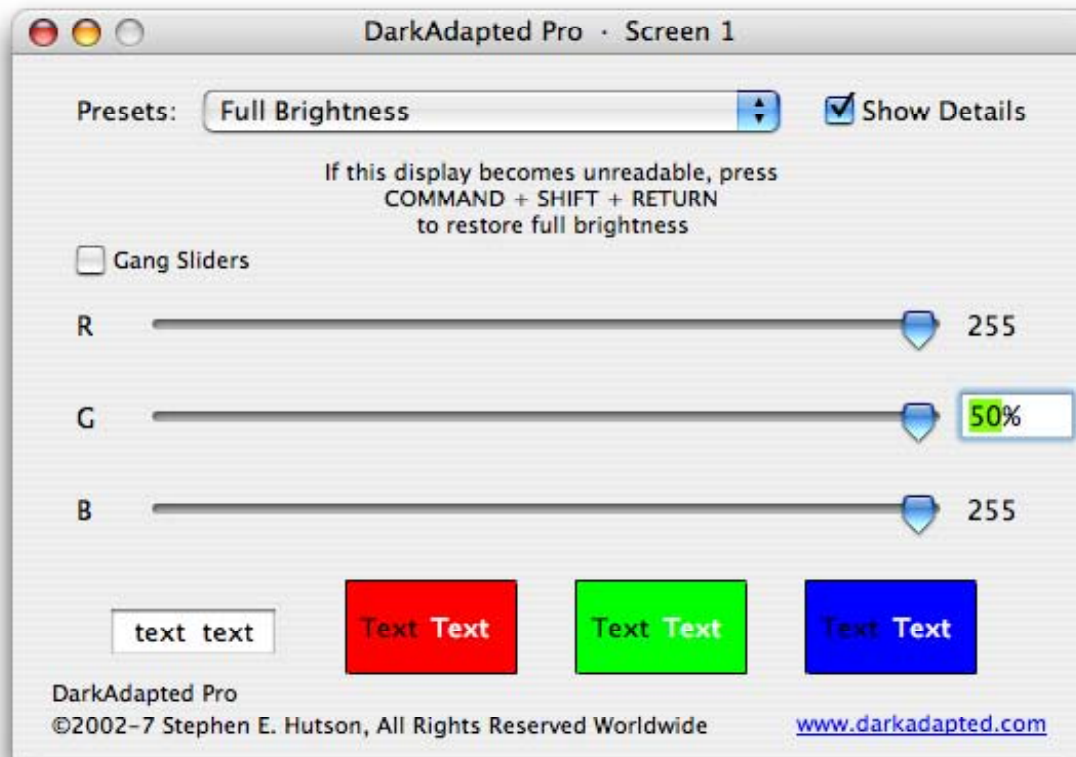


DarkAdapted and DarkAdapted Pro

Version 2.3.1 User Guide

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Section 1:

Introduction



DarkAdapted can dim your screen to the point that it becomes unreadable! If this occurs, the default escape sequence is SHIFT CONTROL OPTION / ALT, which will return your screen to full brightness.

1.1 — License Agreement

Before using DarkAdapted, carefully read the enclosed Software License Agreement. If you do not agree with any provision of this agreement, do not use DarkAdapted, and delete all copies of the program. Using DarkAdapted indicates your acceptance of the Software License Agreement.

DarkAdapted is freeware, but remains a copyrighted program. Distribution of DarkAdapted must include this User Guide and all other documentation.

1.2 — What is DarkAdapted?

DarkAdapted is a gamma control application program. It modifies the red, green, and blue components of your screen gamma so that you may, for example, preserve your dark adaptation while using your computer.

DarkAdapted boasts such features as:

- Includes the same powerful screen adjustment technology as [ScopeDriver](#), a full featured telescope control program.
- Customizable gamma presets. Use predefined settings, create your own, and manipulate your presets with ease.
- High-resolution sliders allow you to adjust red, green, and blue video components individually and in real time.
- Set red, green, and blue video components via the keyboard, and toggle between entering percentages and raw gamma values.
- Small screen mode hides advanced controls, minimizing the use of valuable screen real estate.
- Gamma toggle keys offer quick switching between full brightness and the most recent gamma setting. Modifier keys are fully assignable, and are available system-wide.
- Switching to gamma presets is performed via smooth fades, never abrupt shifts in screen color or brightness.
- Control console “remembers” its position on your screen in both its minimized and maximized modes.

- Saved gamma preset is restored when DarkAdapted is launched, and reset when DarkAdapted quits.
- Useful display features show gamma changes’ effects on selected text, as well as text on different backgrounds.
- Useful numeric and graphical readouts of gamma values.
- In multiple monitor setups, DarkAdapted controls all displays in unison.
- Automatic and/or manual Internet update checking ensures you have the latest version.
- And many other time savers and productivity enhancers.

Additional features available in **DarkAdapted Pro** (available for Macintosh only) include:

- System-wide Status Item Menu offers control of virtually every DarkAdapted setting.
- System-wide hotkeys allow setting brightness, gamma values, presets, and much more via a customizable key combination.
- Global hotkeys for adjusting the screen brightness.
- Independent control windows for multiple display setups.
- Scheduled gamma fades by day of week, time, and/or sunrise and sunset.
- Preset Sets, which can implement gamma fades for multiple screens simultaneously with a single command or hotkey.
- Run Applescripts from the system-wide menu, or at the touch of a hotkey.
- Automatic launch at login for one or all users.
- Shared or individual preferences for all users.
- Define a minimum brightness for all displays.
- Scroll wheel support for slider motion and *Presets*: pop-up menu.
- Expanded Applescript support.
- And much more!

1.3 — System Requirements

DarkAdapted requires the following hardware setup:

- **Mac:** Intel Macintosh or Power Macintosh.
- **Windows:** PC capable of running Windows 95 or later.
- At least 4 MB available RAM (6 MB recommended).
- At least 2 MB available hard disk space.
- **Windows:** Compatible monitor and video card.
- **Mac:** Mac OS X: 10.2 or later.
- **Windows:** Windows 95 or later.

1.4 — Special Thanks

Special thanks to my wife, Nancy, who put up with endless DarkAdapted demonstrations. :-)

1.5 — Trademark Information

All trademarks referenced herein are property of their respective owners.

1.6 — Guide Layout

Mac This symbol references features or behavior specific to Macintosh computers. Such items are not applicable to IBM-compatible PC's.

Win When you see this symbol, the manual discusses features or behavior specific to IBM-compatible computers. Such items do not apply to Macintosh computers.

Pro This symbol denotes features relevant only to **DarkAdapted Pro**, which operates only on the Macintosh platform.

Throughout this User Guide, menu selections and menu titles are depicted using the following typeface: **Menu Title**

Keyboard equivalents are shown using the Macintosh command-key symbol, along with the modifier key(s). For example, **⌘S** means that you hold down the **⌘** (command) key while typing the letter **S**.

Win If you are using DarkAdapted for **Windows**, substitute the **CONTROL** key for the **⌘** key.

Win If a keyboard equivalent with no menu counterpart doesn't seem to be working, simply add the **SHIFT** key to implement the action. This is necessary because Windows doesn't allow window keyboard shortcuts that override menu keyboard shortcuts, even when the menu is disabled.

Window names appear in boldface, as in **Main Window**.

DarkAdapted has been designed with ease of use in mind. Any features of the program not covered in this brief guide are, hopefully, self-explanatory. Your suggestions for improvement are always welcome!

1.7 — Connecting to Our Web Site

Clicking the web address in the **Main Window** will launch your browser and attempt to connect to the [DarkAdapted web site](#). This will work *only if* you have defined a default browser using your system software.

Section 2: Installation and Setup

2.1 — Installation

To install DarkAdapted and its documentation, you'll follow the below procedure. You must have at least 12 megabytes of free hard drive space.

Mac Locate and mount the Macintosh disk image. The disk image will contain a folder which contains the DarkAdapted application program, documentation, and extras.

Open the DarkAdapted folder, then double-click the file entitled "Read Me." Read this document, which may contain late-breaking information or special instructions.

Double-click on the DarkAdapted application program icon, and follow the instructions on screen.

Win Locate and decompress the downloaded archive. The expanded folder contains the DarkAdapted application program and its documentation.

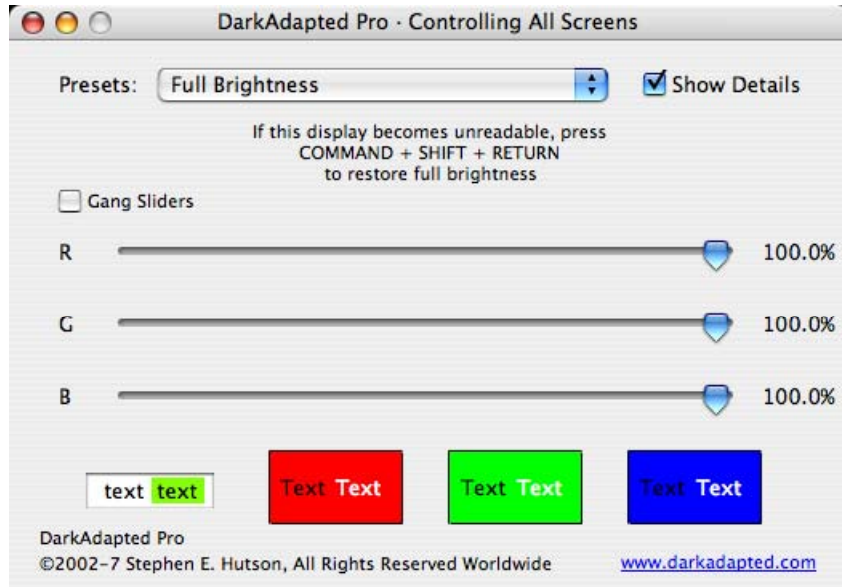
Drag the DarkAdapted Folder to the desired location.

Open the DarkAdapted folder, then double-click the file entitled "Read Me." Read this document, which may contain late-breaking information or special instructions.

Double-click on the icon entitled "DarkAdapted.exe." If you do not have the correct application file for your operating system, check the [DarkAdapted web site](#) for the correct file.

2.2 — First Run

Double-click on the icon representing the DarkAdapted application. The **Control Window** will then appear, as depicted below:



Control Window

Note the text that appears below the *Presets*: pop-up menu. **These are the keys that you must hold down to return to full screen brightness**, in the event that your adjustments result in a monitor that's too dark to read. Press these keys once to return to full brightness, and again to return to the previous gamma setting.

Mac The default gamma toggle keys on the Mac platform are ⌘ **SHIFT** **RETURN** (although they may be changed in the **Preferences Window**). All of these keys must be held down simultaneously.

Win The default Windows gamma toggle keys are **CONTROL** **SHIFT** **RETURN** (changeable via the **Preferences Window**). All of these keys must be held down simultaneously.

Pro **DarkAdapted Pro** can present multiple **Control Windows**, with each window appearing on a different screen. In this mode, the gamma toggle keys may apply to whichever main window appears in front, or to all windows, as set in the **DarkAdapted Preferences Window**.

The gamma toggle keys may also be used to toggle between full brightness and the most recently selected gamma values. Simply release and again press the gamma toggle keys to toggle between the two states.

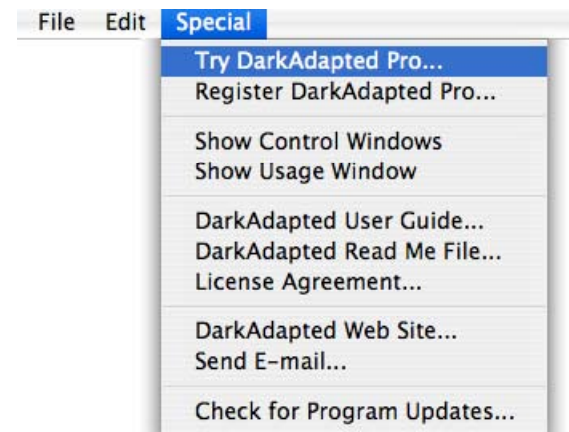


To configure DarkAdapted Pro at the **Control Window**, right-click (or **CONTROL**-click) in a non-control area of the window, and a contextual menu opens with the choices DarkAdapted Preferences..., Show System-wide Menu... (in DarkAdapted Pro only), and Quit DarkAdapted.

2.3 — Try DarkAdapted Pro for Free

Mac DarkAdapted Pro is only available to users running DarkAdapted on a Macintosh; it is not available on Windows, owing to gamma control limitations on this platform.

To try DarkAdapted Pro's advanced features, select Try DarkAdapted Pro... from the Special menu, as illustrated below:



"Try DarkAdapted Pro..." Menu Item

DarkAdapted Pro offers several additional features over the basic program, including:

- A system-wide Status Item Menu, from which you may select Presets, change brightness, control RGB values, and control virtually every DarkAdapted setting.
- Automatic launching of DarkAdapted at login, for the current user or all users.

- System-wide hotkeys, which allow setting brightness, gamma values, presets, and any other item in the Status Item Menu via global key combinations.
- Global, repeating hotkeys to adjust screen brightness in selectable increments.
- The ability to share DarkAdapted preferences between all users of the same computer, if desired.
- The ability to control multiple displays independently, using a separate **Control Window** for each display.
- The option of creating Preset Sets, which can implement gamma fades for multiple screens simultaneously with a single command or hotkey.
- Scheduling capabilities, including defining events that change gamma values on particular days of the week, at certain times, and/or at sunrise or sunset. Scheduled events may control all displays and/or a single display.
- Scroll wheel support for the *Presets* pop-up menu and the gamma sliders. In the case of the gamma sliders, scroll wheel control moves the sliders in unison, and offers the option to either preserve or ignore relative gamma intensities. In contrast, selecting *Gang Sliders* only offers the option to preserve relative gamma intensities.
- A system-wide Applescript menu that can execute Applescripts via the menu, or via user-defined, global hotkeys.
- Enhanced Applescript support to support the additional features of DarkAdapted Pro.
- And much more.

After you select *Try DarkAdapted Pro...* from the Special menu, the following dialog appears:



Try DarkAdapted Pro Dialog

Select *Try* to enable all of DarkAdapted Pro's enhanced features for a period of ten minutes, or click *Cancel* to continue using DarkAdapted in standard mode.

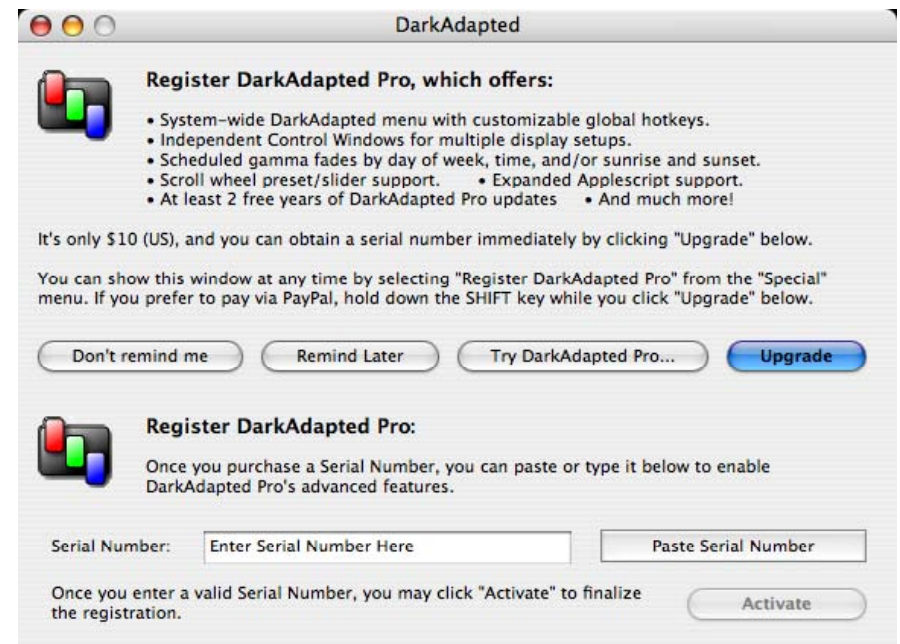
After ten minutes, DarkAdapted Pro reverts to standard mode, and presents a dialog allowing you to register, as described below in [Registering DarkAdapted Pro](#).

If you'd like to try DarkAdapted Pro for another ten minutes, simply select *Try DarkAdapted Pro...* from the Special menu again, as often as you wish.

2.4 — Registering DarkAdapted Pro

Mac DarkAdapted Pro is only available to users running DarkAdapted on a Macintosh; it is not available on Windows, owing to gamma control limitations on this platform.


After you have launched DarkAdapted a few times, the **Register DarkAdapted Pro** window appears, as illustrated below:



Register DarkAdapted Pro Window

You may also summon the above window at any time by selecting *Register DarkAdapted Pro...* from the Special menu.

To immediately obtain a serial number and begin using DarkAdapted Pro's advanced features, connect to the Internet if necessary, then click the *Upgrade* button. You will be directed to our secure web site, where you may immediately obtain a serial number.

 Clicking the *Upgrade* button takes you to our secure online store, and provides you with a serial number immediately. If you would prefer to use PayPal, hold down the **SHIFT** key while clicking *Upgrade*, and you will be directed to our web page where you have the option of paying via PayPal.

Copy the serial number from your order confirmation screen, then click the *Paste Serial Number* button to enter it into the *Serial Number:* text field. Alternatively, you may click to select the *Serial Number:* text entry field, then type your registration code.

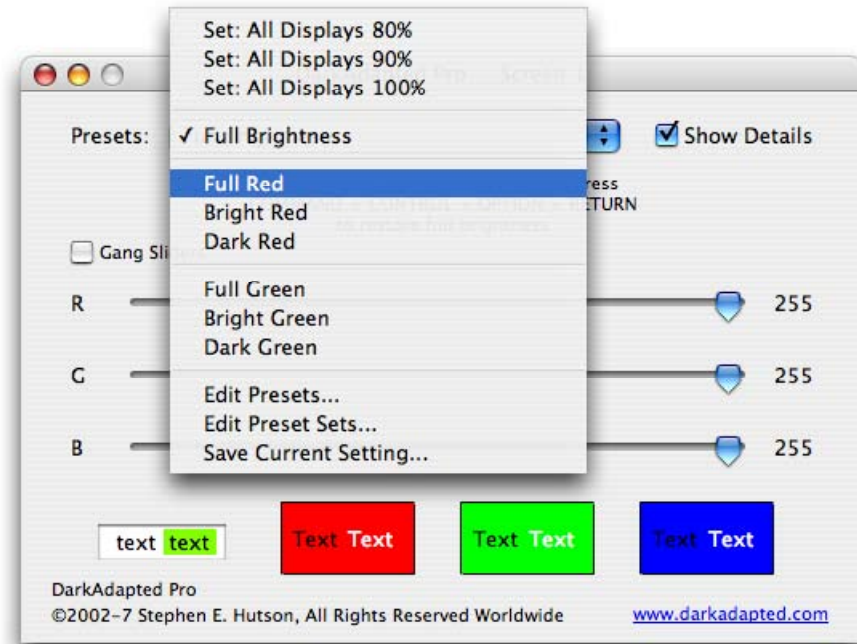
Once a valid serial number has been entered, the *Activate* button becomes operational, and you may click it to complete the upgrade process. All of DarkAdapted Pro's features will then be enabled.

Other choices in the **Register DarkAdapted Pro** window include the *Try DarkAdapted Pro...* button, which performs the same function as the menu command discussed in the section [Try DarkAdapted Pro for Free](#).

The *Don't Remind Me* button dismisses the **Register DarkAdapted Pro** window so that it shouldn't appear again in the present version of DarkAdapted, and the *Remind Later* button postpones the window until the next time DarkAdapted is opened.


2.5 — Selecting a Preset

DarkAdapted includes several built-in presets, selectable via the *Presets:* pop-up menu, as depicted below.



The Presets Pop-up Menu

When a preset is selected, the screen fades to the selected gamma setting. A *preset set* is a special type of preset that can control multiple displays, and is a DarkAdapted Pro feature described in [Preset Sets](#).

 The most recent preset selected may be restored when you next launch DarkAdapted, by changing [the appropriate setting](#) in the **Preferences Window**.

Pro You may define global hotkeys for any preset, so that the preset can be accessed from anywhere on your computer, no matter which application program is in front. Setting hotkeys is described in [System-wide Menu Hotkeys](#).


Any preset in the *Presets:* pop-up menu may also be selected via the keyboard whenever a **Control Window** is frontmost. In the below illustration, the text

orange has been typed on the keyboard, and so appears above the *Presets:* pop-up menu:




Miscellaneous Options — Preferences Window

DarkAdapted will then automatically display the first preset in the *Presets:* pop-up menu beginning with the text you type. For example, typing `ora` would select a preset named `Orange`, if that is the first preset in the menu beginning with the three letters `ora`.


 Typing a single `[SPACE]` character will toggle between `Full Brightness` and the last selected gamma setting.

If no entries in the *Presets:* pop-up menu begin with the text you typed, nothing is selected from the menu, and the text you typed will clear from the display after a one-second delay.

The `[BACKSPACE]` key will delete the last character typed.

 Typed entries normally select a matching preset one second after you type the last character. To select the matching preset immediately, press the `[RETURN]` or `[ENTER]` key after typing the preset's name.

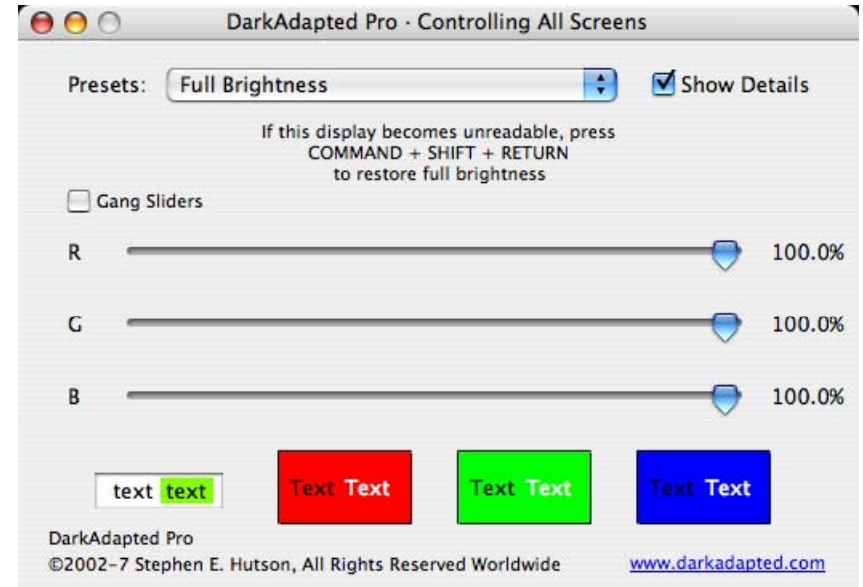
Pro DarkAdapted Pro users may position the cursor over the *Presets:* pop-up menu and change the selected preset by using the scroll wheel on the mouse.

 The *Presets:* pop-up menu automatically changes to reflect any preset that matches the state of the *gamma sliders*. So, if you have defined a preset named `Gray` that consists of red, green, and blue values of 70% each, the *Presets:* pop-up menu will automatically switch to `Gray` when you again move all three sliders to 70%.

2.6 — Showing Additional Detail

When first launched, DarkAdapted displays its **Control Window** with all of its controls and explanatory text. To display the full (maximized) **Control**

Window at any time, click to select the checkbox control entitled *Show Details* to reveal additional controls and displays, as shown below.




Expanded Control Window

The three slider controls control the primary colors red, green, and blue — and they are labeled with the first letter of each color's name. To the right of each control is displayed the actual gamma value of the corresponding color, which by default show the current gamma percentage for each primary color. You may change the readouts to instead display the actual gamma value (between 0 and 255) in the **Preferences Window**.

Click and drag any slider to change its gamma value.

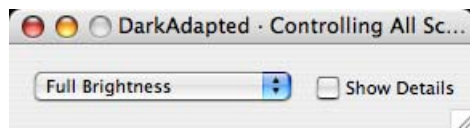
The four regions near the bottom of this window reveal the results of your gamma adjustments. The text field at lower left displays both selected and normal text; the remaining displays show both black text and white text on backgrounds that correspond to the three primary colors.

 These display regions are useful in determining whether your changes may render text or graphics unreadable under certain circumstances.

Pro DarkAdapted Pro users may position the cursor over the gamma sliders and move the sliders in unison by using the scroll wheel on the mouse.

2.7 — Showing Less Detail

Click to deselect the **Control Window**'s *Show Details* control to minimize the **Control Window**, as depicted below:



Minimized Control Window

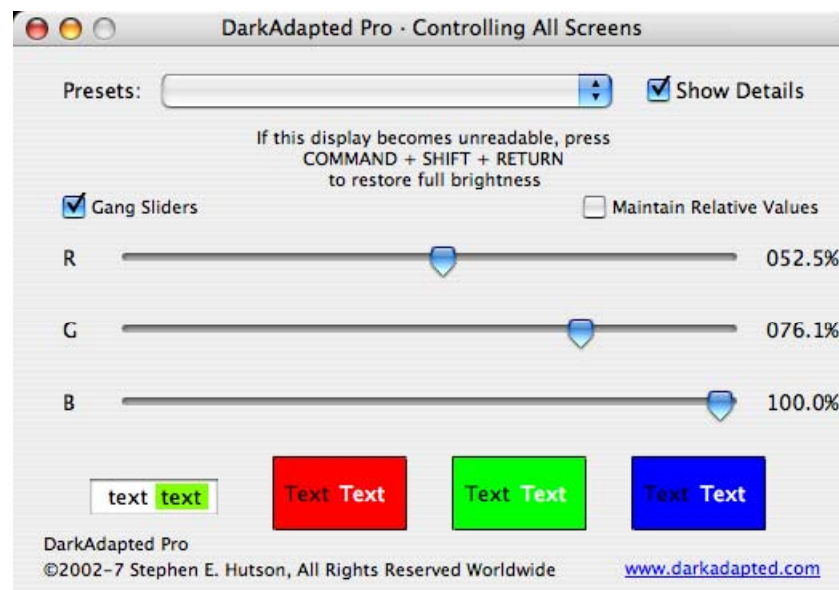
When minimized, the **Control Window** occupies much less screen area, hiding the text displays, the gamma sliders, and the text which reminds you which gamma toggle keys will restore the screen to full brightness.



DarkAdapted “remembers” the **Control Window**'s position independently for both its expanded and minimized states. This allows you to preserve one desired screen position for the expanded **Control Window**, and a different screen position for when the window is minimized.

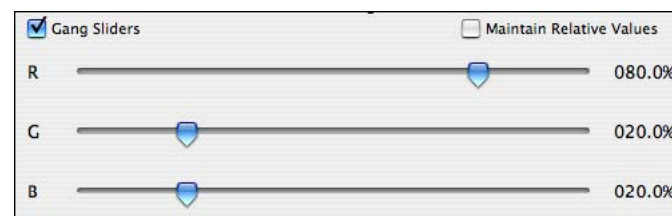
2.8 — Ganged Sliders

By default, DarkAdapted allows independent control of each gamma channel (red, green, and blue). To instead move the sliders in unison, click to select the *Gang Sliders* control in the **Control Window**, as depicted below:

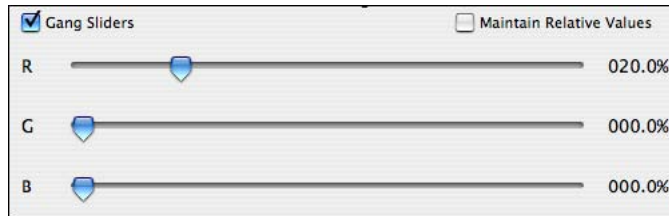


Ganged Sliders Mode

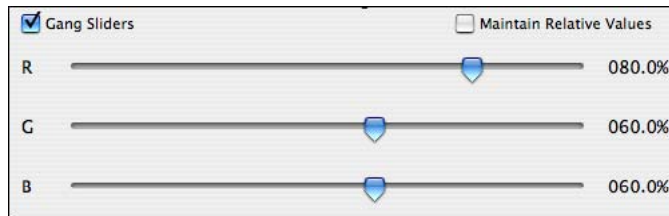
Ganged slider mode preserves the relative red, green, and blue values, until one or more sliders reaches the end of its travel, then the relative values are discarded. For example, if you start with the following gamma values:



...and then slide the Red slider left toward 20%, the Green and Blue sliders will follow along, stopping at 0%, since no slider can go below 0%, as shown below:




But when you return the Red slider to 80%, note that the Green and Blue sliders are now much closer to the Red slider's value, as shown below:



In other words, the relative gamma values between the Red slider and the Green and Blue sliders have *changed*, because the Green and Blue sliders “bottomed out” at 0% when you moved the Red slider to the left.

If you wish to instead *preserve* the relative gamma values of all three sliders in Ganged Mode, click to select *Maintain Relative Values*. When *Maintain Relative Values* is checked, DarkAdapted “remembers” the relative gamma values, even if one or more sliders reach the end of their travel.

The easiest way to understand the effect of *Maintain Relative Values* is to experiment with the control on and off. Make sure you set the sliders at greatly differing starting values to see the effect.

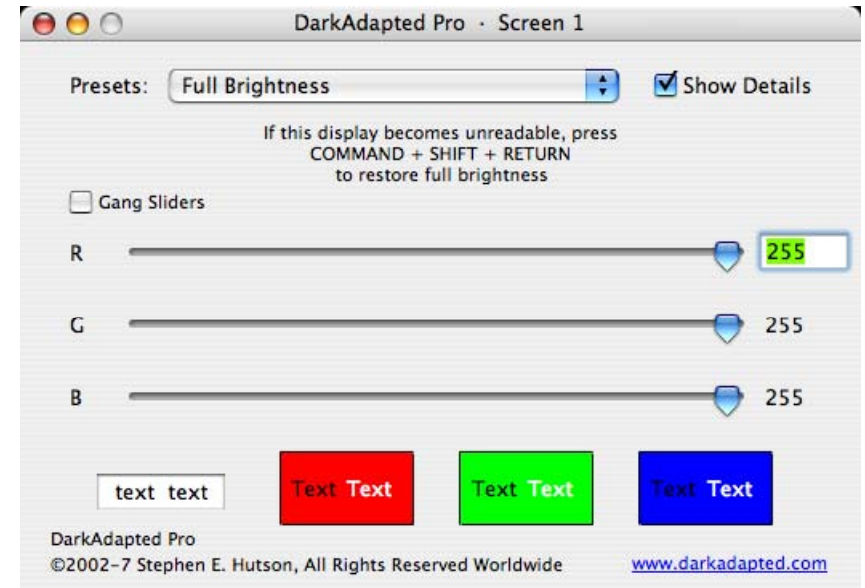
 In Ganged Mode, you may still temporarily move a slider independently of the others. Simply hold down the **SHIFT** or **OPTION / ALT** key as you click on the desired slider, and you may move it without affecting the other sliders.

Pro You may use your mouse's scroll wheel to control the sliders in Ganged Mode. Simply position the mouse over the slider region and adjust the scroll wheel on your mouse. Note that scroll wheel support is a DarkAdapted Pro feature which requires registration.

The *Gang Sliders* and *Maintain Relative Values* settings are preserved when you quit and re-open DarkAdapted.


2.9 — Keyboard Control of Gamma Values

When any **Control Window** is active, you can press the **TAB** key to numerically specify gamma values, entering those values via the keyboard. The **Control Window** is depicted below, as it appears after pressing the **TAB** key:




Keyboard Control of Gamma Values

In the above illustration, note that the gamma value display to the right of the Red slider appears as editable text, and is selected. You may select the Green and Blue values by again pressing the **TAB** key.

 Holding down the **SHIFT** key as you press **TAB** selects the gamma value displays in reverse order.

Once you have selected a gamma value for editing as described above, you may type in any valid gamma value between 0 and 255, or between 0% and 100%, as described below:

- If you type in a number *without* a percent sign (“%”), DarkAdapted expects a gamma value between 0 and 255. All displays will change to reflect gamma values, if they were showing percentages.
- If you type in a number *with* a percent sign (“%”), DarkAdapted expects a gamma percentage between 0 and 100. If necessary, all displays will change to show gamma values as percentages.

 When you want to toggle between percentage and numeric displays, simply press the **SPACE** key when editing any of the gamma value

displays. The display will alternate between the corresponding slider's raw gamma value (zero to 255) and its percentage value.

When the gamma displays are displaying gamma *percentages*, and you press the **TAB** key, only the numeric portion of the gamma percentage is selected, to speed keyboard entry, as shown below:



You may simply type the number portion of the percentage, and it will replace the selected text, leaving the percent sign (“%”) intact. If you instead wish to enter a raw gamma value between zero and 255, simply press the **SPACE** key to toggle between percentage and raw value modes.

Once you have typed a gamma value, you can implement the change in one of the following ways:

- press the **TAB** key to select the next display, or
- press **RETURN**, **ENTER**, or **ESCAPE**, or
- move the mouse, or
- activate any other window.

Editing the gamma value displays to change between percentage and raw display values also changes the state of *Report Gamma Values as Percentages* in the [Preferences Window](#).



You may also move the sliders via the arrow keys. First, select the text to the right of the slider you wish to change. You may select the text by clicking in the text display, or by pressing the **TAB** key.

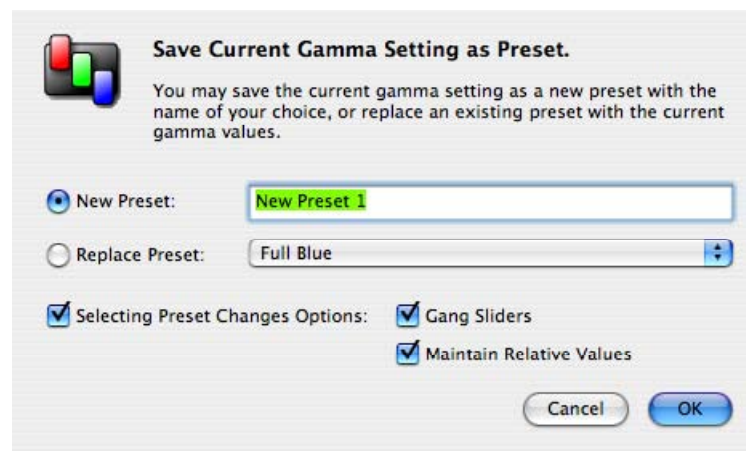
To move the selected slider to the right, hold down one of the modifier keys **⌘**, **OPTION**, or **CONTROL** — and press the **→** or **↑** key. To move it to the left, hold down one of the modifier keys **⌘**, **OPTION**, or **CONTROL** — and press the **←** or **↓** key.

If *Gang Sliders* is activated, you may move *only* the selected slider by using the **OPTION** key modifier while pressing the arrow key. Otherwise, move all sliders in unison by holding down **⌘** or **OPTION** while pressing the arrow key.

2.10 — Saving a Preset

Once you have defined a useful screen gamma value, you will probably want to use it again. DarkAdapted provides a simple method by which you may add as many presets as you desire.

Add a preset by selecting *Save Current Setting...* from the *Presets:* pop-up menu (or by selecting *Save Current Screen as Preset...* from the *File* menu, or by typing **⌘S**). A window will then appear, where you may define a new preset or replace an existing one, as shown below:



Creating a Preset

If you would like to create a new preset, click the *New Preset:* button, then enter the desired name for the preset into the text field to the right of the button.

To replace an existing preset, click the *Replace Preset:* button, then select the existing preset that you would like to replace from the pop-up menu.

If, when you select this preset in the future, you would like to change the **Control Window** options *Gang Sliders* and *Maintain Relative Values*, click to select the checkbox labeled *Selecting Preset Changes Options:* Once selected, you may then toggle the state of the *Gang Sliders* control, and — when *Gang Sliders* is selected — also toggle the state of *Maintain Relative Values*.

Click **OK** to add the preset to the *Presets:* pop-up menu, and to make it available throughout the program. If you wish to continue without adding the new preset, simply click **Cancel** to return to the **Control Window**.

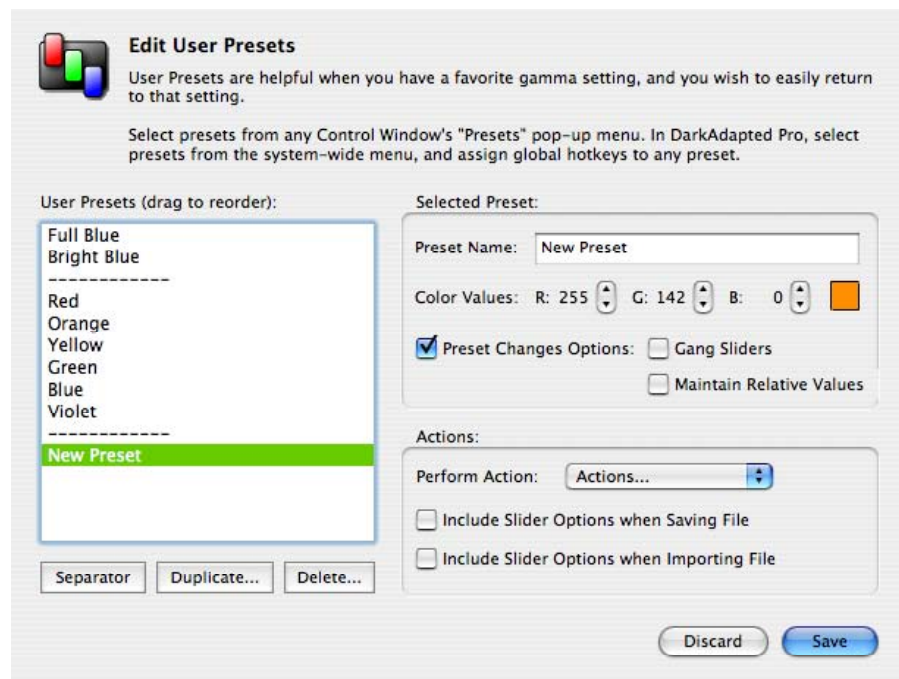
2.11 — Managing Presets

DarkAdapted gives you control over how your presets appear in the pop-up menu and throughout the program, and the program lets you delete, duplicate, and rename presets that you have added to the program.

Presets may also be stored in disk files. If you have downloaded a presets file — or wish to load one of the sample files included with DarkAdapted — you may double-click the presets file or drag it over the DarkAdapted application icon to load its contents. You may also load a presets file from the **Edit Presets Window**, as described below.

Win Since DarkAdapted does not attempt to modify your Windows registry, double-clicking a presets file may not load the file.

You may edit your presets by selecting **Edit Presets...** from the *Presets:* pop-up menu, by selecting **Edit Presets...** from the **Edit** menu, or by typing **⌘E**. The **Edit Presets Window** appears, as shown below:



Edit Presets Window

Every preset that you have defined or imported from a file will appear in the scrolling list. Select all presets by choosing **Select All** from the **Edit** menu, or by typing **⌘A**.

To change the name of any preset, select the preset by clicking on its name in the scrolling list, then edit the *Preset Name:* in the *Selected Preset:* area of this window.

The selected preset's *Color Values* are also displayed here, with numbers between zero and 255 representing the values for the each color component (red, green, and blue). The displays for red, green, and blue are labeled *R:*, *G:*, and *B:* respectively.

You may change the red, green, and blue components of the selected preset by using the arrow controls to the right of each value.


The selected preset's gamma color is also displayed visually in a colored square which appears to the right of the *Color Values:* control area.

You may also use your operating system's Color Picker dialog to change the gamma hue; simply click on the colored square that appears to the right of the *Color Values:* controls.

It is also possible to specify that a preset can change certain **Control Window** options when the preset is selected. To specify that this preset should change the **Control Window** options *Gang Sliders* and *Maintain Relative Values*, click to select *Preset Changes Options:* Once selected, you may then toggle the state of the *Gang Sliders* control, and — when *Gang Sliders* is selected — also toggle the state of *Maintain Relative Values*.

Duplicate an entry by selecting it and clicking *Duplicate* to save a copy of a preset under a different name.

Delete any number of presets by selecting one or more list entries, then click the *Delete* button (or press the **DELETE** or **BACKSPACE** key). The selected preset(s) will be deleted after a confirming dialog.

 You may skip the confirm deletion dialog by holding down the **OPTION / ALT** key while deleting the entry as described above.

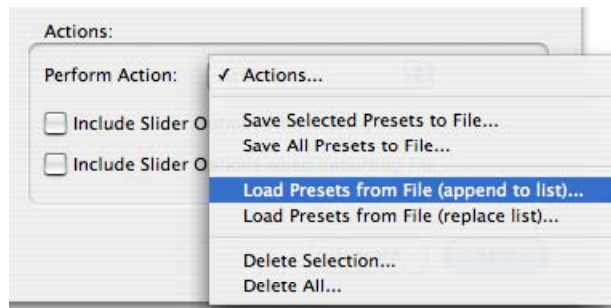
You may also change the order by which your presets appear in the **Control Window**'s *Presets:* pop-up menu. Simply click and hold on an entry, then drag it to the desired location in the listing.

You may also organize your presets by adding separators to your listing. Clicking the *Separator* button inserts a separator after the currently selected preset. If no preset is selected, a separator is added to the end of the listing.

DarkAdapted does not allow the following actions: adding a separator when another separator is selected, exporting only separators to a file, renaming a separator, or duplicating a separator.

The *Actions:* area of the **Edit Presets Window** offers several useful features, as described below

The pop-up menu labeled *Perform Action...* offers additional options when you click on the pop-up menu and hold down the mouse button, as depicted below:



The Perform Action Pop-up Menu

Select one of the options from this pop-up menu, as described below:

- When at least one preset is selected, you may choose *Save Selected Presets to File...* to summon a save dialog, where you may specify a name and disk location for the presets file. Only the selected preset(s) (and separators, if any) will be saved to the disk file.
- When one or more presets have been defined, you may choose *Save All Presets to File...* to summon a save dialog, where you may specify a name and disk location for the presets file. All presets and separators in the scrolling list will be saved to the disk file.
- When no presets have been defined, you may select *Load Presets from File...* to summon an open dialog, where you may select a presets file from any available disk. Any presets and separators in the disk file will populate the scrolling presets listing.
- When one or more presets have been defined, you may choose *Load Presets from File (append to list)...* to summon an open dialog, where you may select a presets file from any available disk. Any presets and separators in the disk file will be added to the end of the scrolling presets listing, and will become selected.
- When one or more presets have been defined, you may choose *Load Presets from File (replace list)...* to summon a file selection dialog, where you may select a presets file from any available disk. Any existing presets will be removed from the scrolling listing, and all presets and separators in the disk

file will populate the scrolling presets listing, and will become selected. You may suppress the warning dialog by holding down the **OPTION / ALT** key.

- When at least one preset is selected, you may choose *Delete Selection...* to remove the selected presets and/or separators from the listing. A confirming dialog will appear, but you may suppress it by holding down the **OPTION / ALT** key.
- When at least one preset has been defined, you may choose *Delete All...* to remove all presets and/or separators from the listing. A confirming dialog will appear, but it may be avoided by holding down the **OPTION / ALT** key.



When loading or saving presets files, the file selection dialog opens at the default presets file directory (folder). This folder is defined as being located in the same directory as DarkAdapted, containing “Presets” in the folder’s name. If no folder meets this requirement, DarkAdapted selects the first folder it may find containing presets files. You may override this behavior by holding down the **SHIFT** key while opening or saving presets files.



Presets may optionally change the **Control Window** options *Gang Sliders* and *Maintain Relative Values*, as described earlier. By default, DarkAdapted does not include this information in files that it saves and loads.

To save *Gang Sliders* and *Maintain Relative Values* information into your presets files, click to select *Include Slider Options when Saving File* — and then save the file as specified above.

To include any *Gang Sliders* and *Maintain Relative Values* information that may be present in a presets file that you are loading, click to select *Include Slider Options when Importing File* — and then load the file as specified above.

When you are satisfied with the changes you have made in the **Edit Presets Window**, click the **OK** button to implement your changes, or click *Cancel* to discard all changes you made since the window opened.

2.12 — Preset Sets (Pro Only)



Preset Sets are only available if you have upgraded to DarkAdapted Pro, or when you select *Try DarkAdapted Pro...* from the Special menu. To upgrade, select *Register DarkAdapted Pro...* from the Special menu.



You may set global hotkeys for any Preset Set, so that the Preset Set can be accessed from anywhere on your computer, no matter

which application program is in front. Setting hotkeys is described in [System-wide Menu Hotkeys](#).

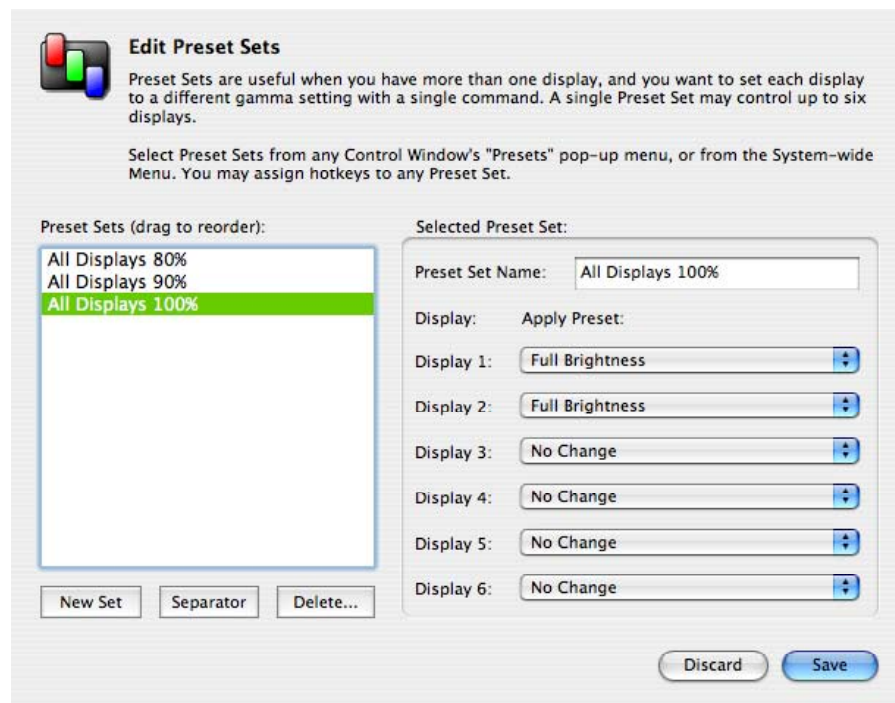
In multiple-display environments, it is often useful to change all displays in unison. *Preset Sets* allow you to control up to six connected displays simultaneously.

For example, you may define a Preset Set that changes your primary monitor to bright red, and your secondary display to dark red.

Define Preset Sets in the **Edit Preset Sets Window**, which you may access as follows:

- Select **Edit Preset Sets...** from any Control Window's *Presets:* menu, or
- Select **Edit Preset Sets...** from the Edit menu, or
- Select **Edit Preset Sets...** from the System-wide Menu, or
- Type **⌘** **[SHIFT]** **[E]**

The **Edit Preset Sets Window** is depicted below:



Edit Preset Sets Window

Existing Preset Sets appear in the scrolling listing labeled *Preset Sets (drag to reorder)*. Select a Preset Set by clicking on it. Select all Preset Sets by choosing

Select All from the Edit menu, or by typing **⌘** **[A]**. You may control the order in which Preset Sets appear by dragging the desired Preset Set to a new location in the scrolling list.

Create a new Preset Set by clicking the *New Set* button. The new Preset Set will appear in the *Preset Sets* listing, and you may change its name and options in the *Selected Preset Set:* section of this window.

You may specify an option for each of up to six connected displays, using the pop-up menu that appears next to the desired display. Display 1 is your primary display (the one containing the menu bar), and you may define actions for up to give other displays, even if they are not presently connected.

For each display, you may select an existing gamma preset from each pop-up menu. You may also select *No Change*, which means that the desired display will be unaffected when the Preset Set is selected.

Preset Sets that you define will appear in most of the same places as regular gamma presets, namely:

- In any **Control Window's** *Presets:* menu, and
- In the System-wide Menu

Preset Sets do *not* appear in the **Scheduling Window**, however. There, you may apply a given preset to all monitors, or simply create separate events for each desired display.

You may drag Preset Sets to different positions, to change their display order. As with gamma presets, you may add a separator after the selected Preset Set by clicking the *Separator* button.

Delete one or more selected Preset Sets by selecting the desired Preset Set(s), then click the *Delete...* button (or press the **[DELETE]** key). Skip the warning dialog by holding down the **[OPTION]** key as you click the *Delete...* button or press the **[DELETE]** key.

To save any changes you have made in the **Edit Preset Sets Window**, and to close the window, click the *Save* button. Click *Discard* to close the window without saving changes.

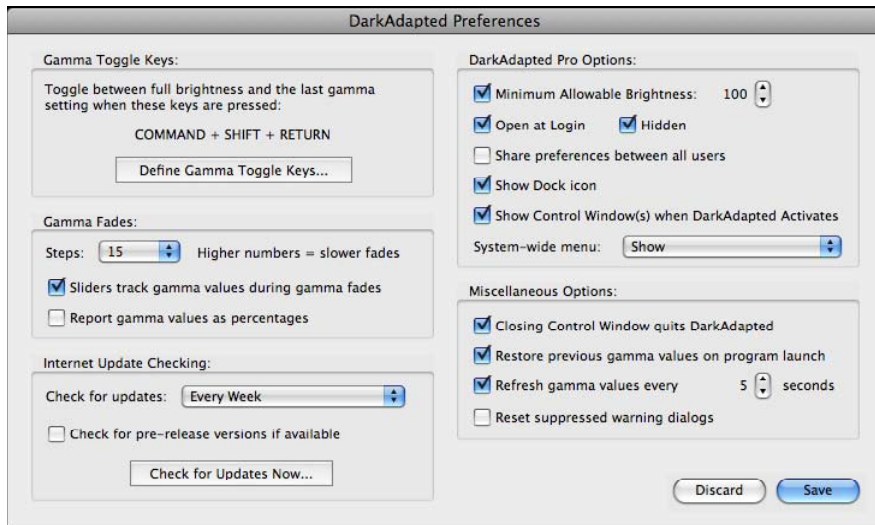
2.13 — Editing Preferences

To summon the **Preferences Window**, select the Preferences... menu item as described below, or type **⌘** **[,]** (comma).

Mac Select Preferences... from the DarkAdapted X menu.

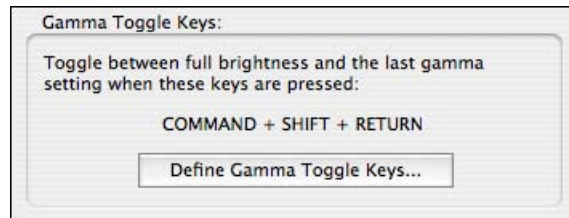
Win Select Preferences... from the Edit menu.

The **Preferences Window** will then appear, as depicted below:



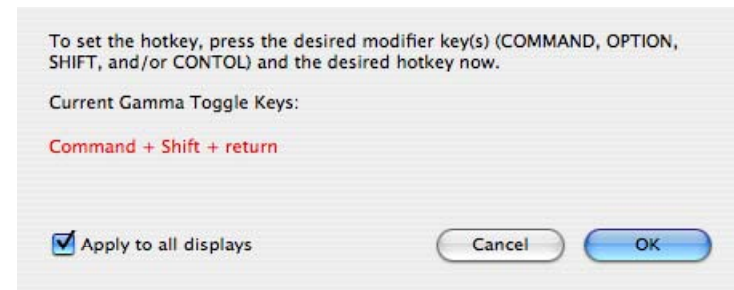
DarkAdapted Preferences Window

The **Preferences Window** is where you can customize DarkAdapted to suit your tastes and requirements. There are several groups of controls in this window, and each group is pictured and described below.



Gamma Toggle Keys — Preferences Window





The *Gamma Toggle Keys*: section, depicted above, allows you to select which keys — when held down simultaneously — will return your monitor(s) to full brightness. Pressing the keys again will restore the previous gamma setting. Click the *Define Gamma Toggle Keys...* button to change the gamma toggle keys, and one of the following windows appears, depending on your computer's operating system:








Set Gamma Toggle Keys Window — Macintosh



Set Gamma Toggle Keys Window — Windows

Mac Type any combination of modifier keys, plus the desired non-modifier key, to set the gamma toggle keys. Modifier keys are , , , and . Non-modifier keys are most other keys on your keyboard. At least one modifier key must be selected.

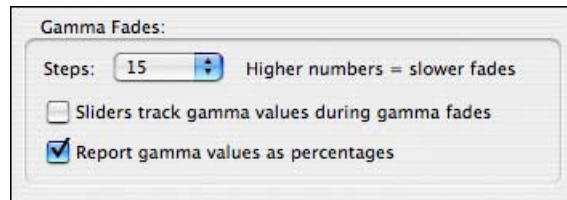
 Almost any Macintosh non-modifier key may be selected, including function keys and many other keys on the extended keyboard. Note that the numeric keys that appear above the letters on your keyboard are *not* the same as the numeric keys on your numeric keypad. This gives you greater flexibility in defining hotkeys.

Win Select any modifier key(s) by clicking to select the corresponding checkbox control, and type a non-modifier key to change the displayed key name. Modifier keys are , , , and . Non-modifier keys are most other keys on your keyboard. At least one modifier key must be selected.

Pro DarkAdapted Pro may control multiple displays independently. If you have registered DarkAdapted Pro for Macintosh, and wish to have the gamma toggle keys control all displays in unison, click to

select *Apply to all displays*. Leaving *Apply to all displays* applies the Gamma Toggle Keys to only the frontmost **Control Window**.

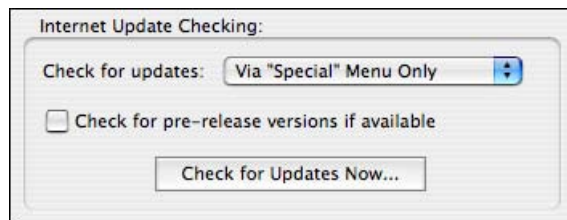
Click *OK* to save the changes you made to the gamma toggle keys, or click *Cancel* to close the window without changing the key combination.



Gamma Fades — Preferences Window

The section entitled *Gamma Fades*: contains three controls:

- The *Steps*: pop-up menu lets you control the speed of gamma transitions. Selecting “1” will result in a nearly instantaneous gamma transition. The default value of “60” results in a gamma fade which lasts approximately one second.
- Selecting the control labeled *Sliders track gamma values during gamma fades* causes the slider controls in the **Control Window** to move as their corresponding gamma values change.
- *Report gamma values as percentages* controls how the current gamma values are displayed to the right of the **Control Window**’s gamma control sliders. When selected, the readouts are populated with percentage values between zero and 100%. When this control is deselected, the slider readouts report the gamma value as integers between zero and 255. This controls display format only; functionality is not affected by this control’s setting.



Internet Update Checking — Preferences Window

The *Internet Update Checking*: section controls DarkAdapted’s version checking functionality, as described below:

- The *Check for updates*: pop-up menu controls whether DarkAdapted checks for updates manually, or automatically at a selectable inter-

val. Select *Via “Special” Menu Only* to check for newer versions of DarkAdapted only when you select **Check for Program Updates...** from the **Special** menu. If you select *Every Week*, DarkAdapted will check for a newer version every seven days. Selecting *Every Month* causes DarkAdapted to check for updates every thirty days.

- To also check for newer alpha or beta versions of DarkAdapted, click to select *Check for pre-release versions if available*. Pre-release versions of DarkAdapted always check for such releases, regardless of this control’s setting.

Click the *Check for Updates Now...* button to immediately check for program updates, which requires you to close the **Preferences** window.



An Internet connection must be established in order for update checking to occur. If you use a dialup or other Internet connection that is not always available, we recommend selecting *Via “Special” Menu Only* from the *Check for updates*: pop-up menu.

More information regarding Internet update checking will be found at [Internet Update Checking](#).



DarkAdapted Pro Options — Preferences Window

When you have registered DarkAdapted Pro for Macintosh, the *DarkAdapted Pro Options* control group is enabled.

Pro *DarkAdapted Pro Options* are described below, and are only available once you register DarkAdapted Pro. To upgrade, select **Register DarkAdapted Pro...** from the **Special** menu.

- If you want to avoid situations where your monitor becomes too faint to read, click to select *Minimum Allowable Brightness*. When this feature is selected, the brightness readout may be set to any value between 1 and 400, using the up and down arrow controls to the right of the readout.

When activated, *Minimum Allowable Brightness* causes the **Control Window**’s gamma sliders to enforce the total brightness limit that you set here. Each

of the **Control Window**'s gamma sliders (red, green, and blue), may be set to a value between 0 and 255. When you adjust one slider downward, this feature automatically adjusts the other two sliders (if necessary) in order to maintain the minimum brightness you have set.

The *Minimum Allowable Brightness* that you set is checked using the *sum* of all three gamma sliders.

If DarkAdapted Pro enforces your minimum brightness, the **Control Window**'s *R*, *G*, and *B* labels become enclosed in parentheses — (*R*), (*G*), and (*B*) — as a reminder that the displayed value reflects the minimum allowable brightness.

- If you would like DarkAdapted Pro to start every time you log in to your computer, select *Open at Login*. By default, DarkAdapted Pro configures your system so that DarkAdapted Pro opens at login, and remains visible. To instead hide DarkAdapted Pro when it opens at login, check both *Open at Login* and *Hidden*.



A bug in Mac OS X 10.4.x ("Tiger") prohibits the *Hidden* control from functioning. When using Tiger, you may open System Preferences → Accounts → Login Items to toggle the login visibility of DarkAdapted Pro.

- If you would like DarkAdapted Pro to share its preference file, no matter who is logged in, select *Share preferences between all users*. When you first select this control, DarkAdapted offers to import any existing shared preferences, or to apply your current preferences to all users.
- *Show Dock icon* controls whether DarkAdapted Pro appears in the Mac OS X dock. If you de-select this option, DarkAdapted will open without a dock icon the next time it is launched.

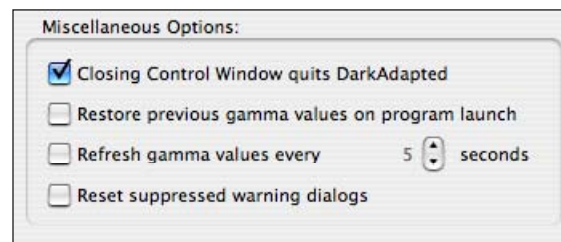


If you de-select *Show Dock icon* and set *System-wide menu* to *Hide*, then your only interface to DarkAdapted Pro will be via its **Control Window**(s). To configure DarkAdapted Pro at the **Control Window**, right-click (or [CONTROL]-click) in a non-control area of the window, and a contextual menu opens with the choices *DarkAdapted Preferences...*, *Show System-wide Menu...*, and *Quit DarkAdapted*. You may use one of these to restore your user interface.

If you also set the preference to de-select *Closing Control Window quits DarkAdapted*, then there will truly be no interface by which to control DarkAdapted Pro. If this occurs, DarkAdapted Pro will present a dialog which offers to show the System-wide menu, or at least enable its hotkeys, so you have some means by which to control DarkAdapted Pro.

If you opt to enable hotkeys only — and you have defined no hotkeys for setting menu hotkeys and quitting DarkAdapted Pro, then DarkAdapted Pro will add those hotkeys for you and display them in a dialog.

- The control labeled *Show Control Window(s) when DarkAdapted Activates* causes any hidden **Control Windows** to be shown when you return to DarkAdapted Pro from another application. To close **Control Windows** without quitting DarkAdapted Pro, make sure you do *not* select the preference *Closing Control Window Quits DarkAdapted*.
- The *System-wide menu*: pop-up menu allows you to control the visibility and behavior of DarkAdapted Pro's system-wide menu (☰). Select *Show* to reveal the system-wide menu at the right side of your menu. Select *Hide* to prevent the system-wide menu from appearing. Selecting *Hide, but enable hotkeys* causes the system-wide menu to not appear, but its hotkeys (keyboard shortcuts) continue to function.



Miscellaneous Options — Preferences Window

The *Miscellaneous Options*: controls are described below:

- Click to select *Closing Control Window quits DarkAdapted* if you want DarkAdapted to quit whenever any **Control Window** is closed (the default behavior). De-select this control to simply hide the **Control Window** using its close control. If you hide the window in this manner, you may again show it by selecting *Show Control Window* from the *Special* menu.

Win Because closing the **Control Window** will leave you with no menubar on the Windows platform, *Closing Control Window quits DarkAdapted* is disabled on Windows.

Pro DarkAdapted Pro users who de-select *Closing Control Window quits DarkAdapted* may quickly re-show all **Control Windows** by holding down the [SHIFT] key while clicking DarkAdapted Pro's Dock icon in Mac OS X. To upgrade, select *Register DarkAdapted Pro...* from the *Special* menu.

- When the control labeled *Restore previous gamma values on program launch* appears with a checkmark, then DarkAdapted will store the state of all gamma sliders (and the *Presets:* popup menu, if applicable) when you quit DarkAdapted. The next time you launch DarkAdapted, the screen gamma will be returned to the saved values.

Pro When you reopen DarkAdapted — and its previous state was set to control displays independently, all displays will be returned to their previous gamma values when *Restore previous gamma values on program launch* is selected.

- The *Refresh gamma values every N seconds* checkbox, when selected, causes DarkAdapted to re-implement your screen's gamma settings periodically. This may be used, for example, to retain your preferred gamma setting when entering and /or exiting a screen saver, which will usually interfere with DarkAdapted's settings. Use the small arrows to select a refresh frequency between 1 and 60 seconds.
- The control labeled *Reset suppressed warning dialogs* may be used to reset any warning dialog boxes that you have chosen not to display in the future, usually by selecting a *Don't show again* checkbox or clicking a *Suppress* button in a dialog. If you click to select *Reset suppressed warning dialogs*, all suppressed warnings will again show after you save the preferences by clicking the *Save* button.

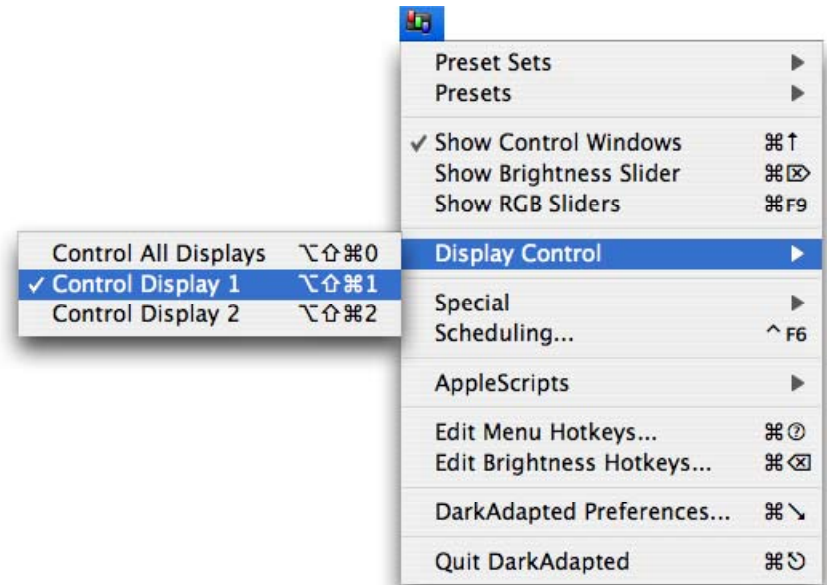
To implement any changes made in the **Preferences Window**, click the *Save* button, or click *Discard* to close this window without saving your changes.

2.14 — The System-wide Menu (Pro Only)


Pro The system-wide menu is only available if you have upgraded to DarkAdapted Pro, or when you select *Try DarkAdapted Pro...* from the **Special** menu. To upgrade, select *Register DarkAdapted Pro...* from the **Special** menu.

When you first register DarkAdapted Pro (or when you select *Try DarkAdapted Pro...* from the **Special** menu), the system-wide menu (🍎) automatically appears near the right side of your menu bar. You may choose to hide it by modifying [the appropriate control](#) in the **Preferences Window**.

The menu is illustrated below:



DarkAdapted Pro's System-wide Menu

 You may set global hotkeys for any item in DarkAdapted's system-wide menu, so that any menu command can be accessed from anywhere on your computer, no matter which application program is in front. Setting menu hotkeys is described later in this section.

The various menu selections of the system-wide menu are discussed below.

If you have defined any Preset Sets (as described in [Preset Sets](#)), the first menu entry is labeled **Preset Sets**. When selected, a submenu opens where you may select any Preset Set that you have defined. The submenu also includes the command *Edit Preset Sets...*, which opens the **Edit Preset Sets Window**.

The next menu entry is labeled **Presets**. When selected, a submenu opens where you may select any of DarkAdapted Pro's built-in gamma presets, or any preset that you have added. The submenu also includes the commands *Save Current Screen as Preset...* and *Edit Presets...*, which bring up the **Save Preset Window** and the **Edit Preset Window**, respectively. [Saving presets](#) and the [managing presets](#) are described in earlier sections.

The next menu item, Show Control Windows, appears with a checkmark when at least one **Control Window** is open. Select this menu item to alternately show or hide the **Control Windows**.

Selecting Show Brightness Slider causes the **Brightness Window** to appear:



DarkAdapted Pro's Brightness Window

You may select to control all displays, or a single display, from the *Display:* pop-up menu. Pressing the **[D]** key cycles between all connected displays, while pressing the **[A]** key selects all displays. After you select from the pop-up menu, the cursor moves to the brightness slider's handle.

Moving the slider to the left dims the display, and moving it to the right brightens the display. This control retains the relative values of red, green, and blue on the selected display.

The slider may also be moved using your mouse's scroll wheel. Scroll up to increase brightness, or scroll down to decrease brightness.

You may also move the brightness slider via the keyboard. To move the slider to the right, hold down one of the modifier keys **⌘**, **[OPTION]**, or **[CONTROL]** — and press the **[→]** or **[↑]** key. To move the slider to the left, hold down one of the modifier keys **⌘**, **[OPTION]**, or **[CONTROL]** — and press the **[←]** or **[↓]** key.



The window opens so that the slider's handle appears under the mouse, unless doing so would cause the window to move partially off the screen, in which case the cursor is repositioned to appear over the slider's handle. Thus, you will never need to reposition your cursor in order to start changing the brightness.



Unlike the **Control Window** and the **RGB Sliders Window**, the **Brightness Window** displays the brightness *percentage* only; there is no way to toggle the display to show a “raw” brightness value. This is because there *is* no “raw” brightness value; the number of steps between zero and full brightness varies, depending on the screen gamma value when you first open the **Brightness Window**.

You may also type a numeric brightness value using the keyboard. Enter a valid number between zero and 100%, and the screen brightness will update

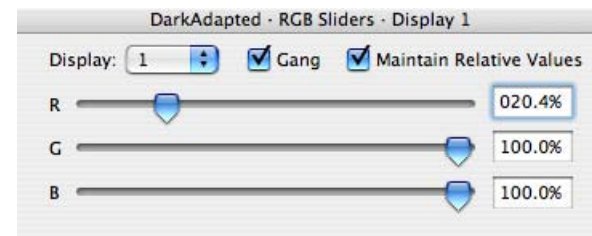
when you press the **[TAB]**, **[RETURN]**, or **[ENTER]** key. Pressing the **[ESCAPE]** key updates the screen brightness and closes the **Brightness Window**.



Some systems may prevent text entry in the **Brightness Window**, because some software additions and system revisions do not allow floating windows to receive the focus for entering text.

The control disappears when the mouse leaves the **Brightness Window**. To help you avoid accidentally closing the window, DarkAdapted waits until the mouse is at least 30 pixels outside of the window's border before the window closes.

When you select Show RGB Sliders from the menu, the **RGB Sliders Window** appears:




DarkAdapted Pro's RGB Sliders Window

You may select to control all displays, or a single display, from the *Display:* pop-up menu. Pressing the **[D]** key cycles between all connected displays, while pressing the **[A]** key selects all displays. After you select from the pop-up menu, the cursor moves to the *Red* slider's handle.

The controls in this window function identically to those in the **Control Window**, which was discussed previously; the *R*, *G*, and *B* sliders control the selected display's red, green, and blue gamma values respectively, the *Gang* control functions identically to the **Control Window's** *Gang Sliders* control, and the *Maintain Relative Values* functions identically to the control named *Maintain Relative Values* in the **Control Window**.

The sliders may be moved in unison using your mouse's scroll wheel.


You may also move the sliders via the keyboard. First, select the text to the right of the slider you wish to change. You may select the text by clicking in the text display, or by pressing the **[TAB]** key. To move the selected slider to the right, hold down one of the modifier keys **⌘**, **[OPTION]**, or **[CONTROL]** — and press the **[→]** or **[↑]** key. To move it to the left, hold down one of the modifier keys **⌘**, **[OPTION]**, or **[CONTROL]** — and press the **[←]** or **[↓]** key.

 The window always opens so that the red (top) slider's handle appears under the mouse, unless doing so would cause the window to move partially off the screen, in which case the cursor is repositioned to appear over the slider's handle. Thus, you will never need to reposition your cursor in order to start changing the sliders in ganged mode.

You may toggle the state of *Gang* by pressing the **[G]** key on your keyboard. If *Gang* is active, you may also toggle the state of *Maintain Relative Values* by pressing the **[M]** key.

You may also use your keyboard to type numeric gamma values, entering these values as raw values or as percentages.

As with the [Control Window](#), you may press the **[TAB]** key to alternately select red, green, and blue values sequentially (or select in reverse order by typing **[SHIFT]** **[TAB]**).

 Some systems may prevent text entry in the **RGB Sliders Window**, because some software additions and system revisions do not allow floating windows to receive the focus for entering text.

Once a gamma value is selected, you may numerically specify gamma values using the keyboard. As with the [Control Window](#), you may type a number *without* a percent sign to specify a gamma value between 0 and 255, and you may type in a number *with* a percent sign to enter a percentage. You may also press the **[SPACE]** key to toggle between percentage and raw gamma modes.

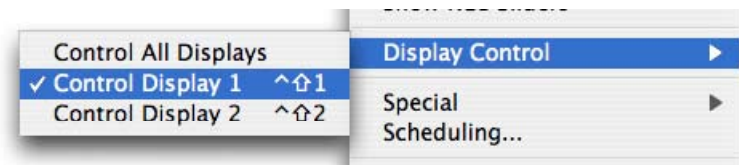
When you change between raw gamma value and percentage display, all displays will change to show gamma values in the same format, and the state of *Report Gamma Values as Percentages* in the [Preferences Window](#) will also change, if necessary.

The screen's gamma will update when you press the **[TAB]**, **[RETURN]**, or **[ENTER]** key. Pressing the **[ESCAPE]** key updates the gamma and closes the **RGB Sliders Window**.

The window disappears when the mouse leaves the **RGB Sliders Window**. To help you avoid accidentally closing the window, DarkAdapted waits until the mouse is at least 30 pixels outside of the window's border before the window closes.

If you have more than one display attached to your computer, the Display Control menu appears in the system-wide menu. In its submenu, you may

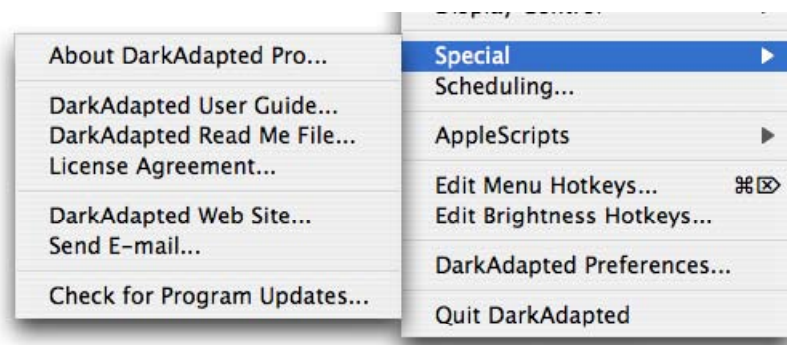
select Control All Displays, or select the desired display number, as illustrated below:



DarkAdapted Pro's Display Control Menu

The Display Control submenu is where you define which display will be affected by the menu commands Show Brightness Slider, Show RGB Sliders..., the *brightness hotkeys* (described in [Setting Brightness Hotkeys](#)), and any selection from the Presets submenu.

The Special menu in the system-wide menu contains several selections, as illustrated below:



DarkAdapted Pro's Special Menu

The following items appear in the Special submenu:

- The menu item About DarkAdapted Pro... brings up the **About Window**, which provides version and copyright information.
- The three documentation-related menu items — DarkAdapted User Guide..., DarkAdapted Read Me File..., and License Agreement... — attempt to open these documentation .pdf files, if they can be located. DarkAdapted Pro expects to find these documents in the same folder as DarkAdapted Pro, or in a subfolder named "Documentation." If located, DarkAdapted Pro attempts to open one of these documents using your default reader for .pdf files.

- Selecting **DarkAdapted Web Site...** opens your default web browser, and attempts to connect to our web site: www.darkadapted.com. You must be connected to the Internet, and your system must support automatically opening your web browser — in order for this command to function.
- Select the menu item **Send E-mail...** to open your default e-mail client, pre-addressed with our support e-mail address, and a subject line indicating your DarkAdapted version. In order for this to work, your system must support automatically opening your e-mail program

The **Scheduling...** menu item brings up DarkAdapted Pro's **Scheduling Window**, as described in [Scheduled Event Execution](#).

DarkAdapted can execute AppleScripts via the system-wide menu or via global hotkeys. The menu item **AppleScripts...** provides access to these scripts, and it is described in [Running AppleScripts](#).

A menu item entitled **Edit Menu Hotkeys** allows you to set global keyboard equivalents for any menu item in the system-wide menu, as described in [System-wide Menu Hotkeys](#).

The next menu item in the system-wide menu is labeled **DarkAdapted Pro Preferences....** Select this item to open the **DarkAdapted Preferences** window, which is described in [Editing Preferences](#).

Finally, the menu item **Quit DarkAdapted** quits the program.

2.15 — System-wide Menu Hotkeys (Pro Only)

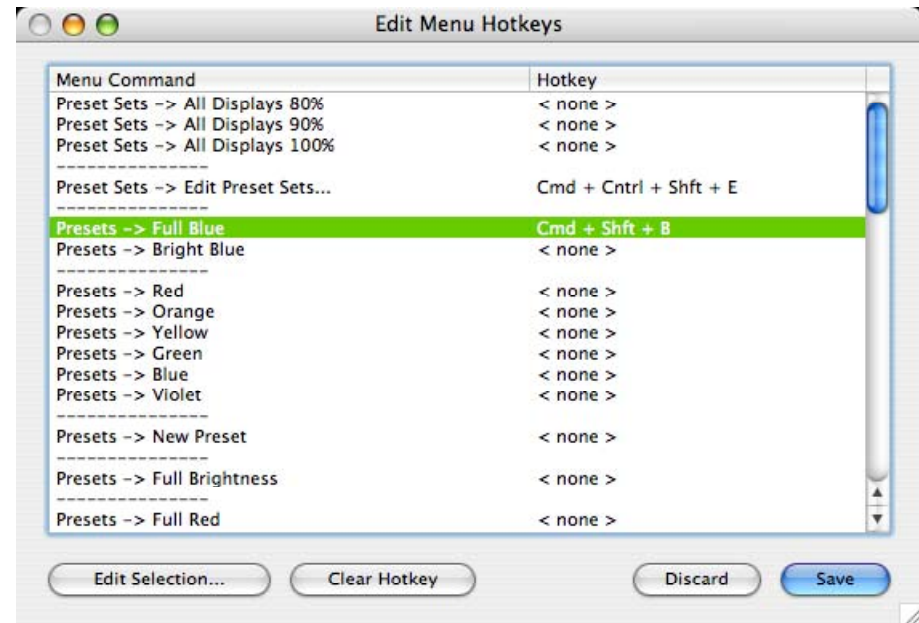
Pro The system-wide menu (⌘) and its associated hotkeys are only available if you have upgraded to DarkAdapted Pro, or when you select **Try DarkAdapted Pro...** from the **Special** menu. To upgrade, select **Register DarkAdapted Pro...** from the **Special** menu.

You may invoke any item in DarkAdapted Pro's system-wide menu (⌘) via global hotkeys. Global hotkeys are simply keyboard shortcuts that operate from within any application, as long as DarkAdapted Pro is also running.



System-wide hotkeys are available when you configure the [system-wide menu: preference](#) in the **Preferences Window** to either “*Show*” or “*Hide, but enable hotkeys.*”

You may set system-wide hotkeys by selecting **Edit Menu Hotkeys...** from the system-wide (⌘) menu. When you do so, the **Edit Menu Hotkeys** window appears, as pictured below:



Edit Menu Hotkeys Window

The scrolling listing contains two columns: *Menu Command* and *Hotkey*. The *Menu Command* column displays every menu item available in the system-wide menu, along with the associated hotkeys in the *Hotkey* column.

Setting and editing hotkeys will be covered below.

If you have one or more hotkeys set up, and would like to clear the hotkey(s) so that no hotkey is activated for the desired menu command(s), simply click to select one or more entries in the scrolling list, then click the *Clear Hotkey* button.

The *Discard* button, when clicked, closes the **Edit Menu Hotkeys** window without saving any changes you may have made to the hotkeys. Click the *Save* button to save the hotkeys and close the window.

To set or change a menu command's hotkey, do one of two things:

- Select the menu command in the scrolling listing, then click the *Edit Selection...* button, or
- Double-click the desired menu command in the scrolling listing.

Once you perform one of the above actions, the **Set Menu Hotkey** window opens, as illustrated below:



Set Menu Hotkey Window

This window reminds you of which menu command you are currently editing in the display region that begins *Current Hotkey for*, followed by the system-wide menu name. When the menu item is a submenu, its parent menu comes first, followed by “->” and the menu item itself.

To set a hotkey, press and hold the desired modifier keys (⌘, SHIFT, OPTION and/or CONTROL), then — *while still holding down the modifier keys* — press the desired non-modifier hotkey.

💡 Almost any non-modifier key may be selected, including function keys. Note that function key equivalents may not display properly in the system-wide menu (⌘), but they will function normally. This is a display issue that we are attempting to work around.

💡 Note that the numeric keys that appear above the letters on your keyboard are *not* the same as the numeric keys on your numeric keypad. This gives you greater flexibility in defining hotkeys.

After you have pressed the desired key combination, release the keys and observe the state of the red text display, which should correspond to the keys you just typed. When you are satisfied with your hotkey, click the *OK* button to close the **Set Menu Hotkey** window and return to the **Edit Menu Hotkeys** window. Click *Cancel* to close the window without changing the hotkey.

2.16 — Setting Brightness Hotkeys (Pro Only)

Pro The brightness hotkeys are only available if you have upgraded to DarkAdapted Pro, or when you select Try DarkAdapted Pro... from

the **Special** menu. To upgrade, select Register DarkAdapted Pro... from the **Special** menu.

You may brighten or dim the selected screen(s) via global hotkeys. Global hotkeys are simply keyboard shortcuts that operate from within any application, as long as DarkAdapted Pro is also running.

You may set up brightness hotkeys by selecting Edit Brightness Hotkeys... from the system-wide menu (⌘). The **Edit Brightness Hotkeys** window then appears, as depicted below:



Edit Brightness Hotkeys Window

The *Step*: control at the bottom of this window defines the number of brightness steps that DarkAdapted Pro uses when dimming or brightening the display(s). The number may be adjusted between 1 and 20 via the arrow controls. A *Step*: of 1 produces a brightness change of about 0.4% per keypress, while a *Step*: of 20 produces a change of about 7.8%.

💡 Unlike DarkAdapted Pro’s other hotkeys, the brightness hotkeys *repeat* when you hold them down. The screen will continue to change in brightness until you release the brightness hotkey.

To set a hotkey for brightening or dimming the display(s), click the *Set Hotkey...* button in the controlling region matching the desired action (*Hotkey to Brighten Selected Screen* or *Hotkey to Dim Selected Screen*). When you


click one of these buttons, the **Set Brightness Hotkey** window appears, as illustrated below:




Set Brightness Hotkeys Window

The text display that begins with “*Current Hotkey*” reminds you which brightness hotkey you are editing. The red text displays the current brightness hotkey, if any.

To set a hotkey, press and hold the desired modifier keys (⌘, SHIFT, OPTION and/or CONTROL), then — *while still holding down the modifier keys* — press the desired non-modifier hotkey.

 Almost any non-modifier key may be selected, including function keys and many other keys on the extended keyboard. Note that the numeric keys that appear above the letters on your keyboard are *not* the same as the numeric keys on your numeric keypad. This gives you greater flexibility in defining hotkeys.

After you have pressed the desired key combination, release the keys and observe the state of the red text display, which should correspond to the keys you just typed. When you are satisfied with your brightness hotkey, click the **OK** button to save your new hotkey and return to the **Edit Brightness Hotkeys** window. Click the *Cancel* button to close the **Set Brightness Hotkey** window without changing the brightness hotkey.

The brightness hotkeys will apply to whatever display you have selected using the **Display Control** command of the system-wide menu () , or — if the system-wide menu is not showing — the following displays:


- The main display when **Control Displays Independently** (in the **Edit** menu) is selected.
- All displays when **Control Displays Independently** (in the **Edit** menu) is *not* selected.


Click *Save* in the **Edit Brightness Hotkeys** window to save your brightness hotkeys and close the window. Click *Discard* to close the **Edit Brightness Hotkeys** window without saving any changes you may have made.

2.17 — Running AppleScripts (Pro Only)

Pro AppleScript execution is only available if you have upgraded to DarkAdapted Pro, or when you select **Try DarkAdapted Pro...** from the **Special** menu. To upgrade, select **Register DarkAdapted Pro...** from the **Special** menu.

DarkAdapted Pro looks for AppleScripts (with the `.scpt` extension) in a folder named **AppleScripts**, which must reside in the same folder that contains DarkAdapted Pro.

When one or more AppleScripts are located in this folder, an menu item named **AppleScripts** appears in the system-wide menu () . You may execute any AppleScript, from within any application, by selecting its name from the **AppleScripts** submenu.


 You may also define **hotkeys** that execute your preferred AppleScripts system-wide. Setting hotkeys for system-wide menu items is discussed in [System-wide Menu Hotkeys](#).

2.18 — Independent Display Control (Pro Only)

Pro Independent display control is only available if you have upgraded to DarkAdapted Pro, or when you select **Try DarkAdapted Pro...** from the **Special** menu. To upgrade, select **Register DarkAdapted Pro...** from the **Special** menu.

By default, DarkAdapted controls all monitors using a single **Control Window**. To instead use separate **Control Windows** to control multiple monitors, select **Control Displays Independently** from the **Edit** menu (or type ⌘⌘). This will open multiple windows, one for each connected display.

When in independent display mode, the **Control Displays Independently** menu item appears with a check mark next to it.

 If DarkAdapted Pro is set to *not* control displays independently, and a scheduled event specifies that a gamma fade should apply to a specific display, DarkAdapted Pro will automatically enable independent display control before executing the event.

DarkAdapted Pro saves the state of independent display control across launches.

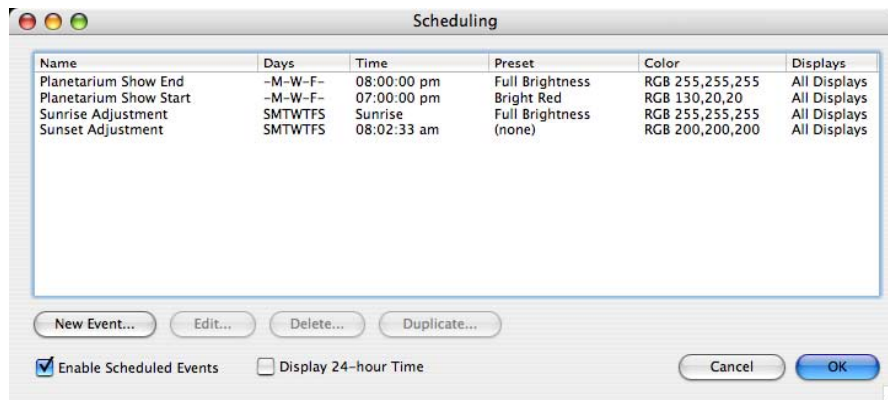
2.19 — Scheduled Event Execution (Pro Only)

Pro Scheduled event execution is only available if you have upgraded to DarkAdapted Pro, or when you select **Try DarkAdapted Pro...**

from the **Special** menu. To upgrade, select **Register DarkAdapted Pro...** from the **Special** menu.

Many users desire gamma fading that operates on a schedule. For example, a planetarium operator may desire that DarkAdapted Pro dim the screen at the beginning of a show, or an air traffic controller may wish to brighten the screen at sunrise.

DarkAdapted Pro provides a flexible event scheduling mechanism, which is accessed via the **Scheduling Window**. The window may be activated by selecting **Scheduling...** from the **Edit** menu, or by typing **⌘G**, in which case the **Scheduling Window** appears, as illustrated below:



Scheduling Window

The control labeled *Enable Scheduled Events* specifies whether DarkAdapted Pro should execute any events you have defined. When the control appears with a check mark, DarkAdapted Pro adjusts gammas according to your predefined schedule. To prevent scheduled events from executing, click to remove the check mark from *Enable Scheduled Events*.

Click to select *Display 24-hour Time* to display the time values in the **Scheduling Window** and **Edit Event Window** in 24-hour time, rather than am/pm time format. This control only affects the display of time, not the time of scheduled events.

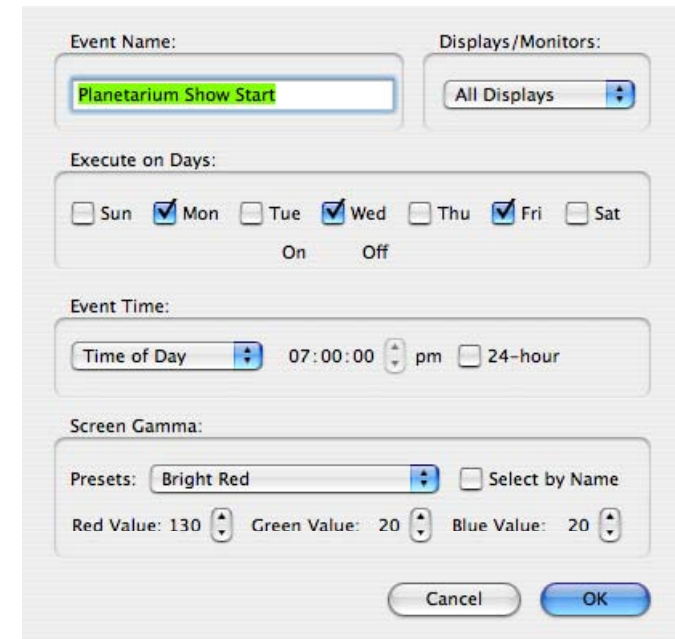
All events you have defined will appear in this window's scrolling display. You may select an event by clicking on the entry, or select multiple events by clicking while holding down your system's multiple-selection modifier key.

When one or more events are selected you may delete the selected event(s) by clicking the *Delete...* button. The events will be deleted after you confirm your decision in a dialog box, although you may skip the warning by holding down the **OPTION** key while clicking *Delete...*

To make a copy of the selected event, click the *Duplicate* button. The copy appears with a period and a number at the end, and is selected in the sorted list. You may then edit the copy as necessary.

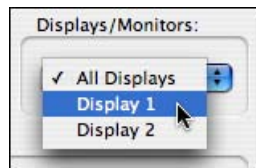
You may edit an event by selecting a single event, then clicking the *Edit...* button. You may also edit an event by double-clicking on the event in the scrolling listing.

You may create a new event at any time by clicking the *New Event...* button, in which case the **Edit Event Window** appears, as illustrated below. The **Edit Event Window** also appears when you edit an existing event.



Edit Event Window

Type a descriptive name for the event in the *Event Name*: text entry field. DarkAdapted Pro will warn you if you attempt to add an event with the same name as an existing event.




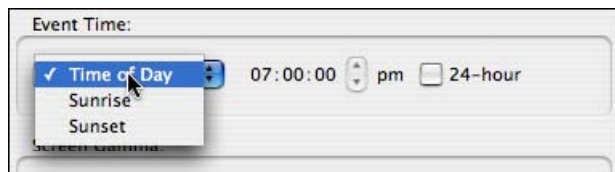
If you wish for your event to control all monitors in unison, select *All Displays* from the *Displays/Monitors:* pop-up menu. To instead control only a single monitor, select the display number from the pop-up menu.



The *Execute on Days:* controls allow you to specify the days of the week that your event should execute. DarkAdapted Pro requires that you select at least one day of the week in order to save the event.

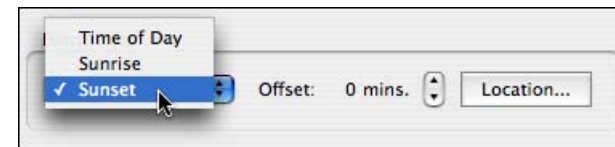
Click the *On* control to select all days of the week; click the *Off* control to deselect all days. Drag either control over one or more days of the week to apply the desired action to every day of week control that you drag over.

 Dragging the *On* or *Off* control to the desired day(s) of the week eliminates repetitive mouse-clicking, which is especially useful if you are defining several events. For example, to select only the weekend days (Sunday and Saturday), click *On* to select all of the days (if necessary), then drag the *Off* control across the weekdays to turn them off.



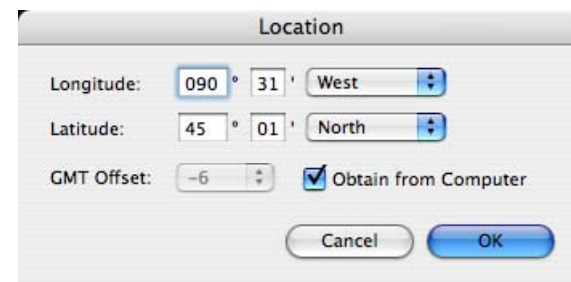
The *Event Time:* region is where you specify the time of day that the event should execute. From the pop-up menu, you may select *Time of Day*, *Sunrise*, or *Sunset*.

- When *Time of Day* is selected, a control appears wherein you may adjust the hour, minute, second, of the event. If you select *24-hour*, the time will be displayed in 24-hour format; when de-selected, you may also click to adjust the *am/pm* indicator. When you click on the hours, minutes, or seconds region of the control, it begins flashing. When a value is flashing, you may use the arrow controls to adjust it upward or downward. The flashing ceases after five seconds, or when you click another region in the control.



- When you select either *Sunrise* or *Sunset*, two controls appear. One is labeled *Offset*, and specifies how many minutes before or after sunrise/sunset the event should occur. You may adjust the *Offset* up or down by means of the arrow controls. So, for example, to define an event that will execute 30 minutes before sunset, select *Sunset* from the pop-up menu, then click the “down” arrow control until the *Offset* reads “-30” minutes. The *Offset* may be adjusted in one-minute increments, with a minimum of -60 and maximum of 60 minutes. The *Location* control is explained below.

When you define an event as occurring based on sunrise or sunset time, DarkAdapted Pro requires your location on Earth in order to provide accurate times. If you have never specified your location, the **Location Window** appears the first time you select *Sunrise* or *Sunset* from the pop-up menu. Thereafter, you may click the *Location...* button to change your location. The **Location Window** is depicted below:



Location Window

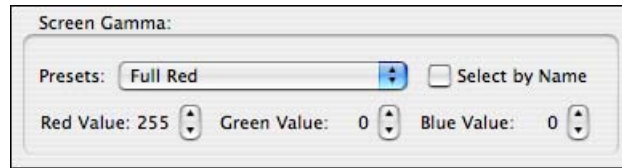
Your longitude and latitude may be obtained from an atlas, or via the Internet. Longitude is expressed in degrees and minutes; select *West* from the pop-up menu if your location is west of the Greenwich meridian (longitude increases as you move westward), or select *East* if your location is east of Greenwich (longitude increases as you move eastward).

Latitude is also expressed in degrees and minutes. Select *North* from the pop-up menu if your location is north of the equator; otherwise, select *South*.

GMT Offset is the number of hours that your time zone differs from Greenwich Mean Time. This value will change throughout the year if you observe day-light saving time. In most cases, it is best to select *Obtain from Computer*. You may also click to deselect *Obtain from Computer* and choose your offset manually from the pop-up menu, but be aware that choosing a manual adjustment

will not automatically compensate for daylight saving time, if observed in your locale.


Click **OK** to save your changes, or **Cancel** to discard them. If no valid location is specified, the *Event Time* pop-up menu in the **Edit Event Window** changes back to *Time of Day*. Closing the **Location Window** returns you to the **Edit Event Window**.



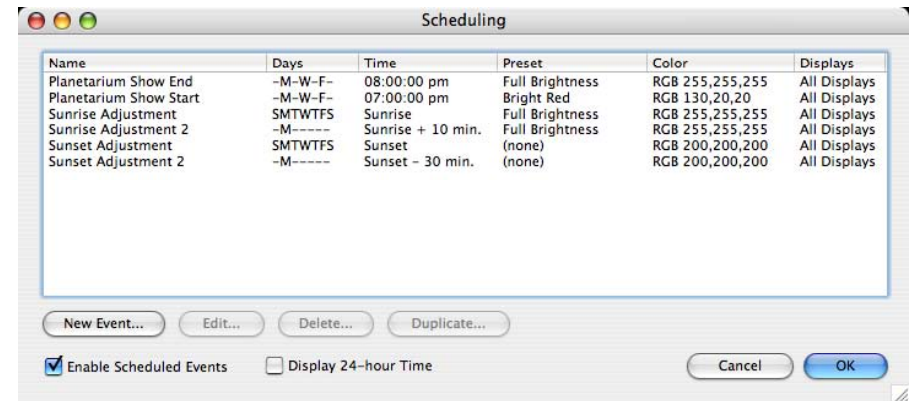
The **Edit Event Window's** *Screen Gamma:* region is where you specify the gamma color that will be applied to the desired screen(s) when the event executes. You may select an existing preset via the *Presets:* pop-up menu, or define custom red, green, and blue values.

Clicking *Select by Name* forces DarkAdapted Pro to select the gamma color by its Preset name. This can be useful if you plan on replacing a preset (in the **Edit Presets Window**) with one with an identical name, but different color values. This saves the effort of redefining your events with different colors.

In most cases, however, it is best to leave *Select by Name* unchecked.

 If you delete a preset that is used by one or more scheduled events, DarkAdapted Pro will still be able to set the screen gamma to the deleted preset's former values, *unless* you check the *Select by Name* option. This is why it's best to leave *Select by Name* unchecked.

To save the changes you made in the **Edit Event Window**, click the **OK** button, and the window closes. To close the window without saving changes, click **Cancel**.



Scheduling Window

The various columns in the **Scheduling Window** include *Name*, which is simply the name you specified for the scheduled event in the **Edit Event Window**.

The *Days* column provides a visual representation of the days of the week on which the event will execute. Each entry in this column consists of seven characters, one for each day of the week, starting with Sunday and ending with Saturday.

If a scheduled event will execute on a particular day of the week, the first letter of the day's name appears; otherwise, a hyphen ("–") appears. So, an entry in the *Days* column of "**S**-----" denotes an event that occurs on Sunday only; the entry "**SMTWTFS**" indicates that an event occurs every day; and an entry reading "**---W-F--**" denotes an event that occurs only on Wednesdays and Fridays.

The *Time* column will display either the event's time of day, or that the event occurs at sunrise or sunset. If an event specifies sunrise or sunset, the offset (if any) in minutes appears here also.

The column titled *Preset* denotes the gamma preset applied to the event, if any. If the gamma value was specified manually in the **Edit Event Window**, the text "(none)" appears instead.

Color indicates the color that will be applied to the screen(s) when the event executes. If the **Edit Event Window** is used to specify *Select by Name*, as described above, the text "(select by name)" appears here, and DarkAdapted Pro will select the preset by its name when the event executes.

The *Displays* column indicates which display(s) will be affected by the scheduled event when it executes.

To save changes to the listed events, click the **OK** button, which also closes the **Scheduling Window**. Clicking **Cancel** closes the window, discarding any

changes made since the **Scheduling Window** last opened, including any changes made in the **Edit Event Window**.

2.20 — Internet Update Checking

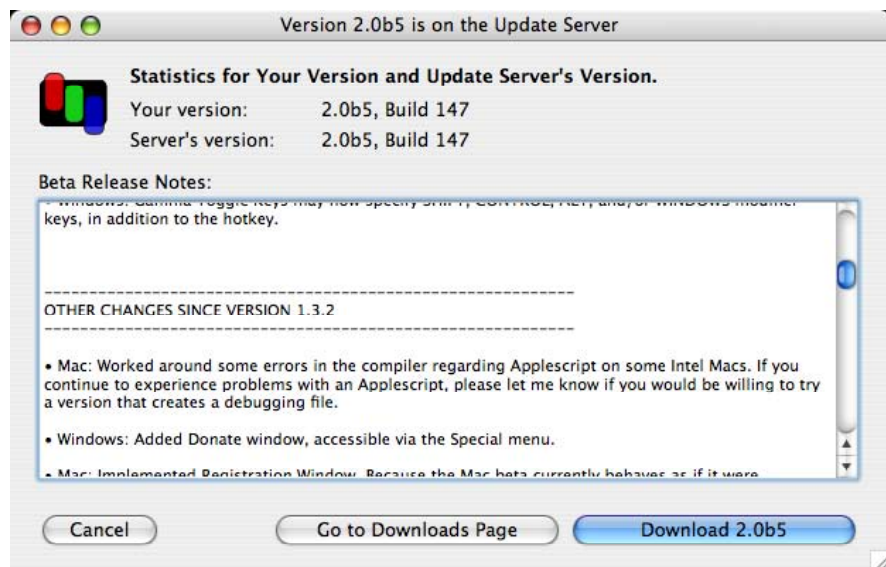
DarkAdapted is able to check for newer versions, provided you have an active Internet connection.



Many error messages are the result of an inactive Internet connection. Make sure you are connected to the Internet before attempting to use DarkAdapted's Internet update checking.

To check for newer program versions, select **Check for Program Updates...** from the **File** menu.

If no update is required — DarkAdapted will present a dialog confirming that you are already up-to-date. If DarkAdapted determines that a newer version is available, the **Update Window** opens, as depicted below:



Update Window

Near the top of this window are listed the Version and Build Number for the currently-running copy of DarkAdapted ("Your Version:") and for the *Newer Version*: available via the Internet.

The scrolling list may contain the latest changes in the new version, special instructions, program news, etc. The **Copy** command in the **Edit** menu may be used to transfer this text to another program.

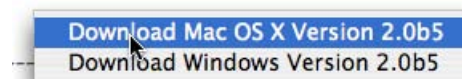
Click the *Download Newer Version* button (at the bottom-right corner of the **Update Window**) to begin the download. A standard dialog will appear, where you may select the download destination and optionally change the download's name.

Once the download begins, the two buttons *Go to Downloads Page* and *Download Newer Version* will disappear, replaced by a download progress display which reports the download's status both numerically and graphically.

During a download, the *Cancel* button serves to terminate the download and close the window, after a warning dialog. When no download is in progress, clicking *Cancel* simply closes the **Update Window**.

Click the *Go to Downloads Page* button to open your default web browser and display DarkAdapted's downloads page.

When you click the *Download Newer Version* button, the version of DarkAdapted that matches your platform (Mac OS X or Windows) is automatically selected for download. To instead download DarkAdapted for a different computing platform, right click (Mac: control-click) in a blank area of the **Update Window** to summon the window's contextual menu, as shown below:



Update Window's Contextual Menu

Select the desired version from the menu, then download the file to the desired location.

After successfully downloading an update, DarkAdapted instructs you to quit the program, expand the archive, and launch the new version to complete the update process.



You may force the **Update Window** to show — even if a newer version is not available — by holding down the **OPTION / ALT** key while you select **Check for Program Updates...** from the **File** menu. In such cases, some of the text in the **Update Window** will change, and the *Download Newer Version* button's name will change to reflect the update server's version.

2.21 — Custom System-wide Menu Icon (Pro Only)



The system-wide menu is only available if you have upgraded to DarkAdapted Pro, or when you select **Try DarkAdapted Pro...** from

the Special menu. To upgrade, select Register DarkAdapted Pro... from the Special menu.

DarkAdapted Pro normally displays a small DarkAdapted icon (🌑) to represent the system-wide menu. Experienced users may change this icon to, for example, match a particular menubar theme.

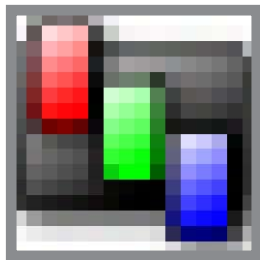
When launching, DarkAdapted Pro checks for a folder named “CustomIcon” (without the quotation marks) in the same folder as DarkAdapted Pro. It checks for the following two files inside the “CustomIcon” folder:

- DAIcon
- DAMask

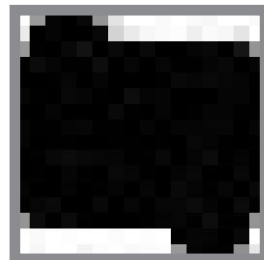
These two files should each be 16 pixels wide by 16 pixels high, and may include an extension (such as .jpg). If QuickTime is installed on your system, DarkAdapted Pro can read most graphics formats. If QuickTime is not installed, only PICT files are supported.

The “DAIcon” file should contain your graphic of choice. The “DAMask” file should contain white pixels for any region that should be transparent, and black pixels for any region that should be visible.

Here are sample “DAIcon” and “DAMask” files — greatly enlarged — that represent the standard DarkAdapted Pro icon:

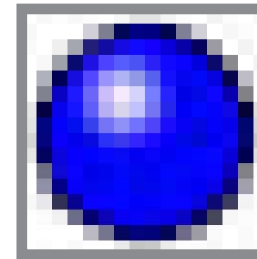


DAIcon

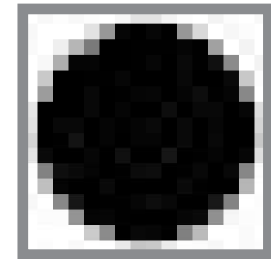


DAMask

Here is a simple example of a “ball” icon:



DAIcon



DAMask

Make sure that your images are exactly 16 pixels wide and high, that they are in a format that DarkAdapted supports, that you have named the files correctly (including the correct file extension), and that they are in the proper location, with a properly-named parent folder.

Section 3: AppleScript Guide

3.1 — Introduction

Mac This section applies only to users running DarkAdapted for Mac OS X or Mac OS Classic. If you are using DarkAdapted for Windows, you may skip this section.

DarkAdapted contains extensive AppleScript support, allowing you to control almost every program feature and setting. This enables automated control of DarkAdapted from other programs or simple AppleScripts.

Additionally, you may obtain information concerning the current screen gamma, and store/retrieve preference settings.

A sample AppleScript is included with the standard DarkAdapted download.

3.2 — Command Reference

The following tables summarize DarkAdapted’s AppleScript support. In the examples, the “↵” character indicates that the script’s line wraps to the following line; do not include the “↵” character in your script.

Command:	activate
Syntax:	activate
Function:	Launches DarkAdapted if it is not already running, and brings the Control Window to the front of the window layering order.
Example:	<pre>tell application "DarkAdapted" activate end tell</pre>

Command:	quit
Syntax:	quit
Function:	Quits DarkAdapted if it is running.
Example:	<pre>tell application "DarkAdapted" quit end tell</pre>

Command:	savePreferences
Function:	Saves all of DarkAdapted’s preference values, and the current gamma preset(s) or color values, for possible restoration with the <code>restorePreferences</code> command.
Example:	<pre>tell application "DarkAdapted" savePreferences end tell</pre>

Command:	restorePreferences
Syntax:	restorePreferences [parameter]
Parameters:	with restoringGamma <i>or</i> without restoringGamma
Function:	If <code>savePreferences</code> has previously been called, all of DarkAdapted’s preference values are restored to their saved values. Use with <code>restoringGamma</code> to also restore the saved gamma setting(s) (or the saved preset(s), if selected).
Notes:	<p><code>restorePreferences</code> has no effect if <code>savePreferences</code> has not previously been called.</p> <p>If you specify <code>with restoringGamma</code>, the most recently stored gamma setting or preset is restored. If the gamma has never been stored, it remains unchanged.</p>
Examples:	<pre>tell application "DarkAdapted" restorePreferences with restoringGamma restorePreferences without restoringGamma end tell</pre>

Command:	<code>independentDisplayControl</code> (DarkAdapted Pro only)
Syntax:	<code>independentDisplayControl [parameter]</code>
Parameters:	<code>true</code> or <code>false</code>
Function:	<p>Specifies whether DarkAdapted Pro should control all displays in unison, or each display independently. Specify <code>true</code> to control displays independently, with a separate Control Window for each display, or <code>false</code> to control all displays in unison, controlled by a single Control Window.</p> <p><i>DarkAdapted Standard simply ignores this command; it only works with DarkAdapted Pro.</i></p>
Examples:	<pre>tell application "DarkAdapted" independentDisplayControl true independentDisplayControl false end tell</pre>

Command:	<code>selectDisplay</code> (DarkAdapted Pro only)
Syntax:	<code>selectDisplay [parameter]</code>
Parameters:	An integer corresponding to one of your connected displays. Specify <code>0</code> for the main display, <code>1</code> for the second display, and so on.
Returns:	boolean
Function:	<p>Set the desired display to control via subsequent AppleScript commands, entering Independent Display Mode if necessary. If you specify a nonexistent display, the closest valid display is selected.</p> <p>Setting the display to 1 or higher enables Independent Display Mode, if necessary.</p> <p>This function returns <code>false</code> if a nonexistent display is specified, in which case DarkAdapted selects the closest valid display. Otherwise this function returns <code>true</code>.</p> <p><i>DarkAdapted Standard simply ignores this command; it only works with DarkAdapted Pro.</i></p>
Examples:	<pre>tell application "DarkAdapted" if not selectDisplay 0 then beep end tell</pre>

Command:	<code>getGamma</code>
Syntax:	<code>getGamma [parameter]</code>
Parameters:	<code>with percentages</code> or <code>without percentages</code>
Returns:	string
Function:	<p>Retrieves the gamma settings for the currently selected display in a comma-delimited string.</p> <p>If <code>with percentages</code> is passed, the values are returned as percentage values, including tenths of a percent.</p> <p>If <code>without percentages</code> is passed, values are returned in the range 0-255.</p> <p>The returned values represent the gamma's red, green, and blue components, respectively.</p>
Examples:	<pre>tell application "DarkAdapted" if not setGamma preset "Full Brightness"~ then return -- sets the gamma to 100% display dialog getGamma with percentages~ -- displays "100.0,100.0,100.0" display dialog getGamma without percentages~ -- displays "255,255,255" end tell</pre>

Command:	setGamma
Syntax:	setGamma value [parameter] <i>or</i> setGamma preset [parameter]
Parameters:	<p>If using <code>setGamma value [parameter]</code>, the parameter must be passed as a comma-delimited string of the three integers which represent the desired gamma's red, green, and blue components, respectively. Each component value must be in the range zero to 255, with 255 representing full brightness.</p> <p>If using <code>setGamma preset [parameter]</code>, the parameter must be passed as a valid preset name (as it appears in the Control Window's Presets pop-up menu).</p>
Returns:	boolean
Function:	Implements a gamma fade on the currently selected display. Returns <code>true</code> if an allowable value or recognized preset is received, or <code>false</code> if an illegal value or unrecognized preset name is passed.
Notes:	DarkAdapted will not allow the gamma value to be set to "0,0,0" — because a scripting error could also result in three zero-values being passed. To turn the screen off, use, for example, "0,0,1"
Examples:	<pre>tell application "DarkAdapted" if not (setGamma value "255,255,255") then~ beep -- full brightness if not (setGamma preset "Full Green") then~ beep end tell</pre>

Command:	displayControlWindow
Syntax:	displayControlWindow [parameter]
Parameters:	with detailsShowing <i>or</i> without detailsShowing
Function:	Use with <code>detailsShowing</code> to display the Control Window at full size, or use <code>without detailsShowing</code> to minimize the window.
Examples:	<pre>tell application "DarkAdapted" displayControlWindow with detailsShowing displayControlWindow without detailsShowing end tell</pre>

Command:	gangSliders
Syntax:	gangSliders [parameter]
Parameters:	true <i>or</i> false
Function:	Specifies whether or not the gamma control sliders move in unison when adjusting one slider. Specify <code>true</code> to gang the gamma control sliders for the selected display(s), or <code>false</code> to set the sliders to independent control.
Examples:	<pre>tell application "DarkAdapted" gangSliders true gangSliders false end tell</pre>

Command:	maintainRelativeValues
Syntax:	maintainRelativeValues [parameter]
Parameters:	true <i>or</i> false
Function:	Specifies whether or not the gamma control sliders maintain their proportions of red, green, and blue. Enters Ganged Mode if necessary. Specify <code>true</code> to maintain relative slider values for the selected display(s), or <code>false</code> to cause sliders to lose their relative values when one slider reaches the end of its travel.
Examples:	<pre>tell application "DarkAdapted" maintainRelativeValues true maintainRelativeValues false end tell</pre>

Command:	restoreGammaOnLaunch
Syntax:	restoreGammaOnLaunch [parameter]
Parameters:	true <i>or</i> false
Function:	Specifies whether or not DarkAdapted should restore previous gamma settings when it is launched. Specify <code>true</code> to restore previous settings at launch, or <code>false</code> to start up at full brightness.
Examples:	<pre>tell application "DarkAdapted" restoreGammaOnLaunch true restoreGammaOnLaunch false end tell</pre>

Command:	fadeSteps
Syntax:	fadeSteps [parameter]
Parameters:	1, 15, 30, 60, 90, or 120
Returns:	boolean
Function:	Specifies the number of steps in gamma fades. Returns <code>true</code> if an allowable value is received, or <code>false</code> if an illegal value is passed.
Example:	<pre>tell application "DarkAdapted" if not (fadeSteps 15) then beep end tell</pre>

Command:	toggleKeys
Syntax:	toggleKeys [parameter]
Parameters:	<p>Any combination of two or more of the following: <code>shift</code>, <code>control</code>, <code>option</code>, <code>alt</code>, <code>command</code>, separated by commas.</p> <p>Optionally, you may also pass <code>keycode='X'</code> and <code>keytext='@Y'</code> where <code>X</code> references the Macintosh hardware keycode (in <i>decimal</i>) for the desired key, and <code>Y</code> references either the character printed on the key or its ASCII value.</p> <p>If passing the ASCII value, precede the value by the <code>@</code> character. You must pass both <code>keycode</code> and <code>keytext</code>, or neither.</p>
Returns:	boolean
Function:	Specifies the modifier keys, and optionally changes the non-modifier key, that must be held down in order to toggle the gamma setting between full brightness and its last non-full value. Returns <code>true</code> if a successful command is received, or <code>false</code> if an illegal value is passed.
Example:	<pre>tell application "DarkAdapted" if not (toggleKeys "shift, control, option")- then beep -- just changes modifiers, not key if not (toggleKeys "shift,keycode='36',- keytext='@13'then beep -- changes gamma - toggle keys to Shift + Return if not (toggleKeys "control,keycode='3',- keytext='F'then beep -- changes gamma - toggle keys to Control + F end tell</pre>

Command:	<code>gammaToggleKeysAllDisplays</code> (DarkAdapted Pro only)
Syntax:	<code>gammaToggleKeysAllDisplays [parameter]</code>
Parameters:	<code>true</code> <i>or</i> <code>false</code>
Function:	Specifies whether or not the gamma toggle keys affect all displays, or only the display with the frontmost Control Window. Specify <code>true</code> to control all displays with the toggle keys, or <code>false</code> to control only the display with the frontmost Control Window. <i>DarkAdapted Standard simply ignores this command; it only works with DarkAdapted Pro.</i>
Examples:	<pre>tell application "DarkAdapted" gammaToggleKeysAllDisplays true gammaToggleKeysAllDisplays false end tell</pre>

Command:	<code>gammaRefreshPeriod</code>
Syntax:	<code>gammaRefreshPeriod [parameter]</code>
Parameters:	Integer in the range zero to 60.
Function:	Specifies how often the screen gamma will be manually re-applied. Enter 0 (zero) to turn off gamma refreshing, or specify a period in seconds between 1 and 60.
Example:	<pre>tell application "DarkAdapted" gammaRefreshPeriod 30 end tell</pre>

Command:	<code>doSliderUpdating</code>
Syntax:	<code>doSliderUpdating [parameter]</code>
Parameters:	<code>with trackingfades</code> <i>or</i> <code>without trackingfades</code>
Function:	Controls whether sliders track gamma fades.
Examples:	<pre>tell application "DarkAdapted" doSliderUpdating with trackingfades doSliderUpdating without trackingfades end tell</pre>

Command:	<code>reportGammaValues</code>
Syntax:	<code>reportGammaValues [parameter]</code>
Parameters:	<code>with percentages</code> <i>or</i> <code>without percentages</code>
Function:	Controls whether the text readouts (to the right of the gamma sliders) report gamma values as percentages or as raw values.
Examples:	<pre>tell application "DarkAdapted" reportGammaValues with percentages reportGammaValues without percentages end tell</pre>

Command:	<code>updateChecking</code>
Syntax:	<code>updateChecking [parameter]</code>
Parameters:	<code>with prereleases</code> <i>or</i> <code>without prereleases</code>
Function:	Specifies whether DarkAdapted checks for alpha or beta ("pre-release") versions when performing an Internet update check.
Examples:	<pre>tell application "DarkAdapted" updateChecking with prereleases updateChecking without prereleases end tell</pre>

Command:	<code>updateCheckFrequency</code>
Syntax:	<code>updateCheckFrequency [parameter]</code>
Parameters:	One of the following strings: <code>weekly</code> <i>or</i> <code>monthly</code> <i>or</i> <code>via menu only</code>
Function:	Specifies whether and how often DarkAdapted performs an automatic Internet update check for new versions.
Examples:	<pre>tell application "DarkAdapted" updateCheckFrequency "weekly" updateCheckFrequency "monthly" updateCheckFrequency "via menu only" end tell</pre>

Command:	hideSystemWideMenu (DarkAdapted Pro only)
Syntax:	hideSystemWideMenu [parameter]
Parameters:	with hotkeysEnabled <i>or</i> without hotkeysEnabled
Function:	Hides the system-wide menu, either with hotkeys enabled or without hotkeys enabled. <i>DarkAdapted Standard simply ignores this command; it only works with DarkAdapted Pro.</i>
Examples:	<pre>tell application "DarkAdapted" hideSystemWideMenu with hotkeysEnabled hideSystemWideMenu without hotkeysEnabled end tell</pre>

Command:	showSystemWideMenu (DarkAdapted Pro only)
Syntax:	showSystemWideMenu
Function:	Shows the system-wide menu and enables its hotkeys. <i>DarkAdapted Standard simply ignores this command; it only works with DarkAdapted Pro.</i>
Examples:	<pre>tell application "DarkAdapted" showSystemWideMenu end tell</pre>

Section 4: Troubleshooting

4.1 — Error Messages in Windows

Some versions of Windows do not automatically adjust an application's use of memory. If DarkAdapted exceeds the amount of RAM allocated to it, the program may display an error message, or it may crash.

If you are running DarkAdapted X under Mac OS X, then this section is not applicable.

Many error messages are memory related, so — if you frequently encounter error messages, you may wish to allocate more memory to DarkAdapted. Consult your computer's documentation as to how you may allocate more memory to an application program.

If you encounter error messages that you believe may be caused by an error within DarkAdapted, then take careful note of any error messages that appear, along with steps that lead to a reproducible error, and e-mail the information to us. We'll do what we can to identify, reproduce, and correct the problem.

Make sure you have 2 MB available RAM in which to run DarkAdapted, especially if you have added many presets or scheduled events. DarkAdapted runs well under virtual memory and with most popular memory-doubling technologies.

If problems persist, try restarting in "safe mode," as described in your computer's documentation.

4.2 — My Monitor is Stuck at Reduced Brightness!

This usually occurs if DarkAdapted or your system has crashed, leaving your monitor's gamma ramp in a modified state.

First off, do not panic! It's easy to restore your monitor to full brightness.

Win Simply restart your machine to return your monitor to its default gamma setting. If this is not effective, open your *Display* control panel and click the *Settings* tab. Change your *Colors* control to a different value and back again. As a last resort, try reinstalling your video driver to clear the "stuck" gamma preference.

Mac Under Mac OS X, select System Preferences... from the Apple menu. Select the *Displays* preference pane, then click on the *Color* tab. Click to select a different *Display Profile*, then select the original

(or any desired) profile to reset your gamma. If this does not work, you may have to restart your machine.

4.3 — Common Problems

Help! DarkAdapted no longer has an interface!

This can happen only when all of the following are true at the same time:

- DarkAdapted Pro has been set to show no Dock icon (so that it has no menu bar at the top of your screen), *and*
- The preference for the system-wide menu is *Hide*, *and*
- The preference *Closing Control Window quits DarkAdapted* has been set to false (de-selected), *and*
- The last **Control Window** (which has a contextual menu allowing you to set preferences or show the system-wide menu) has been closed, *and*
- You have forgotten the hotkey that shows the **Edit Menu Hotkeys** window.

If all of the above occur at the same time, DarkAdapted Pro warns you about a “no interface” situation, *unless* you have checked *Don’t show again* in the warning dialog the last time it appeared. At the very least, DarkAdapted Pro enables system-wide hotkeys so that you can still control DarkAdapted Pro.

There are four ways out of this situation:

- Check out your “AppleScript” folder in your DarkAdapted folder for a script named “Restore Interface AppleScript.” Run this script, and all of DarkAdapted Pro’s **Control Windows** will show, and the system-wide menu will be enabled.
- Try the default hotkey for Edit Menu Hotkeys... that DarkAdapted automatically sets up (if none is defined) when the interface disappears. That hotkey is ⌘ [OPTION] [K]. That may open the **Edit Menu Hotkeys** window. You can then set a hotkey to show the **Preferences** window, and configure DarkAdapted Pro.
- If you have defined a system-wide menu hotkey for Edit Menu Hotkeys..., and you can remember it, press that hotkey. You can then set a hotkey for the **Preferences Window**, and configure DarkAdapted Pro to your liking.
- As a last resort, you can quit DarkAdapted Pro using Apple’s Activity Monitor (or simply log out and back in), then remove the DarkAdapted Preferences file from the Preferences folder inside the

Library folder of your home directory, *and* remove the DarkAdapted Preferences file from the Preferences folder inside the Library folder at the top level of your startup disk, then re-open DarkAdapted and re-register.

DarkAdapted does nothing on my system.

This occurs most often with Windows-compatible machines. While DarkAdapted functions well with many Windows systems, it cannot support all possible hardware/software combinations. Generally speaking, if your hardware supports standard gamma change routines, DarkAdapted will work on it.

DarkAdapted doesn’t affect some of my screen colors.

Windows does not consider white when modifying gamma values. Some users have reported success via changing the Windows theme to the “Classic” value.

My gamma setting is not persistent.

Most systems will reset the gamma ramp when you restart, when a screen saver exits, or when your system sleeps and wakes. DarkAdapted will not “know” about this event and may not reset the gamma. The solution is to enable the *Refresh gamma values* control in the **Preferences** window.

DarkAdapted periodically shows the License Agreement window when I open DarkAdapted.

The **License Agreement** window appears the first time you open a new version of DarkAdapted. If you open an earlier version, quit that earlier version, then open the newer version of DarkAdapted, the **License Agreement** window again displays.

DarkAdapted contains several presets for Red and Green; why not Blue?

DarkAdapted was developed to help preserve the user’s dark adaptation. Red is most widely regarded as the best choice for this purpose, while green also has its adherents. Blue is not generally recommended to preserve dark adaptation, so no presets are supplied in the blue range.

If you’d like to add blue presets, check out the supplied file “Blue Presets,” which is part of the DarkAdapted download package.

DarkAdapted does not affect all of my monitors.

Version 1.3.1 introduced multiple monitor support. If you are using version 1.3.1 or later, make sure you remove any prior versions of DarkAdapted, then restart your system to enable control of all connected displays.

I upgraded to DarkAdapted Pro, but the menu still reads “DarkAdapted.”

Apple recommends against an application modifying the files that DarkAdapted would need to change in order to change the menu text. That is why we have added “DarkAdapted Pro” to the lower-left corner of all **Control Windows**, to the About menu items, and to each **Control Window**’s title.

DarkAdapted does not present the option “Try DarkAdapted Pro...”

If you are already trying DarkAdapted in Pro mode, this menu item will be unavailable. Note also that DarkAdapted Pro is only available to users running Mac OS X.

DarkAdapted does not present the option “Register DarkAdapted Pro...”

If you have already registered DarkAdapted Pro, this menu item will be grayed-out.

If you are running Windows, note that DarkAdapted Pro is only available to users running Mac OS X, and so this command does not appear in Windows.

I receive error messages when I open the program.

If you are running DarkAdapted for Windows, then the first issue you should suspect is a memory problem. Try allocating more memory to DarkAdapted as described in your computer’s documentation or on-line help system.

It is also possible that the file “DarkAdapted Preferences” has become damaged. In Mac OS X, “DarkAdapted Preferences” is located in the active User’s “Library” folder, in the “Preferences” folder. In Windows, the file is located in the same directory as DarkAdapted.

The preferences file must remain unlocked and in place while you use the program; otherwise, DarkAdapted will be unable to write preference information, and an error message will be generated.

I receive error messages when I quit the program.

See the above discussion concerning the file “DarkAdapted Preferences.” Your startup disk must be writable (i.e., it cannot be a CD-ROM or other read-only medium). Otherwise, DarkAdapted will be unable to save preference information when you quit the program, and an error message will appear.

I receive error messages while using the program.

If DarkAdapted reports an error while you are using the program, one of the following is likely to be true:

- The program has run out of application memory. There isn’t enough memory to store additional data or display a graphic. This should not occur when running DarkAdapted X under Mac OS X, because Mac OS X dynamically allocates memory to application programs.
- The program has attempted to write data to a disk that is locked or read-only. This may occur when saving a file, when the program writes to its preferences file, or when writing temporary files to disk.
- The program has attempted to access a file that has been moved or deleted since DarkAdapted last attempted to read from it.
- The program contains an error that causes results that have not been anticipated (a “bug”).

Make sure also that DarkAdapted and its support files are installed on an unlocked disk, and that you have started your computer from an unlocked, writable startup disk.

If you believe you have found a bug in the program, let us know! DarkAdapted contains many thousands of lines of programming code, and it is unrealistic for us to expect that we have anticipated every possible situation. If the situation is repeatable, please outline the steps that are required to reproduce the problem. Support information is described in the following Section.

4.4 — Technical Support

Consult the “Read Me” file in the Documentation folder — or click the link in DarkAdapted’s **Control Window** — for technical support contact information.

Additional information is available at the [DarkAdapted web site](#).

Section 5:

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