

InControl Tools Help

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What are InControl Tools?

InControl Tools is a set of utilities and features for everyday use. First, it provides a common graphical user interface for configuring your Diamond Computer Systems, Inc. products. Second, it adds productivity tools including real-time pans and zooms, on-the-fly resolution switching, Energy Star Power Conservation settings, and desktop management control to the Windows desktop.

This help file is designed to answer questions on how the InControl Tools operate and to provide additional information on how some of the functions can be used.

InControl Tools is divided into six major modules: Display, Desktop, Hotkeys, Audio, Video, and Power. Each module has several options you can choose and modify.

Many of the tools were designed around the daily needs of Diamond Computer Systems' employees. If you have suggestions for additional InControl tools or improvements to existing tools, we'd love to hear about them. Send your comments to:

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Select Your Display Monitor

Using the Display option, you can specify your the display monitor attached to your display controller. If your manufacturer and model are not listed in the option list, you may select "(User Defined Monitor)", and define the capabilities of your monitor. See How To... [Create a User Defined Monitor](#).

To select your display monitor

1. In the InControl Tools Configuration dialog, choose the Display Icon from the Options group.
2. Select the manufacturer and model of the display monitor attached to your display adapter from the Manufacturer & Model option list. If the manufacturer and model of your display monitor is not listed, refer to Creating and User Defined Monitor.
3. Choose the OK button to save the new configuration, otherwise choose the Cancel button to abandon the changes.

After change your monitor selection you will need to [Configure Your Desktop](#).

Create a User Defined Monitor

Using the Display option, you can specify the capabilities of your monitor if the manufacturer and model of your display monitor is not listed in the Manufacturer & Model option list. When this option is selected, the additional function in this dialog will be enabled allowing you to add, delete, and center the modes of the "(User Defined Monitor)".

To create a user defined monitor

1. In the InControl Tools Configuration dialog, choose the Display Icon from the Options group.
2. Select "(User Defined Monitor)" from the Manufacturer & Model option list. This will enable the remaining controls for this option group.

To add display modes

1. Select the Display Mode to be added to the user defined monitor.
2. Select the Refresh Rate of the display mode to be added.
3. Specify the horizontal and vertical sync polarities of the display mode to be added.
4. Select Add Mode, to add the display mode to the user defined monitor definition.

To delete display modes

1. Select the mode to be deleted from the Display Modes option list
2. Select Delete Mode, to remove the selected display mode from the monitor definitions.

To center the display modes

1. Select the mode to be centered from the Display Modes option list.
2. Select Display Mode Centering. This will test the Display Mode allowing you to center the viewable display area. If the display goes blank it will return in 10 seconds, or if you press ESC.

To save the settings, select OK, otherwise select Cancel.

After change your monitor selection you will need to [Configure Your Desktop](#).

Configure Your Desktop

Using the Desktop option, you can configure your desktop size, viewport size, color depth, logical DPI, icon font, cursor size and on some display controllers, also cursor color.

There are some dependencies between some of the setting: The Color Depth option list will be updated when the Desktop Size option is changed to display only the color depths than can be supported by the selected desktop size. Likewise the Viewport Size option list only the viewport sizes that are supported by the selected display monitor, and the desktop size selected.

To configure desktop options

1. In the InControl Tools Configuration dialog, choose the Desktop Icon from the Options group.
2. Select a desktop size from the Desktop Size option list.
3. Select the default viewport size from the Viewport Size option list.
4. Select the desired color depth from the Color Depth option list.
5. Select the icon font name, style, and size.
6. Specify the logical horizontal and vertical DPI from the appropriate options. You may want to use ruler to calibrate the rulers in the sample window.
7. Specify the system resource size to be used on the desktop.
8. Specify the cursor size and color. Not all display controllers support cursor color selection.
9. To save the settings, select OK, otherwise select Cancel.

Create Your Own Hot Keys

Using the HotKeys option, you can specify a hotkey sequence to perform a particular action. In particular this can be used to assign hotkeys to zoom in, zoom out, zoom to a particular viewport, or run an application.

To configure the hotkeys

1. In the InControl Tools Configuration dialog, choose the Hotkey Icon from the Options group.

To add a hotkey binding

1. Select a hotkey combination from the Key Combination options; Shift, Alt, Ctl, modifiers and the Function Key or Mouse Button options list.
2. Select an action for the hotkey combination from the Hot Key Action option list. If (Run Application...) is selected, a dialog box will appear allowing you to specify the command line to execute the application.

To delete a hotkey binding

1. Select the hotkey binding to be deleted from the Hot Key Binding option list.
2. Select Delete Hot Key.

To save the settings, select OK, otherwise select Cancel.

Configure The Power Management

Using the Power option, you can configure your screen saver and power management states. The power management state are supported in conjunction with some display monitors that reduced power consumption in the states.

To configure the power management states

1. In the InControl Tools Configuration dialog, choose the Power Icon from the Options group.
2. Select your desired screen saver if any from the Screen Saver option list. You may use the Test and Setup options to configure the selected screen saver.
3. Specify the delay before the screen saver will start with the delay option. A delay of zero will disable the screen saver.
4. Specify the delay before the display is put in suspend mode with the delay option. A delay of zero will disable the suspend state. This delay must be longer than the screen saver but less than the off delay.
5. Specify the delay before the display is put in off mode with the delay option. A delay of zero will disable the off state. This delay must be longer than the screen saver delay and suspend delay.
6. To save the settings, select OK, otherwise select Cancel.

Use Color Correction

Every monitor manufactured today displays colors in a slightly different way. Additionally, several other factors including lighting conditions, ambient temperature and monitor color fluctuations can combine to further alter the way color is displayed on your monitor. The InControl Tools Color Correction feature allows you to easily adjust your monitor to compensate for such discrepancies and to accurately match your color originals and printer output to your display.

To use the Color Correction Tool

1. Select the Color Correction Button in the Display Option screen of InControl tools. The Color Correction dialog will be displayed.

To adjust monitor brightness

1. Select one of the available test patterns in the Test Pattern pull-down menu. Color Map, Color Ramps, or Color Ramps with Dithering are the best test patterns to use for adjusting Brightness.
2. Place the mouse cursor over the Brightness slider button, and press and hold the left mouse button down while moving the slider to the right or left to lower and raise brightness.
3. Adjust the Brightness slider such that there is a linear transition from light to dark across the Color Ramp test pattern. The scale to the left of the slider will reflect your current settings.
4. When your monitor brightness is correct, select OK to save your new settings, or use the Contrast and Gamma sliders for further color adjustments.

To adjust monitor Contrast

1. Select one of the available test patterns in the Test Pattern pull-down menu. Color Map, Color Ramps, or Color Ramps with Dithering are the best test patterns to use for adjusting monitor Contrast.
2. Place the mouse cursor over the Contrast slider button, and press and hold the left mouse button down while moving the slider to the right or left to increase or reduce monitor contrast.
3. Adjust the Contrast slider together with the Brightness slider such that there is a linear transition from light to dark across the Color Map or Color Ramp test patterns. The scale to the left of the sliders will reflect your current settings.
4. When your monitor brightness is correct, select OK to save your new settings, or use the Contrast and Gamma sliders for further color adjustments.

To adjust monitor Gamma

1. Select the Color Ramps with Dithering test pattern from the Test Pattern pull-down menu.
2. Place the mouse cursor over the Gamma slider button, and press and hold the left mouse button down while moving the slider to the right or left to increase or reduce the monitor gamma. Increasing Gamma will increase contrast in the darker tones of the display while decreasing contrast in the brighter tones.
3. Adjust the Gamma slider such that the small dithered squares in the test pattern most closely match the background color. The scale to the left of the slider will reflect your current Gamma curve.
4. When your monitor gamma is correct, select OK to save your new settings, or use the Brightness and Contrast sliders for further color adjustments.

To adjust Gamma for separate Color Channels

1. Select either the Color Map, Color Ramps or Color Ramps with Dithering test patterns from the Test Pattern pull-down menu.
2. Click on the Red, Green or Blue Channel selection buttons to the right of the Gamma adjustment slider.

3. Place the mouse cursor over the Gamma slider button, and press and hold the left mouse button down while moving the slider to the right or left to increase or reduce the monitor gamma for the selected channel. This operation can be repeated for each of the individual color channels if necessary.
4. When your monitor gamma is correct, select OK to save your new settings, or use the Brightness and Contrast sliders for further color adjustments.

The EPA founded the Energy Star program in efforts to conserve electricity. Diamond is an ally in efforts to meet these goals.

Select your monitor type and refresh rates for each resolution.

Select the resolution to operate at, number of colors to operate with, cursor size and color, and font settings.

Define mouse and/or keyboards shortcuts for zooming to different resolutions and launching Windows applications.

Control screen saver type and settings, and time to begin suspend and power off modes.

The desktop size is the size that Windows will believe the display is. The smaller desktop sizes will support larger color depths.

The viewport size is the portion of the desktop that is viewable to you on the display monitor.

The color depth is the number of colors that can be displayed on the desktop at one time.

Dots Per Inch.

The system resource size specifies the size of the minimize and maximize buttons, title bar height, and System font.

A hotkey combination is a combination of the Shift, Alt, and Control modifier keys with either a function key or a mouse button.

