

About PC Life ® 2000



***PC LIFE* ® 2000**

Featuring:

- Patented Year 2000 (Y2K) Compliance System**
- Real Time Clock (RTC) Y2K Date Management**
- Real Time Clock Accuracy Adjustment**
- BIOS Y2K Date Management**
- Windows ® Operating System Y2K Date Compliance**
- Windows ® System Date Format Y2K Compliance**
- Windows ® System Date Format Locking**
- System Date Change Logging**
- System Date Change Window Control**
- Compliance Settings Locking**
- Analog Date and Time Clock**
- Current Lunar Phase**

Date Calculator

Key Benefits

PC Life ® 2000 provides the following Year 2000 compliance benefits:

1. Real Time Clock / BIOS / Operating System Year 2000 Compliance
2. Operating System Clock Management
3. Operating System Date Format Year 2000 Compliance
4. Date Change Logging

PC Life ® 2000 provides the following additional user benefits:

5. Analog Clock and Date
6. Current Lunar Phase
7. Date Calculator

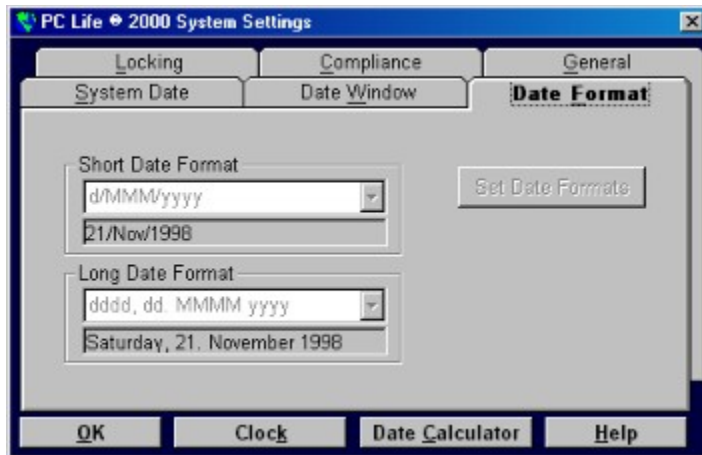
Glossary

- BIOS** Boot IO System
- OS** Operating System (ie. Windows 95/98, NT or 3.1)
- RTC** Real Time Clock
- PC** Personal Computer
- Y2K** Year 2000

Settings - Date Formats

Use this to set the desired Short and Long Date Formats.

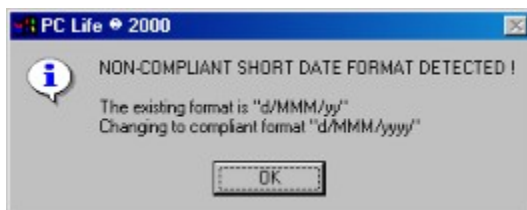
PC Life © 2000 will only allow formats containing a 4 digit year, that is, a yyyy must be used for the year part. You must also use a sensible date format, for example, y-y-y is not allowed.



The drop-down lists contain a comprehensive selection of compliant date formats used around the world.

These formats are used by the Windows operating system to display dates (ie Explorer). They are also used by most applications to display and interpret dates.

If you set the **Force Compliant Date Formats** on the Compliance Tab, the formats selected here are the only ones allowed, and should the user or a program attempt to change the format, it will be changed back to the format set here.



If a non-compliant date format is detected you will see a message like this:

Year 2000 Compliance System

The *PC Life* ® 2000 Compliance System is patent pending.

Its benefit is that PCs with or without Y2K compliant RTCs will provide correct time keeping for the OS well into the 21st century. The compliant date range is extended from the non-compliant RTCs end date of the 31st of December 1999 to the Windows 95/98 end date of the 31st of December 2099. Also included is Year 2000 leap year compliance.

This is achieved with a global system that is not concerned with the particular type of RTC or BIOS your PC uses. As long as it can keep time within the 20th Century (1-Jan-1900 to 31-Dec-1999), ***PC Life* ® 2000** will allow it to function for the 21st Century (1-Jan-2000 to 31-Dec-2099) also.

Full PC Y2K compliance is achieved in combination [with Operating System Clock Management](#) , [Operating System Date Format Compliance](#) and [Date Change Logging](#) . All of these systems are activated when you [Lock](#) *PC Life* ® 2000

Operating System Clock Management

PC Life ® 2000 monitors any System Date Changes on your PC, whether caused by the user, a program or a virus, and checks this against its current [System Date Window](#) . Any attempt to jump outside this window is intercepted and reversed. This helps prevent nonsensical and virus date changes.

Operating System Date Format Compliance

This facility ensures that your **Short** and **Long Date Formats**:

1. create a 4 digit year
2. are sensible
3. cannot be changed to non-compliant formats

This feature assists substantially in maintaining application and data Y2K compliance.

When **PC Life** ® **2000** detects Y2K non-compliant formats, eg. dd-MM-yy it immediately changes this to a compliant version of that format dd-MM-yyyy.

When **PC Life** ® **2000** detects nonsensical date formats, eg. y-y-yy, it immediately changes it to a respective default Long (dddd, d-MMM-yyyy) or Short (dd-MMM-yyyy) Date Format.

In either case, you are notified of this action in a message box.

The date formats are available in the [Date Format Tab](#)

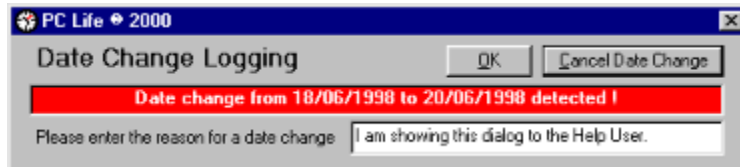
You can see the effect of changing the Short Date Format when viewing Files in Explorer, They will show 4 digit years after **PC Life** ® **2000** enforces compliance.

Many programs and programming languages use the Long and Short Date Formats to express dates, so this feature performs a vital Y2K function for the OS and Applications.

System Date Change Logging

This facility asks the user for a reason every time the system date is changed (within the System Date Window), and logs the details of the date change along with the reason to a log file. You can view this Log File from [the System Settings - Compliance Tab](#)

When a Reason is required the following dialog appears:



Your choices are to enter a reason and click the OK Button or click the Cancel Date Change Button.

Analog Clock and Lunar Phase

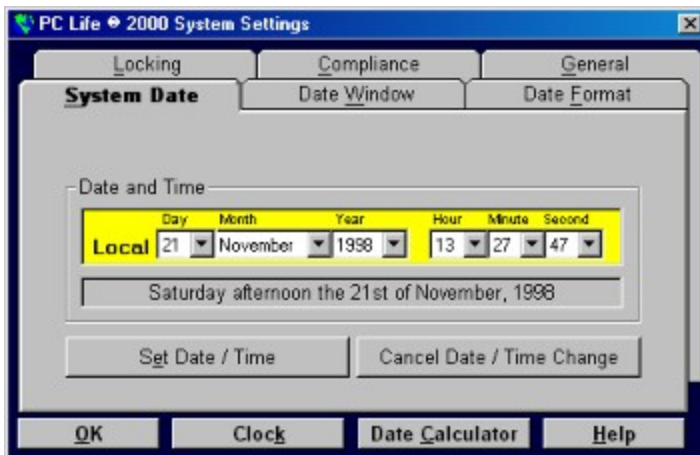
This provides a friendly analog view of the current system date and time, as well as showing the current Lunar Phase.

Use the **Go** menu to navigate to *PC Life* © 2000 Settings or the Date Calculator.



Clicking the *PC Life* © 2000 text also navigates to the settings form.

Settings - System date / Time Tab



Use this to set the current System Date and Time for your PC.

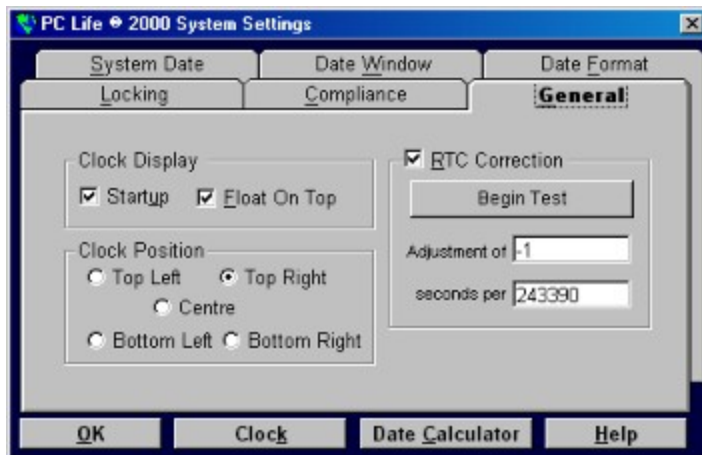
The **Set Date / Time** and **Cancel Date / Time** Change Buttons become visible and the background color changes from white to yellow when you change any part of the **Date and Time** dialog.

Use the dropdown dialogs to select the desired date and time. The Year option box is restricted to the [System Date Change Window](#) settings. If you wish to set a year outside this range you must adjust or disable the Date Window.

Important !!!

We advise strongly that you use the **PC Life ® 2000** method of setting your PCs Date and Time, because the Windows method is not compliant! The Windows dialog changes the System Clock, BIOS and RTC while you are making day, month and year selections, before you select Apply or OK.

Settings - General Tab



Clock Display

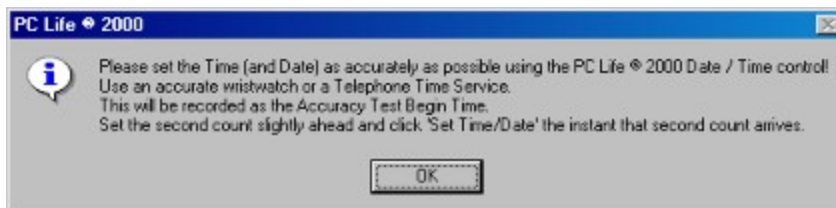
Check **Startup** if you wish to see the Clock Form when you boot your PC. Check **Float On Top** if you wish view the Clock Form on top of all other windows at all times.

Clock Position

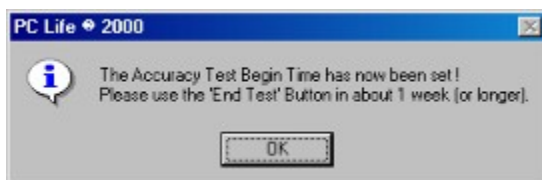
Select the default location for the Clock Form.

RTC Correction.

Click the **Begin Test** Button to set the Accuracy Test Begin Time. The following dialog appears:



Click OK and the System Date Tab is shown, ready for you to set the correct time and date. Be sure to make this as accurate as possible. Once you have set this the following dialog appears:



Then wait for at least 7 days before completing the accuracy test.

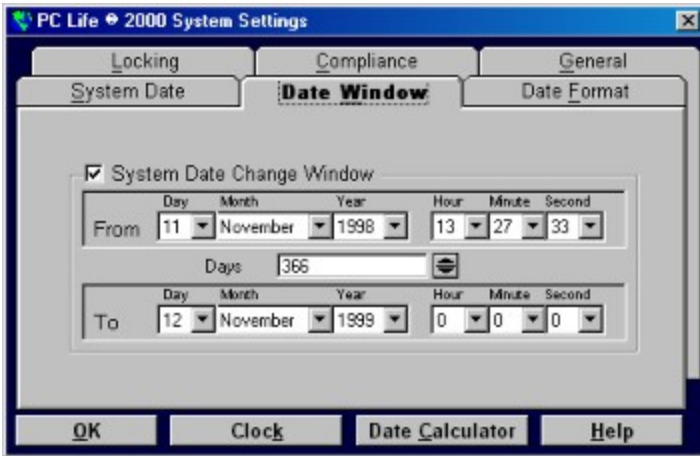
Complete the Accuracy Test by clicking the "End Test" button (ideally after booting the PC).

Similar dialogs to those above accompany the completion process. Again be sure to enter the time as accurately as possible. Now we have worked out how accurate your PC clock is (within a second) and **PC Life 2000** will then apply the calculated correction. This will improve the accuracy of your PCs

timekeeping.

Settings - Date Window

Here you control the **System Date Change Window**. This should be set so that the **FROM** Date is 10 or more days before the Current Date and the **TO** Date is 100 or more days after the Current Date. This would provide a System Date Window of 110 days.



The System Date Window is moved along each boot to keep pace with the Current Date.

If you wish to change the System date outside the date range defined by the **FROM** and **TO** dates, disable the System Date Range Window, change the date to the desired point, and then re-enable the System Date Range Window

If you check the above checkbox, you enable the **date change window**. This has the effect of preventing any date change to a date outside the date range defined by the **FROM** and **TO** dates. It also sets the years available in the [System Date Tab](#) to include only those years covered by the **date change window**.

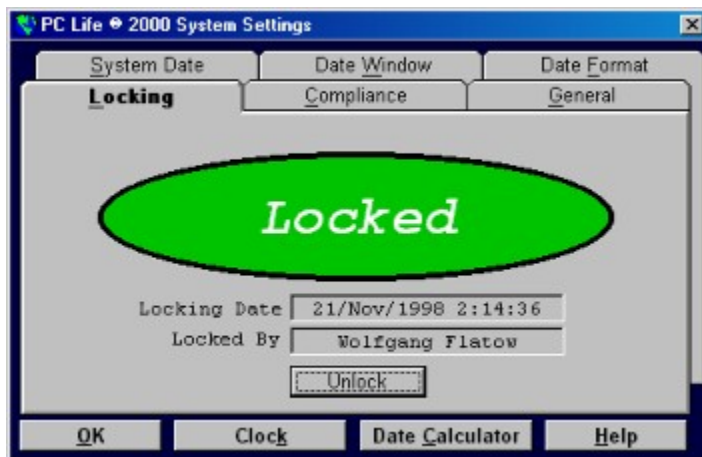
If you un-check the above checkbox, you disable the **date change window**. This also allows you to change the date to any year from 1987 to 2099 (the current Windows95/98 date range). This also means that the available years in the System Date Tab span this range.

The purpose of this feature is to prevent date changes to occur outside this Window! This helps to prevent accidental and nonsense date changes, as well as intercept date virus changes. It is based on the philosophy that: "once the date is set correctly, there should be little or no need to change it, and if a date change is required, it should not be required over a large range".

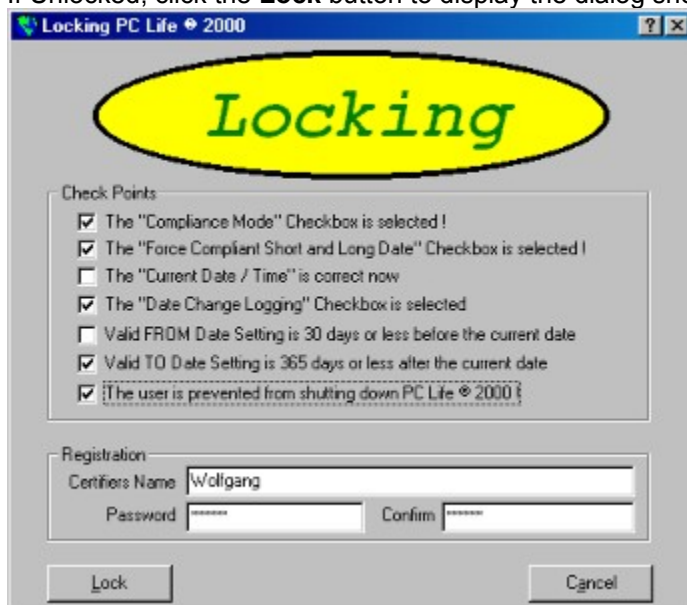
The **FROM** date is limited to a minimum of 10 days before the current date and the **TO** date is limited to a minimum of 20 days after the **TO** date.

Settings - Locking Tab

This tab shows whether **PC Life ® 2000** is Locked or Unlocked.



If Unlocked, click the **Lock** button to display the dialog shown below.



The checkboxes (other than the 3rd) reflect the settings you have made. You must check **all** settings ending in "!", making sure that the Current Date is correct. Enter your name in the Certifiers Name Field. Enter and confirm a Password. This will be required if you wish to Unlock **PC Life ® 2000**. If you should forget this (please record it safely) the Validation Code supplied with your **PC Life ® 2000** PC License will also work (Note: the unlicensed version does **not** provide the Password Function). Then click Lock.

Once Locked, you will not be able to change any of the settings on the [Compliance](#) and [Date Window](#) Tabs. The Locking Tab will now show that that **PC Life ® 2000** is Locked (as shown above) and is now able to assure you of Year 2000 Compliance for the Operating System Clock and Date Formats.

To Unlock, click the **Unlock** Button and you will be asked to enter the Password (or Validation Code (Note: not in unlicensed Version) and the Compliance and Date Window Settings become available.

IMPORTANT You should Lock *PC Life* ® 2000 as soon as possible. You should avoid Unlocking if possible. You should Re-Lock as soon as possible after Unlocking.

Date Calculator

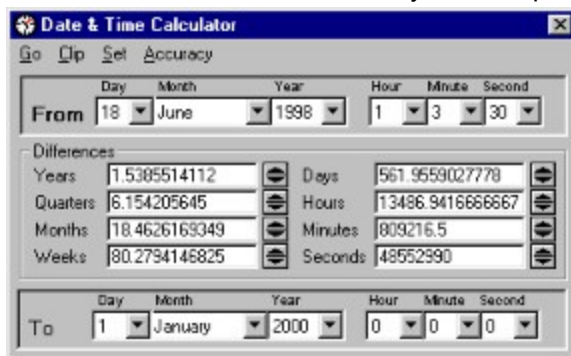
Activate the Date Calculator by using the Go Menu on the Clock Form or clicking the Date Calculator Button on the **PC Life** © 2000 Settings Dialog.

The Date Calculator allows you to calculate the period in:

1. Years
2. Quarters
3. Months
4. Weeks
5. Days
6. Hours
7. Minutes
8. Seconds

between a **From** Date and a **To** Date.

You can also enter a value for any of these periods to adjust the **To** Date relative to the **From** Date.



	Day	Month	Year	Hour	Minute	Second
From	18	June	1998	1	3	30
Differences						
Years	1.5385514112			Days	561.5559027778	
Quarters	6.154205645			Hours	13486.9416666667	
Months	18.4626169349			Minutes	809216.5	
Weeks	80.2794146825			Seconds	48552390	
To	1	January	2000	0	0	0

Use the dropdown lists to select the **From** and/or **To** Date / Time.

To change a difference value use the spin buttons or edit by clicking in the field and typing a value.

Use the Accuracy Menu to select between fractional or integer accuracy for the difference values.

Use the Set Menu to set the **From** or **To** Dates to Now, or set the **From** or **To** Times to midnight.

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Settings - Compliance

Here you can switch various **PC Life © 2000** functions on or off. The Compliance Control functions are compulsory for Certification, and will be turned on when you certify **PC Life © 2000**. You can show the clock at startup and position it.



RTC Compliance Mode enables the patented **PC Life © 2000** Y2K compliance system that allows your PC to operate in the 21st century irrespective of the type of RTC or BIOS it uses.

Force Compliant System Date Formats ensures that the Short and Long Date Formats used by Windows (and your applications) contains 4 digits for the year, and otherwise ensures a sensible format. Set the desired Date formats on the [Date Window Tab](#).

Log Date Changes forces the user to enter a reason for changing the date. This only applies to date changes, not time of day changes. This also provides an easy method to undo date changes. Use **View Change Log** to look at the Log using Notepad.

Forbid User shut down of PC Life 2000 disables the **Exit PC Life © 2000** menu option on the [Clock Form](#). As **PC Life © 2000** must be active at all times to manage your PCs Y2K compliance, it should not be exited unless you are planning on un-installing the application.

Exiting PC Life ® 2000

PC Life ® 2000 is a resident application and must not be exited if you wish to maintain Y2K compliance on your PC!

If you wish to exit the application, you must use the **Go | Exit PC Life ® 2000** option on the [Clock Form](#) Menu.

If this option is grayed out, it is disabled, and must be enabled on the [Compliance Tab](#) on the **PC Life ® 2000** Settings Form, by un-checking the **Forbid User shutdown of PC Life ® 2000** control.

This checkbox control may also be disabled because the [Locking](#) is turned on. You must then Unlock **PC Life ® 2000** from the **Locking Tab** on the **PC Life ® 2000** Settings Form.

These measures ensure that Y2K compliance provided by **PC Life ® 2000** is not easily compromised by users exiting the application.

To exit, **PC Life ® 2000** must be unlocked and **Forbid User shutdown of PC Life ® 2000** must be un-checked.

Un-Installing PC Life ® 2000

If you wish to un-install *PC Life ® 2000*, you must [exit](#) the application before using the **Add/Remove Programs** dialog on the **Windows Control Panel**.

If you accidentally Remove the application before exiting, you must re-install the program, exit the application (if you started it) and Remove again to ensure a complete removal of the application.

Check your desired options.

Check your desired options.

Select your preferred option.

Select your preferred option.

Select your preferred option.

Select your preferred option.

Select your preferred option.

Check your desired options.

Check your desired options.

Check your desired options.

Click this button to make your choice.

Click this button to make your choice.

Click this button to make your choice.

Click this button to make your choice.

Click this button to make your choice.

Click this button to make your choice.

Select your preferred option.

Select your preferred option.

Select your preferred option.

Check your desired options.

Click this button to make your choice.

Check your desired options.

Click this button to make your choice.

Click this button to make your choice.

Check your desired options.

Check your desired options.

Check your desired options.

Check your desired options.

Check your desired options.

Enter your input in this field.

Enter your input in this field.

Click this button to make your choice.

Click this button to make your choice.

Click this button to make your choice.

Check your desired options.

Check your desired options.

Check your desired options.

Click this button to make your choice.

Click this button to make your choice.

Enter your input in this field.

Click this button to make your choice.

Click this button to make your choice.

