regions," or areas of your screen, application, or desktop. It means to only pick a part of what you can see rather than all of it. A useful tool when you only want to capture the important part of the screen.
Resolution	The resolution of an image is its dimensions in relation to its DPI values. An image of high resolution means it can contain "fine detail" and typically has a high DPI value as well as a high pixel count. A low resolution image typically has a low pixel count, and a low DPI value. Screen resolution is usually very low, only 96 DPI. Some printers are now printing well above 1,000 DPI. This means if you send an image that covers 1 inch of your screen to this printer, it's only going to cover a tenth of an inch on paper.

Saturation	Refers to how much "color" is in an image. A highly saturated image contains a lot of color, and may appear to be "overly-colored." Think of it as if it were paint on a brush. A brush dipped into paint only lightly will produce strokes of light color. A brush that's saturated will produce rich, thick color.
Scale (resize)	Refers to changing the dimensions or resolution of an image. This can be to make it print larger, smaller, or appear on the screen smaller or larger.
System	A common term to refer to your computer, or the operating system itself. It's a generic term, used to cover both the hardware or the operating system, or both working (with luck) in unison.
System tray	A feature of Windows 95 and later where you see a small recessed area in the taskbar that shows you a clock, and sometimes other icons. This allows you to keep tabs on running applications without them hogging space on the main taskbar. HyperSnap-DX 4 can be set to minimize to the system tray if you like.
Task bar	A feature of Windows 95 and later where icons are no longer minimized to the desktop, as they were in previous versions, but are sent to this window-within-Windows. **Note:** By the way, here's a usability tip: you can grab any blank area of the taskbar (not occupied by a program icon) and drag it up to the TOP of your desktop. If you do this, you'll save a lot of mouse motion---because all applications have their menus at the top, you'll only have to move the mouse a short hop to get to the taskbar rather than the huge motion all the way from the menu to the bottom. Try it, you'll like it!
Toolbar	Sometimes called "button bar," it's a row of icons within a program that contains buttons. When you click the buttons, the application will perform various functions. With most programs (including HyperSnap-DX 4) if you hold the mouse still over a button you'll see some brief help for that button.
True-color	Commonly used to refer to files that contain 16 million or more colors. This number of colors (and beyond) is essentially more than the human eye can see, so supporting more in a file format isn't practical or even logical.
Video buffer	Your computer's video board has some chips on it where it stores data it needs to display images. In the case of 3D accelerated hardware, this data buffer may contain entire screens. HyperSnap-DX 4 is able to "grab" data from this buffer when it captures 3dfx screens, for example. By storing the data here, rather than re-calculating it again, the video board is able to quickly re-supply the image content much faster than if it had to re-create it from scratch.

Wallpaper	This is the name of images that some people apply to their Windows desktop. To change your wallpaper, right-click your Windows desktop on any blank space (not on an icon) and pick Properties. There's a Background tab, and from this tab you can choose from available files to use as wallpaper.
Web	The shorthand name of the Worldwide Web, the thing on which we are all wasting far too much time.
Window	The place where a Windows application displays its data, but also in a technical sense, every part of that application is called a window. Programmers know that Windows itself calls every button, toolbar, and so forth a "window," and even gives each of them a "window name." Because of this, HyperSnap-DX 4 is able to capture even the smallest controls, because they are all "windows" in that way, and it can get their names---and content---from the system individually.
Window capture	This means to capture the entire window of an application, including its border (usually) and title bar.
Windows	This is the thing on which you are trying to get some work done. There have been many versions, going all the way back to 1.0 (which nobody used) through 2.x (which about fifty people used) and on to the current versions, Windows 9x, NT, and Windows 2000.