



HELP

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Overview

What is ImageTune™?

Monitor performance can vary due to the graphics card, host computer, lighting conditions and other environmental factors. In order to get the best image on a monitor requires you to adjust it for your unique setting. Unfortunately, the manual controls available to tune the image often prove to be challenging. Proper adjustment (tuning) requires an easy to use program that goes through a step-by-step process to obtain the best overall picture quality.

In most cases even simple adjustments to Brightness, or Contrast require navigation of the multi-level, on-screen display (OSD) menus that are not easy to understand. Furthermore, there is no feedback to assist in correctly setting the controls of the monitor. ImageTune is a software utility that guides you through the tuning process with easy to understand instructions and back ground patterns designed for each monitor control. The display settings for each user can be saved, providing an easy way to select display characteristics in a multi-user environment, or having a single user have multiple defined presets based on content and ambient lighting.

Basic functionality

ImageTune is a software utility that allows monitor adjustment and color tuning using the Display Data Channel Command Interface (DDC/CI) protocol. All adjustments to the display are controlled via software to eliminate the need to use the monitor on-screen display (OSD). ImageTune supports Windows 98SE, Me, 2000, NT, XP Home, and XP Professional.

ImageTune runs in the back ground and can be accessed through the task tray, start menu, or right click on the desktop. ImageTune allows for quick accurate tuning of the display with the ability to easily save and use monitor configurations that are best suited for you.

Wizard and OSD Modes

ImageTune has two modes of operation: Wizard and OSD mode. The preferred method of use is Wizard mode, which takes you through a step-by-step process to accurately calibrate the monitor. This method relies on a sequence of steps that will obtain the best display results when completed.

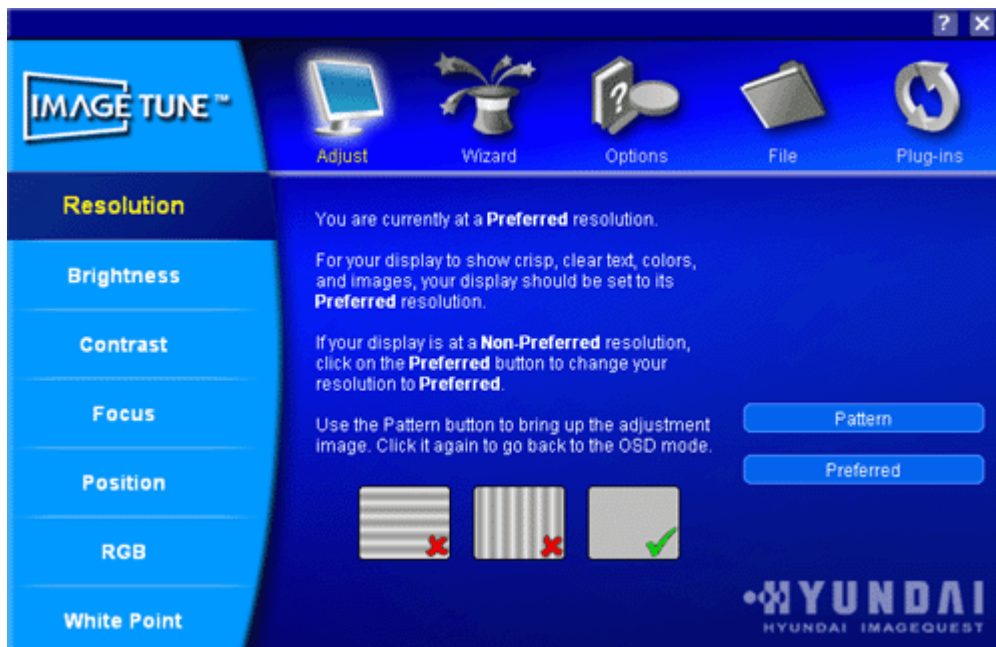
OSD mode allows you to easily make changes to any single monitor setting without the need to go through a predefined sequence. This method is less accurate than Wizard mode, but allows easy access to any monitor adjustment.

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OSD Mode

OSD mode allows for easy access to any of the of the monitor settings. The tabs across the top of the control panel list the general description of the controls within that tab. Selecting the the tab displays a list of menu items. Any tab and submenu item can be randomly accessed for quick tuning of the monitor.



Control Definition

Undo - Restores the monitor value for the active control pane to its previous setting. If no change was made to the current control pane, undo will have no affect.

Reset - Restores the monitor value for the active control pane to its factory setting.

Pattern - Select the Pattern button to view the adjustment image. Patterns automatically load in Wizard mode.

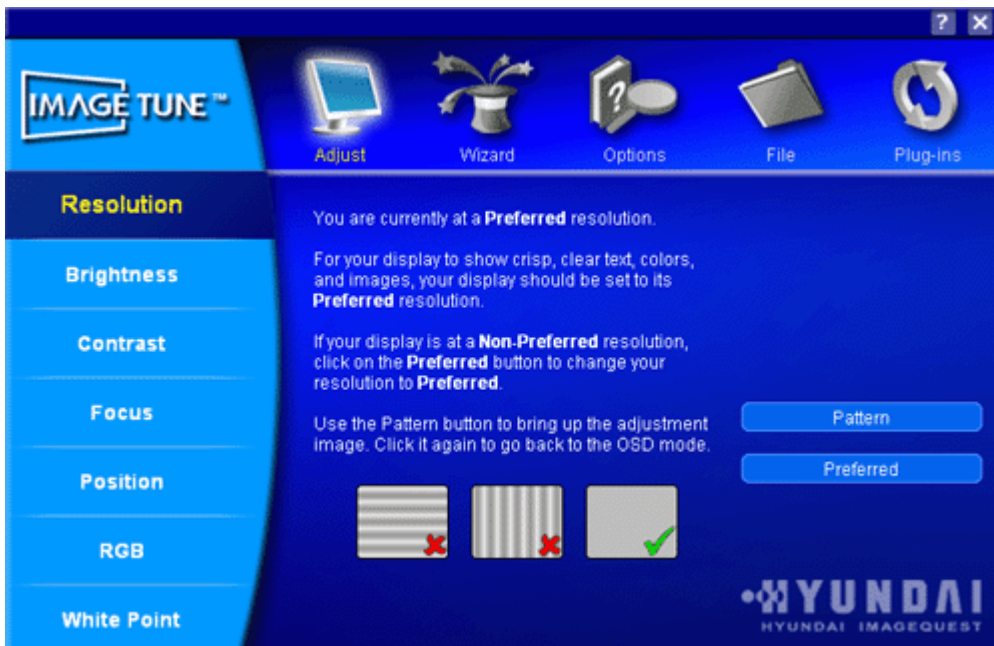
+/- - Increases or decreases the monitor value by one unit for the current control pane.

Slider - Increases or decreases the monitor value for the current control pane.

? - Access to Help file: opens Help file using the default browser window

Close Box - Closes ImageTune.

Adjust Definition



Resolution - Select the Preferred button to set the display to the manufacturer's recommended settings. If your display is in any resolution over than Preferred the clarity of fonts and graphics will be compromised.

NOTE: The color calibration plug-in requires the display to be set to the preferred resolution.

Brightness - Loads the Brightness instruction pane with slider control. Select the patterns button to load the adjustment image then use the slider to tune the brightness.

Contrast - Loads the Contrast instruction pane with slider control. Select the patterns button to load the adjustment image then use the slider to tune the contrast.

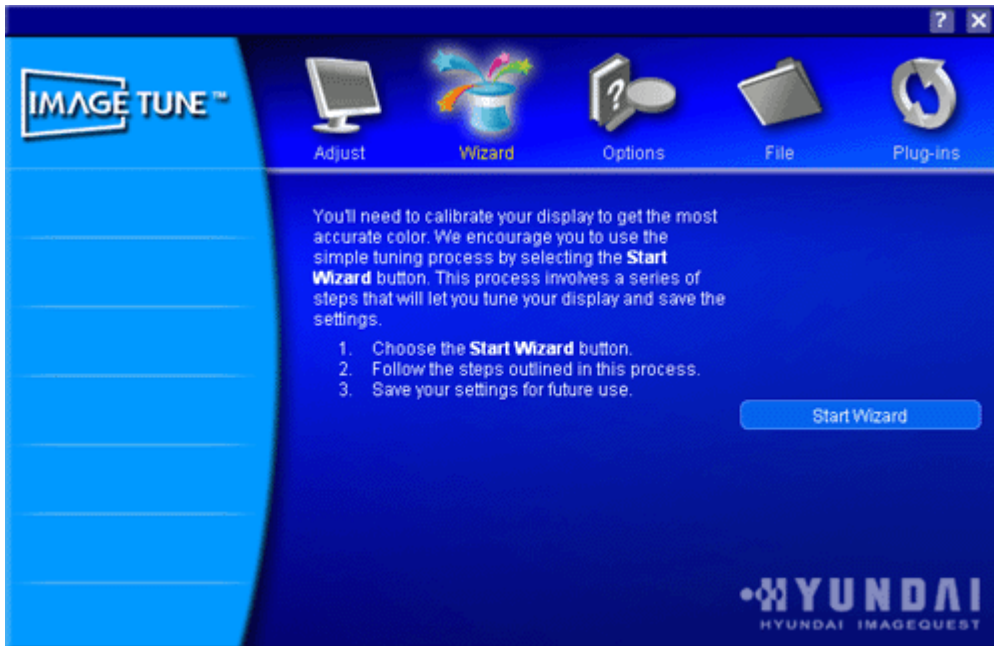
Focus (this sub menu will not be visible if you are using the digital connection of your graphics card and monitor) - Loads the Pitch and Phase instruction pane with slider controls. Select the patterns button to load the adjustment image, then select Auto Setup to use the manufacturer recommended settings. If there still appears to be movement in the patterns use the Pitch slider to reduce any noise on the screen. Next use the Phase slider to completely eliminate residual noise.

Position (this sub menu will not be visible if you are using the digital connection of your graphics card and monitor) - Loads the Position instruction pane with control buttons. Select the patterns button to load the adjustment image then use the control buttons to position the grid so that all edges are visible.

RGB (this sub menu may not function if you are using the digital connection of your graphics card and monitor) - Loads the Primaries instruction pane with Red, Green, and Blue slider control. Select the patterns button to load the adjustment image, then use the color slider to increase or decrease the corresponding primary color.

White Point (this sub menu may not function if you are using the digital connection of your graphics card and monitor) - Lists the supported color temperature presets and slider control. The display is capable of color temperatures of 6500k and 9300k. The current setting is displayed in the status box below the slider.

Wizard Mode



Wizard mode goes through a predefined step-by-step process with instructions and patterns for each monitor setting. Once the process is complete, you will be asked if you wish to save the settings as a Preset. A Preset can be called and used from the desktop or automatically each time the system is started.

To run Wizard mode:

1. Launch ImageTune
2. Select the Picture tab
3. Select Wizard from the Picture submenu
4. Select the Start Wizard button

Wizard Mode Adjustment Sequence

Resolution - Select the Preferred button to set the display to the manufacturer's recommended settings. If your display is in any resolution over than Preferred the clarity of fonts and graphics will be compromised.

NOTE: The color calibration plug-in requires the display to be set to the preferred resolution.

Focus (this sub menu will not be visible if you are using the digital connection of your graphics card and monitor) - Loads the Pitch and Phase instruction pane, pattern, and slider controls. Select the AUTO button, then use the Clock and Phase slider to completely eliminate residual noise.

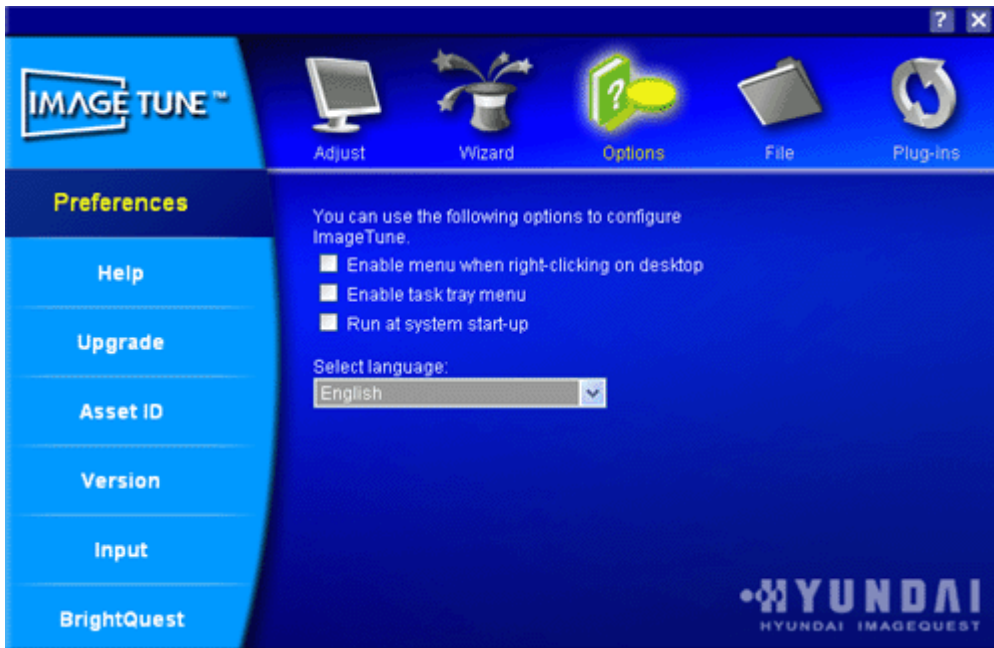
Brightness - Loads the Brightness instruction pane, pattern, and slider control. Use the slider to tune the brightness in the darker image area.

Contrast - Loads the Contrast instruction pane, pattern, and slider control. Use the slider to tune the contrast.

Position (this sub menu will not be visible if you are using the digital connection of your graphics card and monitor) - Loads the Position instruction pane, pattern and control buttons. Use the control buttons to position the grid so that all edges are visible.

White Point (this sub menu will not be visible if you are using the digital connection of your graphics card and monitor) - Lists the supported color temperature presets and slider control. The display is capable of color temperatures 6500k and 9300k. The current setting is displayed in the status box below the slider.

Options Definition



Preferences - Loads the Preferences Dialog Box. Preferences in use will have a "V" in the check box. To turn on or off any Preference, position the cursor over the box and click.

Enable context menu on desktop - Puts ImageTune options in the right click context menu. To run ImageTune, simply right click anywhere on the desktop

Enable task tray menu - Shows complete list of menu items for ImageTune. When disabled, ImageTune will still be in the task tray, but will only have the Exit option available to the user.

Run at startup - When checked, ImageTune will launch each time the system is restarted regardless of whether a monitor is attached to the system. In laptop configurations, when the external monitor is undocked, it is recommended to uncheck this box to bypass launching ImageTune when no display is attached. To enable ImageTune you must either launch it from the desktop shortcut or from program files.

Help -Loads the Help/Technical Support instruction pane. Help button will load the help files for ImageTune. Technical Support button will open a link to an automated online Technical Support form and send it to Portrait Displays for resolution. Technical Support button requires an Internet connection to work.

Upgrade - Loads the Upgrade instruction pane. Check Upgrade button will open a link to ImageTune homepage and automatically check for the latest available version. Upgrade button requires an Internet connection to work.

Asset ID - Loads the monitor information pane to provide manufacturing data of the display.

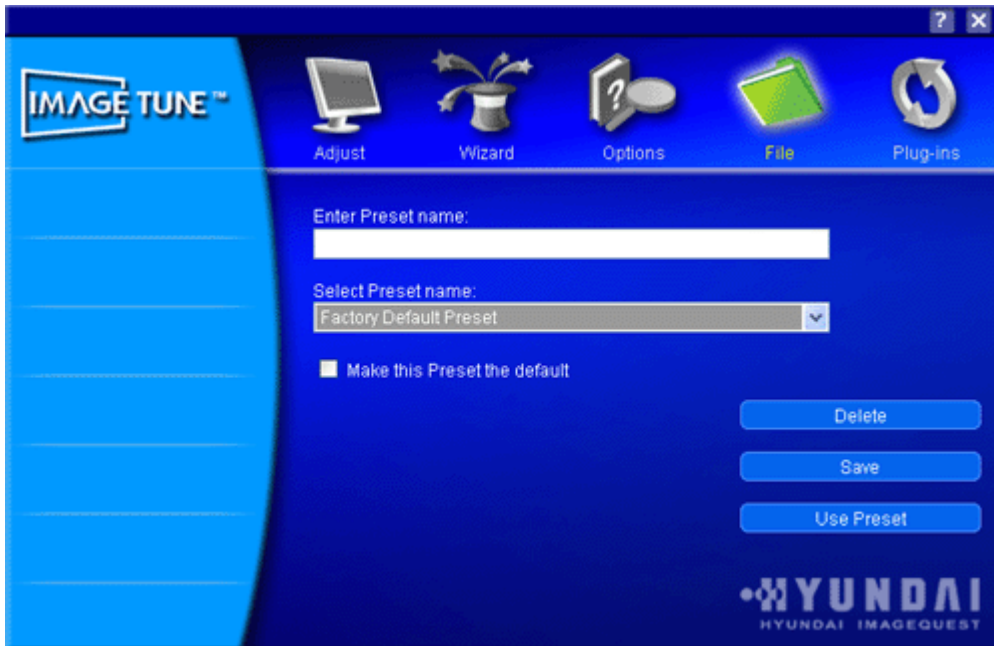
Version - Displays the version of ImageTune and the means of communication with the monitor.

Input (this sub menu will not be visible if your display only has one input)- Loads the source pane for easy selection between Analog In (analog VGA mode) and Digital In (digital DVI mode) source for the display.



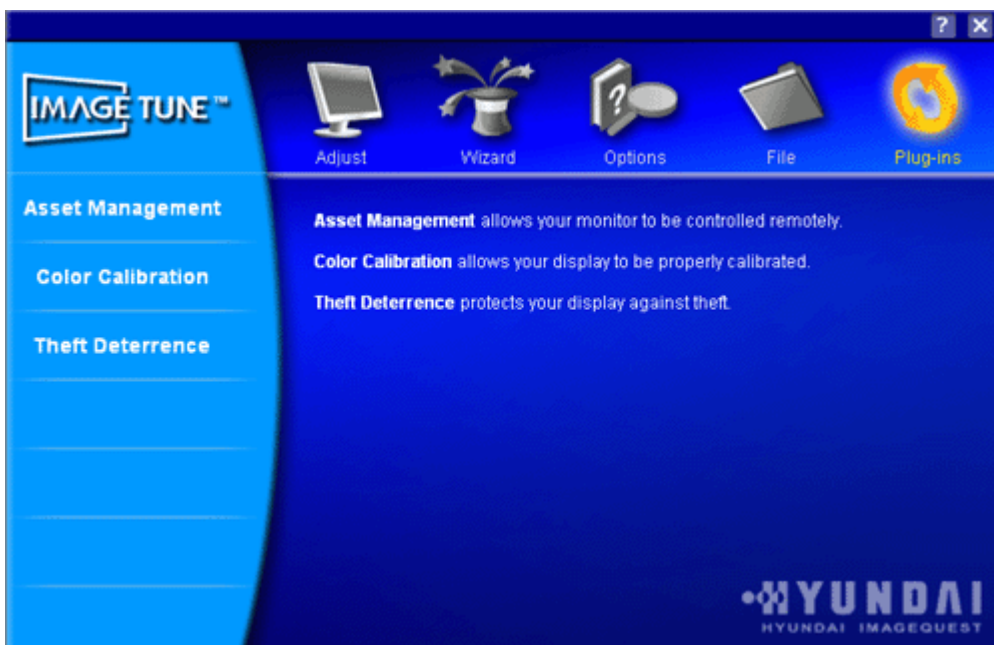
Bright Quest - Changes the brightness according to the user's preference. Choose from Text (least amount of brightness), Internet (medium brightness), and Entertain (most amount of brightness).

File Definition



Presets - Loads the Preset pane for management of presets. The preset pane allows you to load the factory default preset to restore the monitor to the manufacturer recommended settings. In addition, presets can be saved for any combination of adjustments made with ImageTune.

Plug-Ins Definition



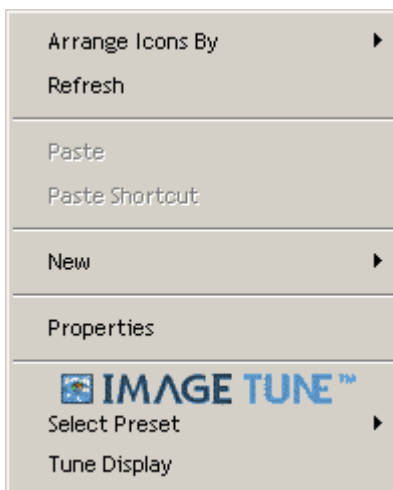
Plug-ins are optional modules that can be installed on a ImageTune compatible system. The plug-in will provide additional functionality beyond the standard OSD replacement functions associated with ImageTune. The version of ImageTune installed on the system may have some or all plug-ins.

To verify if your version of ImageTune has optional plug-ins installed, do the following:

1. Launch ImageTune
2. Click on the Plug-in tab

A list of supported Plug-ins will be displayed. To use the plug-in, simply click on the desired plug-in button.

Context Sensitive Menu



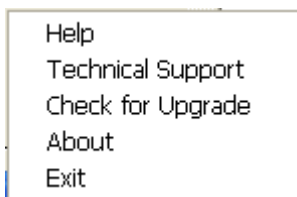
To access the ImageTune context sensitive menu, right-click on any vacant area of the desktop. If Enable Context Menu has been disabled in the Options>Preference the menu will not be visible.

Select Preset - Provides a list of predefined presets for immediate use.

Tune Display - Opens the ImageTune control panel.

ImageTune logo - Shows the version number of ImageTune.

Task Tray Menu



To access the ImageTune menu click on the icon in the task tray.

Help - Access to Help file: opens Help file using the default browser window

About - Displays detailed reference information: product version, release information

Check for Update - Opens link to ImageTune homepage and automatically checks for the latest available version (requires an Internet connection to work)

Technical Support - Opens link to automated online Technical Support form (requires an Internet connection to work)

Exit - Closes ImageTune and turns off back ground color calibration. To run ImageTune either select ImageTune from the Program menu or restart the system.

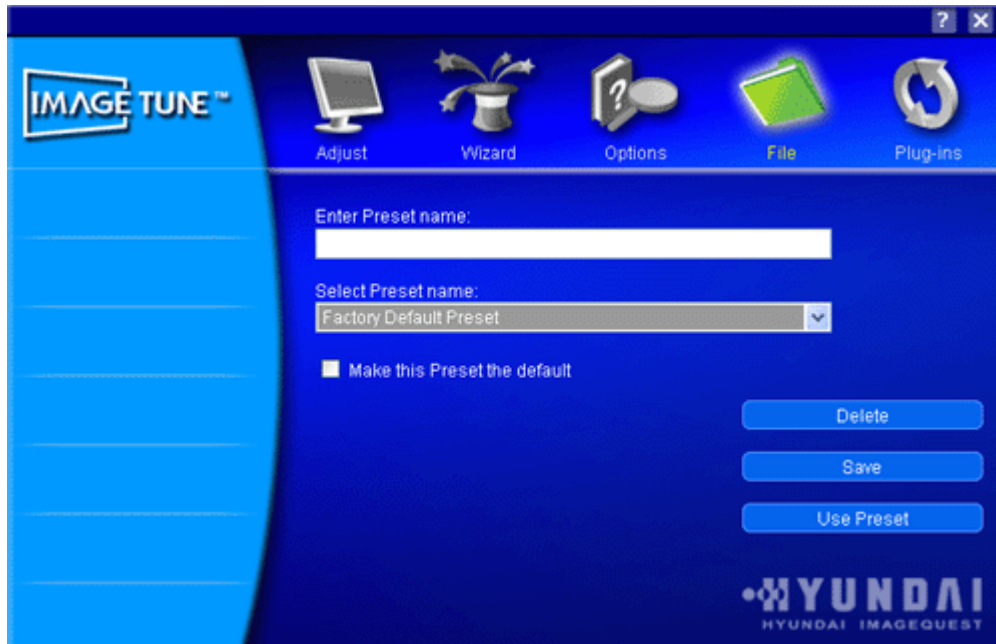
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Presets



Presets allow all characteristics of the monitor to be saved to a user defined file. The Preset can be called at any time or set to automatically load each time the computer is restarted. Presets provide greater flexibility and can be based on multi-user configurations, content specific material, application requirements, and changes in the work environment.

Factory Default Preset

In addition to the user definable Presets, ImageTune has a Factory Default Preset. Loading this Preset will reset the display to the recommended factory settings. The Factory Default Preset provides an easy way to restore the image if the monitor is poorly adjusted.

NOTE: The Factory Default Preset can not be deleted or overwritten.

How to Manage Presets

To access the Preset control pane, select the Preset from the submenu.

Enter Preset Name - Typing a descriptive name of the file in the Enter Preset Name box and clicking the Save button will save the current settings as a Preset. After the Save button is clicked, this new Preset will appear in the drop-down menu below.

Select Preset Name - The drop down menu displays the list of available Presets. Holding down the arrow activates the drop-down menu. To activate a Preset, select the desired Preset from this menu. It will appear in both text boxes. Next click the Use Preset button.

Make this Preset the default - When checking this box, the Preset shown in the Enter Preset name box is set as the default. Once selected, the Preset will automatically load when the computer is restarted or when logging on as a user. To disable, uncheck the box when the default Preset is shown in the Enter Preset Name box.

Delete - Deletes the visible Preset in the drop down menu. Once deleted, the Preset is lost.

Save - Saves the Preset. To enter in a new file name, highlight the file name in the active menu area type a new name. This will add the new file name to the drop down list and will NOT overwrite the previous file

name.

Use Preset- Loads the selected Preset.

How to Save Presets in Wizard Mode

To add a Preset

1. Launch ImageTune
2. Select Picture>Wizard Tab
3. Select the Start Wizard button
4. Proceed through the Wizard
5. Once complete, the Preset pane will appear.
6. Highlight the name in the menu box and enter in a new name. Leaving the current name visible will overwrite the file.
7. Select OK

How to Save Presets in OSD Mode

To add a Preset

1. Launch ImageTune
2. Make adjustments to any of the monitor controls
3. Select the Preset from the submenu
4. Highlight the name in the menu box and enter in a new name. Leaving the current name visible will overwrite the file.
5. Select Save

How to Load Presets

There are two ways to load a saved preset; from within ImageTune from the Preset pane or from the Context Sensitive menu.

To load a ImageTune Preset from within ImageTune

1. Launch ImageTune
2. Select Preset from the submenu
3. Select the file name from the drop down menu in the Preset drop down menu
4. Select Use Preset

To load a ImageTune Preset from the Context Sensitive Menu

1. Right click on any vacant area of the desktop
2. Select the Preset name from the hierarchical menu

How to Delete Presets

To delete a ImageTune preset from within ImageTune

1. Launch ImageTune
2. Select Preset from the submenu
3. Select the file name from the drop down menu in the Preset drop down menu
4. Select Delete

Note: Once a Preset has been deleted it can not be restored.

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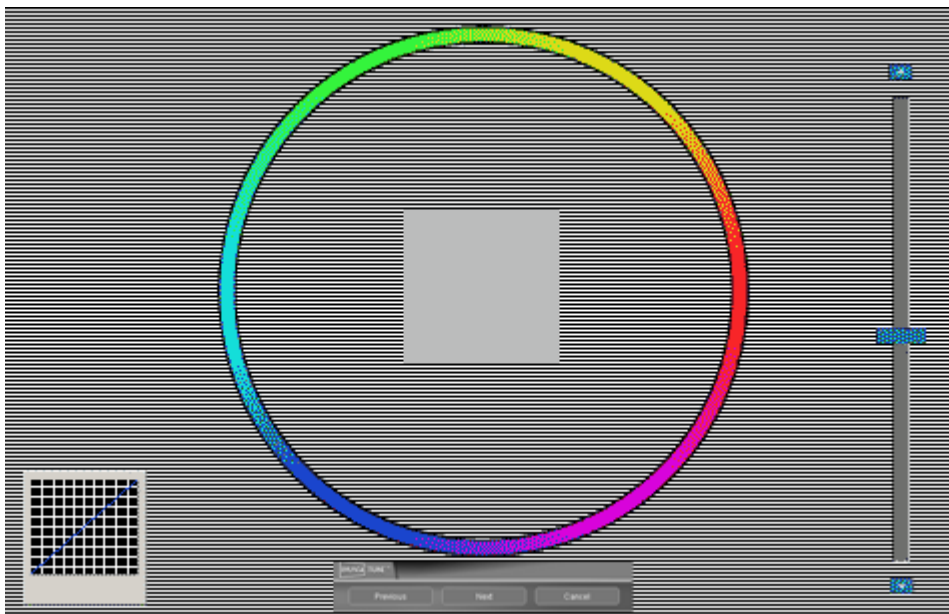
Color Calibration

ImageTune color calibration makes it possible to achieve sRGB color on your LCD. sRGB color is used to display images from websites as well as specifying a color matching technique to provide monitor and output device color that is consistent. ImageTune color calibration is handled through an interactive series of targets to "dial in" the high, mid, and low tone colors. Once the process is complete, the user will experience accurate color representation of images within Windows and from the web.

NOTE: Selecting the Factory Default Preset will disable color calibration. To enable color calibration, go to Color>Color Calibration and select Enable Color Calibration.

How to use ImageTune Color Calibration

The color calibration will take about ten minutes to complete. ImageTune color will go through a series of steps to produce sRGB color from your LCD.



Adjust the display's height and tilt for normal viewing. Comfortably position yourself at the distance and viewing angle as you would for every day use. Do not change your viewing angle during the calibration process.

Look at the middle square in the color ring. It should appear neutral of any color. If the square appears to have color other than gray present, slowly drag the square toward the same color of the outer color ring until the tint is removed.

EXAMPLE: If the square has blue tint, click on the square and slowly drag it toward the outer blue portion of the ring. This will remove blue tint from the square.

Once the square appears to be neutral move the slider up and down until the square blends into the back ground. Some targets will not allow for the square to completely vanish into the back ground. You'll want to get as close to blending the foreground square into the background gray as possible. Alternate between removing tint from the square and using the slider to get the optimal results. Once complete select Next to move to the next target in the series. Repeat the steps until finished. Once the process is complete, the Preset pane will appear asking if you wish to save the desired results.

ImageTune provides a color target to assist in verifying that color calibration was successful

To Launch the color targets

1. Select Quick View from Color>Color Calibration
2. Select Quick View button
3. ImageTune will load the color target
4. Select View uncalibrated from the target (this will turn color calibration off)
5. Select View calibrated from the target (this will turn color calibration on)

Calibrated Target



Uncalibrated Target



Asset Management



In any local network or large enterprise, the importance of managing the client's hardware and software (assets) is instrumental in the total cost of ownership (TCO). Displays are viewed as an investment to the overall computing solution and require the same attention and management of the capital investment. ImageTune Asset Management Plug-in (ITAMP) is a console application that provides the IT Manager the necessary components to remotely access two types of controls: 1) viewing the asset and 2) controlling the asset.

To verify that Asset Management is installed correctly on the client:

1. Launch ImageTune
2. Click on the Plug-in tab
3. Select Asset Management from the list of installed plug-ins
4. Verify that Asset Management Status is set to Enabled. (if the pane states disabled, the asset management service failed to load)

Theft Deterrence



Your display has been enabled with Theft Deterrence. Image Tune's theft deterrence minimizes theft or unauthorized relocation of the display. Theft deterrence does not prevent the display from being stolen, but hinders the operation of the display once it is removed from the host computer.

To enable Theft Deterrence, click on the Enable Theft button in ImageTune. Enter a personal identification number (PIN) and timer value for the display. The timer value allows for normal operation when a theft condition has occurred before displaying the theft warning message.

The following actions must occur for the theft timer to be activated:

- 1) Both power and display cables must be removed from the display
- 2) The display is attached to a different computer

Once both actions occur, the monitor suspects theft and begins its countdown. If the correct PIN is not entered using ImageTune, the display will enter theft mode and a large warning message will appear on the screen.

Hyundai Image Tune software provides a mechanism that allows for creating and storing the PIN to a secured web site for safe keeping. You should also keep your PIN information in a secure area away from your display for future reference. If you have forgotten your PIN and it is registered on the secured web site, you can retrieve it via email.

To create and store your PIN you must be connected to the Internet. Click on the link below and follow the simple instructions for creating and storing your PIN.

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Uninstall

ImageTune can only be uninstalled using Windows Add/Remove Programs option.

Follow the steps below to Uninstall ImageTune:

1. Go to the Start menu in the System Tray, select Settings then select Control Panel from the menu. (For Windows XP, select Control Panel from the Start menu).
2. In the Control Panel, open the Add/Remove Programs icon
3. From the Add/Remove window, scroll down then click ImageTune to highlight it
4. Click Change/Remove to Uninstall
5. Click "Yes" to begin uninstalling ImageTune
6. Wait until Windows shows the dialog box to confirm successful uninstall

Visit our website for ImageTune Technical Support, Frequently Asked Questions (FAQs), software upgrades, and more.

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Any technical support related to ImageTune is only available on-line through the following Web page.

- <http://oem.portrait.com/dtune/iqt/enu/index.html>

Cautions for Theft Deterrence Function Operation

Make sure to remember your password (PIN#) to use the Theft Deterrence Function. It is also recommended to register with the Theft Deterrence function through the following Web page.

- <https://pinreg.portrait.com/index.php>

If you forget your password, enter "6302501" on ImageTune to disable the Theft Deterrence Function.

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