fx-82SOLAR II Emulator

User's Guide
用戶說明書

CASIO Worldwide Education Website

https://edu.casio.com

CASIO ®

Contents / 目錄

English

Introduction

- fx-82SOLAR II Emulator is software that emulates operation of a CASIO scientific calculator.

- You also can display the LCD of the calculator in a separate window, which can be zoomed as required.

- An image of the LCD can be captured (copied to the Windows clipboard).

Important!

If you use a projector to project screen images, do not project onto a blackboard. Doing so can make the fx-82SOLAR II Emulator screen difficult to see.

■ Using This Manual

- This manual covers the operation of the software on your computer. It does not cover the actual operation of your computer. The procedures in this manual assume that you are already familiar with the following standard computer operations.

  - Menu operations using the mouse, including: clicking, double-clicking, dragging, etc.

  - General window operations, etc.

  If you are not familiar with these types of operations, refer to the user documentation for your computer.

- The screen shots shown in this manual are all from the English version of Windows® 10.

- Note that the actual appearance of the screen display by this software depends on your computer system setup and on the operating system you are using.

- Display examples shown in this User's Guide are intended for illustrative purposes only. The actual text and values that appear on display may differ from the examples shown in this User's Guide.

■ System Requirements

Operating Systems: Windows 7 (32-bit/64-bit), Windows 8.1 (32-bit/64-bit), Windows 10 (32-bit/64-bit)
Your hardware configuration needs higher than functionalities that operating system recommends.

Computer: Computer with one of the Windows operating systems pre-installed (Excluding computers with an upgraded operating system and self-built computers.)

Disk Space: 300 MB for installation and uninstall

Note: Actual requirements and product functionality may vary based on your system configuration and operating system.

Other: Video adapter and display must support resolution of XGA (1024×768) or higher, 16-bit or higher system color.
Internet Explorer® 8.0 or later.
Adobe® Reader® 8.0 or later.

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• Adobe and Reader are either registered trademarks or trademarks of Adobe Systems Incorporated in the United States and/or other countries.

• Company and product names used herein are trademarks of their respective owners.

• Note that trademark ™ and registered trademark ® are not used within the text of this user's guide.

To install fx-82SOLAR II Emulator

Note

• Do not install fx-82SOLAR II Emulator into a folder that is used by other software.

1. On your computer, double-click the fx-82SOLAR II Emulator application EXE file.

2. Perform operations as instructed by the text that appears on the screen.

To uninstall fx-82SOLAR II Emulator

Use Windows Control Panel to uninstall the software.

Using fx-82SOLAR II Emulator

■ Emulator Operations

• To operate the virtual calculator on your computer screen, "press" its buttons by clicking them.
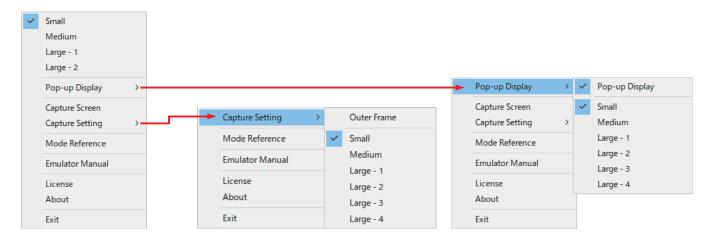• You also can perform the following key operations on your computer keyboard.

Computer Keyboard	Calculator Key
TAB	[AC]
Space	[AC]
F1	[SHIFT]
F2	[MODE]
F3	[ON]
Home	[MODE]
Enter	[=]
Delete	[▶] (Back Space)
Back Space	[▶] (Back Space)
^	[x^y]
( )	[(⋯] [⋯)]
+−*/	[+] [−] [×] [÷]
. (Period)	[·]
0 — 9	[0] — [9]
Ctrl+C	Capture Screen

Note

• The calculation speed of the emulators depends on the speed of your computer, and will be different from the calculating speed of the actual calculator.

■ Emulator Shortcut Menus

• Performing either of the operations below while the mouse pointer is located on the emulator will display a shortcut menu.

- Right-clicking with your mouse.

- Pressing your computer keyboard's Application key.

Menu Item	Submenu Item	Description
Small		Changes the size of the emulator to small-size.
Medium		Changes the size of the emulator to medium-size.
Large - 1		Changes the size of the emulator to large 1-size.
Large - 2		Changes the size of the emulator to large 2-size.
Pop-up Display	Pop-up Display	When selected (indicated by a check mark), displays the calculator LCD as a separate window.
	Small	Changes the size of the LCD window to small-size.
	Medium	Changes the size of the LCD window to medium-size.
	Large - 1	Changes the size of the LCD window to large 1-size.
	Large - 2	Changes the size of the LCD window to large 2-size.
	Large - 3	Changes the size of the LCD window to large 3-size.
	Large - 4	Changes the size of the LCD window to large 4-size.
Capture Screen		Captures the calculator LCD image to the Windows clipboard.

Menu Item	Submenu Item	Description
Capture Setting	Outer Frame	When selected (indicated by a check mark), the calculator LCD image is captured and a boundary is put around it.
	Small	LCD image is captured at small-size.
	Medium	LCD image is captured at medium-size.
	Large - 1	LCD image is captured at large 1-size.
	Large - 2	LCD image is captured at large 2-size.
	Large - 3	LCD image is captured at large 3-size.
	Large - 4	LCD image is captured at large 4-size.
Mode Reference		Displays the Mode Reference.
Emulator Manual		Displays the fx-82SOLAR II Emulator User's Guide.
License		Displays the end user license agreement (EULA).
About		Displays version information.
Exit		Exits the emulator.

Note
• The shortcut menu can be displayed even while the calculator LCD is displayed as a separate window.
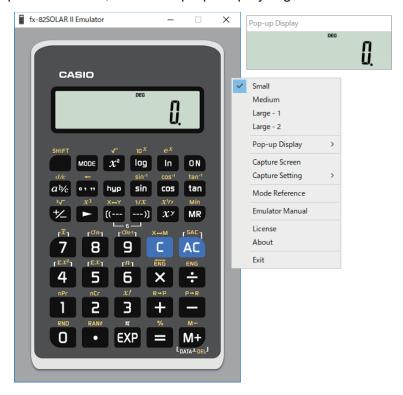
To change the size of the emulator

1. Display the shortcut menu.

2. Select one of the zoom commands from "Small" through "Large - 2" to change the size of the emulator.
  • The currently selected emulator size will have " ✔ " next to it.

To display the LCD as a separate window

1. Display the shortcut menu.

2. Select "Pop-up Display" to display a sub-menu.

3. Select "Pop-up Display" to display the LCD as a separate window.

- A check mark will be next to "Pop-up Display" on the sub-menu while the LCD is displayed as a separate window.
- To close the separate window, select "Pop-up Display" again.

To change the LCD window size

1. Display the shortcut menu.

2. Select "Pop-up Display" to display a sub-menu.

3. Select one of the zoom commands from "Small" through "Large - 4" to change the size of the LCD window.

- The currently selected window size will have "✔" next to it.

To capture the calculator LCD image to the Windows clipboard

1. Display the shortcut menu.

2. Select "Capture Screen" to capture an image of the LCD.

- You can also use Ctrl+C in place of the above two steps to capture the LCD image.

To specify a frame around the LCD image

1. Display the shortcut menu.

2. Select "Capture Setting" to display a sub-menu.

3. Select "Outer Frame".

 • To remove the boundary from the LCD image, select "Outer Frame" again.
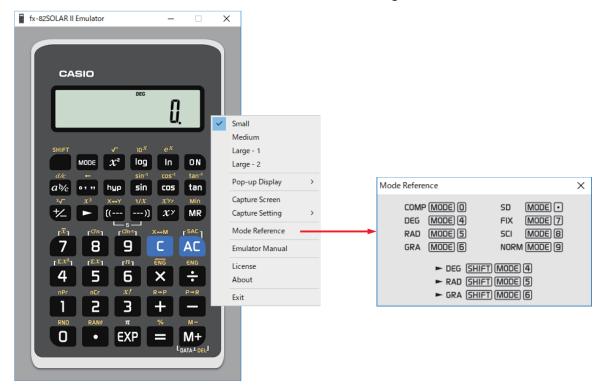

With boundary   Without boundary

To specify the zoom factor for the captured LCD image

1. Display the shortcut menu.

2. Select "Capture Setting" to display a sub-menu.

3. Select a setting from "Small" through "Large - 4" to specify the zoom factor.

 • The currently selected zoom factor size will have " ⏎ " next to it.

To display the Mode Reference

1. Display the shortcut menu.

2. Select "Mode Reference" to display the Mode Reference.

- To close the Mode Reference, select "Mode Reference" again.

To exit the emulator

1. Display the shortcut menu.

2. On the shortcut menu, select [Exit].

Note

- The settings listed below are saved whenever you exit the emulator.
    - Window position (including LCD separate window and Mode Reference)
    - Zoom factor (including LCD separate window, Capture Screen, and Mode Reference)
    - LCD separate window and Mode Reference ON/OFF settings
    - Capture Screen boundary setting

中文（繁體中文）

簡介

- fx-82SOLAR II Emulator 是模仿卡西歐科學計算器操作的軟體。

- 您還可以在另一個單獨的視窗中顯示計算器的 LCD 畫面，並按照需要縮放。

- LCD 畫面可以捕捉下來（複製到 Windows 的剪貼簿中）。

重要！

若您使用投影機投射畫面影像，不要投射在黑板上。否則會使 fx-82SOLAR II Emulator 的畫面難以看清。

■ 如何使用本說明書

- 本說明書對電腦上的軟體操作進行說明，不對電腦的實際操作進行說明。本說明書中的介紹以用戶已熟悉下列標準電腦操作為前提。

  - 使用滑鼠的清單操作，包括：單擊，雙擊，拖放等

  - 一般的視窗操作等

  若您不熟悉這些操作，請參考電腦的用戶說明書。

- 本說明書中的畫面插圖全部來自英文版 Windows® 10。

- 請注意，本軟體顯示的實際畫面依電腦的系統設置及作業系統而不同。

- 本用戶說明書中的插圖範例僅起示範作用。顯示幕畫面上實際出現的文字及數值可能會與本用戶說明書中的範例有所不同。

■ 系統要求

作業系統：　Windows 7（32 位元 / 64 位元）、Windows 8.1（32 位元 / 64 位元）、Windows 10（32
位元 / 64 位元）
硬體配置必須高於作業系統所要求效能。

電腦：　　　預先安裝有 Windows 作業系統的電腦。（作業系統升級過的電腦及自配電腦除外。）

硬磁碟：　　安裝及移除需要 300MB。

註：　　　　實際所需要的環境及產品的效能會因系統配置及作業系統而不同。

其他：　　　視頻卡及顯示器必須支持 XGA（1024×768）以上的解析度及 16 位元以上的系統色彩。
Internet Explorer® 8.0 以上。
Adobe® Reader® 8.0 以上。

註

• Windows 與 Internet Explorer 是 Microsoft Corporation 在美國和 / 或其他國家的註冊商標或商標。

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• 請注意，本用戶說明書並未使用商標 ™ 與註冊商標 ®。

安裝 fx-82SOLAR II Emulator

註

• 請勿將 fx-82SOLAR II Emulator 安裝到其他軟體使用的資料夾中。

1. 在電腦上按兩下 fx-82SOLAR II Emulator 應用程式的 EXE 檔案。

2. 按照畫面上顯示的文字說明執行操作。

解除安裝 fx-82SOLAR II Emulator

使用 Windows 控制台將軟體解除安裝。

fx-82SOLAR II Emulator 的使用

■ 仿真器的操作
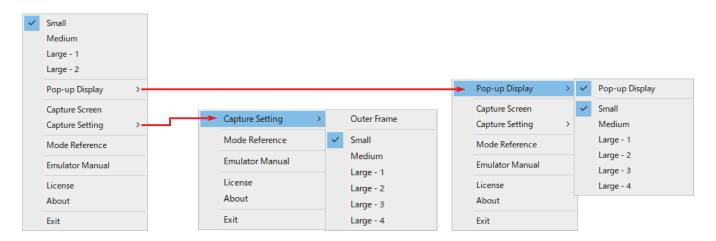
• 要在電腦畫面上操作虛擬計算器時，通過單擊 "按" 其按鈕。

• 您還可以在電腦鍵盤上進行下列鍵操作。

電腦鍵盤	計算器的鍵
TAB	AC
Space（空白）	AC
F1	SHIFT
F2	MODE
F3	ON
Home（歸位）	MODE
Enter（回車）	=
Delete（刪除）	▶（退格）
Back Space（退格）	▶（退格）
^	x^y
( )	[(⋯ ⋯)]
+−*/	＋ ─ ✕ ÷
.（句點）	・
0 — 9	0 — 9
Ctrl+C	Capture Screen（捕捉畫面）

註

• 仿真器的計算速度取決於電腦的速度，與實際計算器的計算速度不同。

■ 仿真器的捷徑清單

• 當滑鼠指針位於仿真器上面時，執行下面的任一操作，將顯示一個捷徑清單。

- 用您的滑鼠單擊右鍵。

- 按下您電腦鍵盤的應用程式索引鍵。

清單項	子清單項	說明
Small		將仿真器的尺寸變更為小尺寸。
Medium		將仿真器的尺寸變更為中尺寸。
Large - 1		將仿真器的尺寸變更為大尺寸 1。
Large - 2		將仿真器的尺寸變更為大尺寸 2。
Pop-up Display	Pop-up Display	被選擇時（由勾選記號表示），打開另一個視窗顯示計算器的 LCD。
	Small	將 LCD 視窗尺寸變更為小尺寸。
	Medium	將 LCD 視窗尺寸變更為中尺寸。
	Large - 1	將 LCD 視窗尺寸變更為大尺寸 1。
	Large - 2	將 LCD 視窗尺寸變更為大尺寸 2。
	Large - 3	將 LCD 視窗尺寸變更為大尺寸 3。
	Large - 4	將 LCD 視窗尺寸變更為大尺寸 4。
Capture Screen		將計算器的 LCD 畫面捕捉到 Windows 的剪貼簿中。
Capture Setting	Outer Frame	被選擇時（由勾選記號表示），捕捉計算器的 LCD 畫面並在四周加框。
	Small	以小尺寸捕捉 LCD 畫面。
	Medium	以中尺寸捕捉 LCD 畫面。
	Large - 1	以大尺寸 1 捕捉 LCD 畫面。
	Large - 2	以大尺寸 2 捕捉 LCD 畫面。
	Large - 3	以大尺寸 3 捕捉 LCD 畫面。
	Large - 4	以大尺寸 4 捕捉 LCD 畫面。
Mode Reference		顯示模式參考。

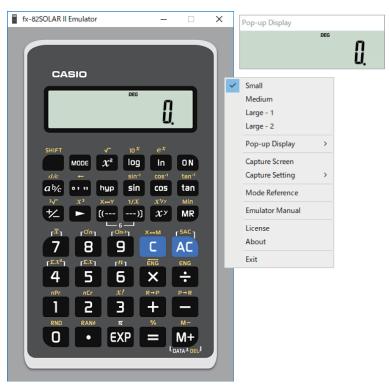| 清單項	子清單項	說明
Emulator Manual		顯示 fx-82SOLAR II Emulator 的用戶說明書。
License		顯示使用者授權合約（EULA）。
About		顯示版本訊息。
Exit		結束仿真器。

註
• 即使在計算器 LCD 作為一個單獨的視窗顯示時，亦可以顯示捷徑清單。

如何改變仿真器的尺寸

1. 顯示捷徑清單。

2. 從 "Small" 到 "Large‑2" 選擇一個縮放指令，以變更仿真器的尺寸。
   • 目前選定的仿真器尺寸旁邊會顯示 "↵"。

如何以一個單獨的視窗顯示 LCD

1. 顯示捷徑清單。

2. 選擇 "Pop-up Display" 顯示子清單。

3. 選擇 "Pop-up Display" 以一個單獨的視窗顯示 LCD。
   • 當 LCD 以一個單獨的視窗顯示時，子清單上的 "Pop-up Display" 的旁邊會出現勾選記號。
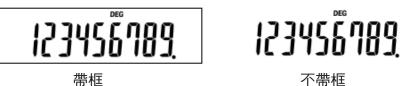   • 要關閉此單獨視窗時，請再次選擇 "Pop-up Display"。

如何改變 LCD 視窗的尺寸

1. 顯示捷徑清單。

2. 選擇"Pop-up Display"顯示子清單。

3. 從"Small"至"Large－4"中選擇一個縮放指令，改變 LCD 視窗的尺寸。
   • 目前選擇的視窗尺寸的旁邊將出現" ✔ "。

如何將計算器的 LCD 畫面捕捉到 Windows 的剪貼簿中

1. 顯示捷徑清單。

2. 選擇"Capture Screen"捕捉 LCD 畫面。
   • 除上述兩步操作之外，用 Ctrl＋C 鍵也能捕捉 LCD 畫面。

如何為 LCD 畫面加框

1. 顯示捷徑清單。

2. 選擇"Capture Setting"顯示子清單。

3. 選擇"Outer Frame"。
   • 要移除 LCD 畫面的邊框時，請再次選擇"Outer Frame"。
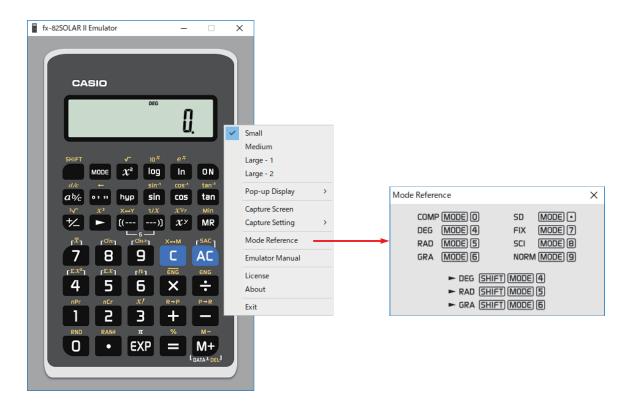

DEG	DEG
123456789.	123456789.
帶框	不帶框

如何指定 LCD 畫面的捕捉倍率

1. 顯示捷徑清單。

2. 選擇"Capture Setting"顯示子清單。

3. 從"Small"至"Large－4"中選擇設定，指定倍率。
   • 目前選擇的倍率的旁邊將出現" ✔ "。

顯示模式參考

1. 顯示捷徑清單。

2. 選擇 "Mode Reference"，顯示模式參考。
   • 若要關閉模式參考，請再選擇一次 "Mode Reference"。

如何結束仿真器

1. 顯示捷徑清單。

2. 在捷徑清單上選擇 [Exit]。

註
• 結束仿真器時，下列設定將被保存。
   • 視窗位置（包括 LCD 單獨視窗和 Mode Reference）
   • 倍率（包括 LCD 單獨視窗、Capture Screen 和 Mode Reference）
   • LCD 單獨視窗和 Mode Reference 的 ON／OFF 設定
   • Capture Screen 邊框設定

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