

Belkin Bulldog

**Shutdown Management Software
for Mac OS 9.0.4 & Higher**



Table of Contents

Introduction.....	3
Installing Bulldog.....	4
Main Window.....	6
File Menu	8
Configure Menu.....	9
Control UPS.....	13

Introduction

Congratulations on your purchase of Belkin Bulldog to manage your Uninterruptible Power Supply (UPS). Bulldog is designed to provide end users the ability to take proactive steps to protect their equipment from power related damages. Bulldog allows for automatic shutdowns, scheduled shutdowns and a variety of other features that help you manage your system and its peripheral components.

Bulldog provides detailed information about the UPS and its protected equipment. It is easy to install and program, yet has the necessary features to handle all of one's power requirements.

Bulldog runs in the background from the operating system, and communicates with the UPS in order to ensure that your computer and attached components are protected from any power problems.

Features:

1. Graceful operating system shutdown
2. Scheduled shutdowns and restarts of the operating system
3. Real-time status displays
4. Support unattended file saving of Apple Works, Microsoft Word and Microsoft Excel
5. Cancel or save specified applications or scripts before shutdown



Installing Bulldog

1. System Requirements:

Hardware: Apple Macintosh series with PowerPC CPU and USB port.

Software: Mac OS 9.0.4 or higher is recommended. If your Mac OS version is 9, you can use the built-in software updated control panel that goes on line to get the latest OS changes.

2. Installing Belkin Bulldog:

1. Turn off the system.
2. Attach the electrical power cable from the computer to the UPS.
3. Attach the electrical power cable from the UPS to an AC power outlet.
4. Plug the USB cable into the UPS, then plug the other end of the cable into the USB port on your Macintosh.
5. Start your system.
6. Insert the installation CD into the CD-ROM drive. Drag a copy of the BULLDOG.HQX file to anywhere on the Macintosh's hard disk. We recommended you create a folder called **Bulldog** and copy it to the folder.
7. Launch the StuffIt Expander to decode the BULLDOG.HQX file. The StuffIt Expander is usually located in the Startup Disk: Internet: Internet Utilities: Aladdin: StuffIt Expander Folder. Select the Expand from the File menu. A dialog box will be pop up to the front on the screen. Change the directory to where the BULLDOG.HQX file located and select the file then press the Expand button. An application named Bulldog will be created in the same directory.
8. Highlight the **Bulldog** on your hard disk and select the "Make Alias" from the file menu of the Finder. Drag the alias to the Startup folder in the System Folder on your hard disk.
9. Start **Bulldog** and see the Menu-Configure for instructions on how to configure **Bulldog** for your system.
10. **Bulldog** should now be operating correctly, check that it is listed under Finder in the Applications Menu at the rightmost corner of the menu bar.



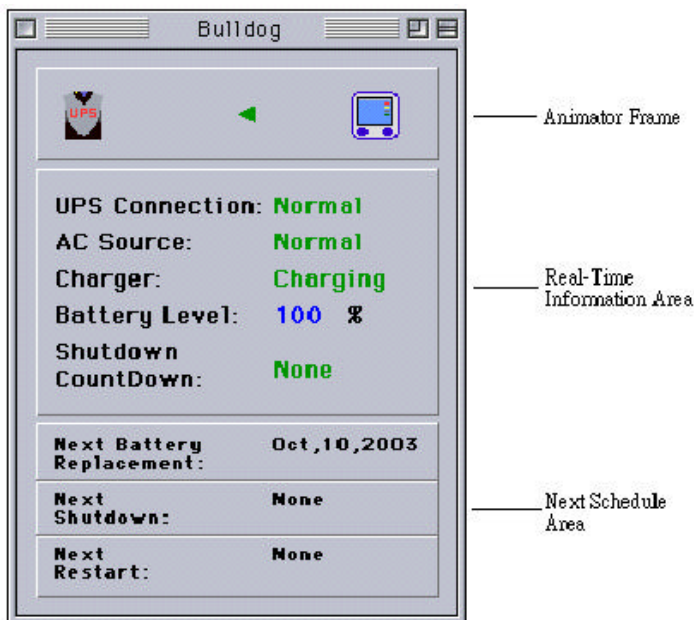
3. Troubleshooting:

If the **Bulldog** program can not run in your computer, you should press the 'Shift Key' when you restart your OS, then remove the **Bulldog** program from the 'Startup Folder'.

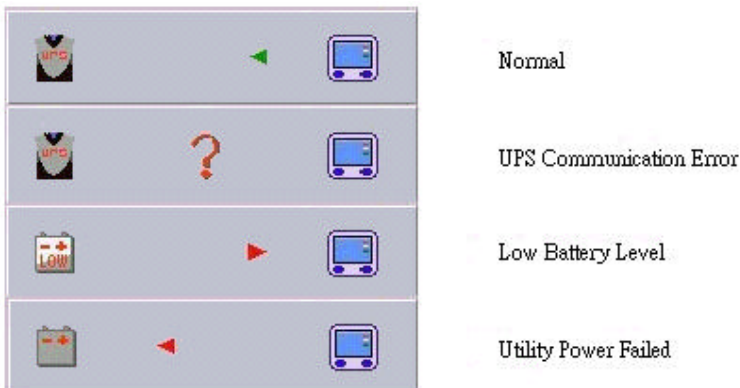


Main Window

The following picture shows the main window of **Bulldog**. **Bulldog** enables you to control and configure the UPS through drop down menus and the dialog boxes.



1. **Animator frame:** This area shows you the current UPS status.



- a. Normal: The UPS is working normally.
- b. Utility power failed: Input power has been lost and the UPS is operating on battery power only.
- c. Low battery level: The UPS is operating on battery power and the battery capacity will soon be drained.
- d. UPS communication error: The computer does not receive any information from the UPS. Please check the USB cable.

2. Real-time information area: Displays the status of the UPS.

- a. UPS Connection: Indicates the UPS communication status.
- b. AC Source: Indicates the output source is from the AC utility or battery.
- c. Charger: The charger should always be in the charging status except for when the utility power has failed.
- d. Battery level: Displays the current volume of battery.
- e. Shutdown countdown: Displays the shutdown countdown time. You should save your opened documents and prepare to shutdown your computer before the countdown time reaches zero.

3. Schedule area: Displays the battery replacement date and the next scheduled instance for shutdown and restart.



Menu

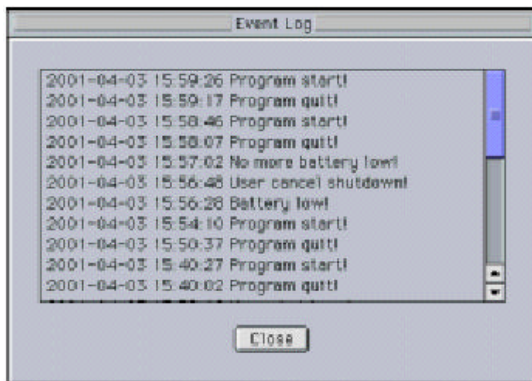
The **Bulldog** program has a menu bar with 3 main options: File, Configure and Control.



File Menu



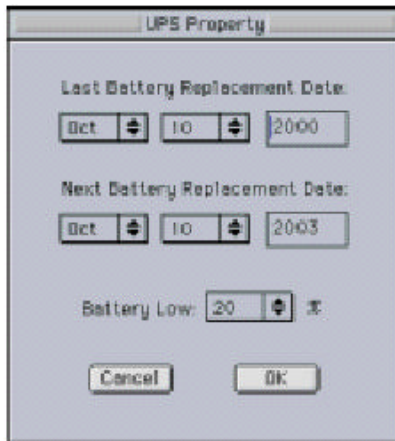
- Main Window: Displays the main window screen.
- Event Log: Allows end user to view the historical event logs.
- Quit: Terminates the **Bulldog** program.



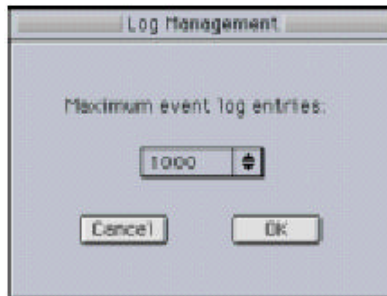
Configure Menu



- a. UPS Property: Indicates the last and next battery replacement dates and the value of battery low level, and allows the end user to set the parameters for the next occurrence. When the UPS battery level is equal to or less than the value that you have assigned, the **Bulldog** program will start the shutdown countdown.



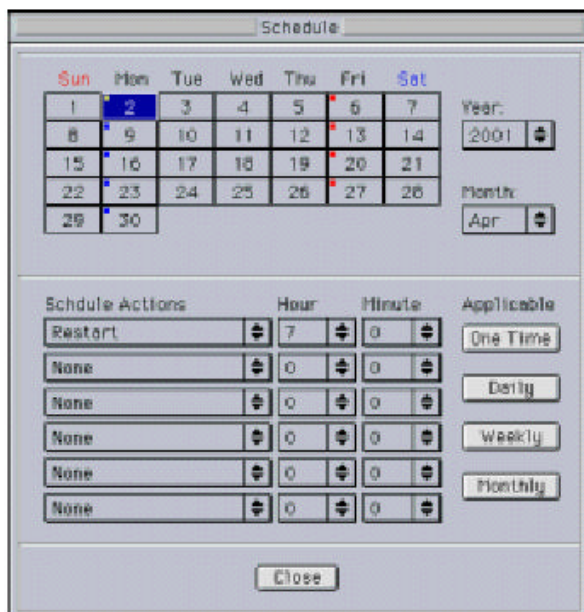
- b. Log Management: **Bulldog** saves the assigned entries of the event log according to the settings you place.



- c. Voltage Sensitivity: Adjusts the UPS voltage sensitivity.

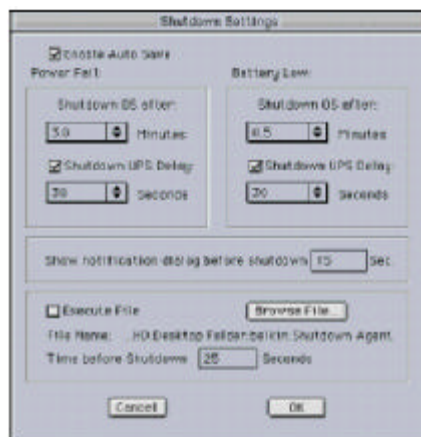


- d. Schedule: This function allows you to schedule a shutdown and restart. You can schedule up to 6 events. Settings are based on day, week or month and up to a period of 2 years.

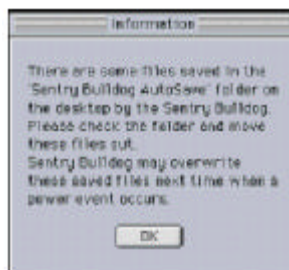


Choose the applicable schedule and assign the settings for:

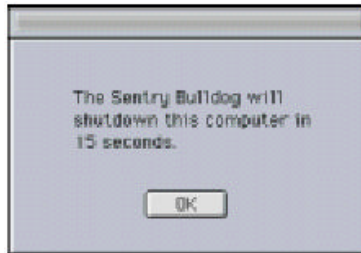
- i. One Time: This set schedule is applicable for a single day.
- ii. Daily: This set schedule is applicable for every day.
- iii. Weekly: This set schedule is applicable for a once a week period.
- iv. Monthly: This set schedule is applicable for a once a month period.
- e. Shutdown Settings: Allows you to shutdown your OS and UPS smoothly when utility power fails or the battery level get too low.



- i. Enable Auto Save: **Bulldog** can save Microsoft Word, Microsoft Excel and AppleWorks documents for you when power anomalies occur. If **Bulldog** has saved any files for you, it will display a warning message to you when **Bulldog** runs next time.



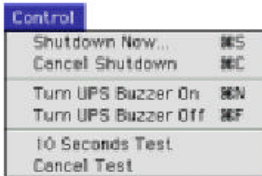
- ii. **Shutdown OS After:** This sets the delay, in minutes, between switching to battery power and starting the shutdown process.
- iii. **Shutdown UPS Delay:** this option activates after the Shutdown OS timer delay has expired and the shutdown process is ready to start. It allows the UPS to sustain power until the OS can be shutdown completely.
- iv. **Show notification dialog before shutdown:** Displays a warning dialog at the set time before computer shutdown.



- v. **Execute File:** Enable this option if you need to execute an external application before computer shutdown.
- vi. **Browse File:** Press this button to display an open dialog.
- vii. **File Name:** Displays the specified application name.
- viii. **Time before Shutdown:** Sets the time needed to execute the specified application before computer shutdown.



Control Menu



- a. Shutdown Now: This function lets you shutdown your computer and UPS immediately. To restart your UPS, you have to set a next restart schedule in advance and mark the Restart UPS check box.



- b. Cancel Shutdown: This menu enables you to terminate the current shutdown procedure.
- c. Turn UPS Buzzer On: Enable the UPS buzzer.
- d. Turn UPS Buzzer Off: Disable the UPS buzzer.
- e. 10 Seconds Test: UPS switches to the backup mode and the output power is supplied by battery for 10 seconds.
- f. Cancel Test: This function allows you to stop testing the UPS immediately.

