For ClassPad II Series

E

ClassPad Manager Subscription

(for Windows®, for Macintosh)

User's Guide

CASIO Education website URL

https://edu.casio.com

Manuals are available in multi languages at

https://world.casio.com/manual/calc/

CASIO®

Getting Started

- You can use ClassPad Manager to develop programs and eActivities using the same commands as those available on the ClassPad. You can store your programs and eActivities on your computer.
- ClassPad Manager provides the following capabilities.
  - · ClassPad emulation, which lets you perform ClassPad operations on your computer
  - · ClassPad emulation screen capture (to the clipboard) and screen printing
  - · Copy and paste of data (text, values, expressions, etc.) between ClassPad Manager and other applications

Note

- See your ClassPad User's Guide for details about operating the on-screen ClassPad unit emulator.
- The explanations in this manual cover both Windows and Mac OS. Most of the screen shots are from Windows 8.1, but operational procedures are virtually identical for both Windows and Mac OS.
- Mac OS: Where instructed to "right-click" in the text of this manual, Mac OS users should "control+click".
- 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.
- Some operations may differ from those described in the manual depending on the OS or language installed on your PC.

System Requirements

Windows

Operating Systems: Windows 7 (32-bit/64-bit), Windows 8.1 (32-bit/64-bit) (Desktop UI), 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: 200MB 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 (up to FHD (1920×1080)), 16 bit or higher system color.
Adobe® Reader® 8.0 or later.

Mac OS

Operating Systems: OS X 10.11, macOS 10.12, macOS 10.13, macOS 10.14
Your hardware configuration needs higher than functionalities that operating system recommends.

Computer: Computer with one of the Macintosh operating systems pre-installed (Excluding computers with an upgraded operating system.)

Disk Space: 200MB 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.
For Retina display, use of the Low Resolution mode is recommended.
Safari 5.1 or later.
Adobe Reader 8.1 or later.

Note

- For the latest information about system requirements, visit the website at the URL below:
  https://world.casio.com/support/os_support/
- Windows is a registered trademark or trademark of Microsoft Corporation in the United States and/or other countries.
- Mac, Mac OS, OS X, macOS, Macintosh, Safari and Retina are registered trademarks or trademarks of Apple Inc. in the United States and/or other countries.
- Adobe and Reader are either registered trademarks or trademarks of Adobe Systems Incorporated in the United States and/or other countries.
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Chapter 1
Installing, Uninstalling or Updating the Software

The installation procedure is slightly different for Windows and Mac OS. Perform installation in accordance with the instructions that appear on your computer screen.

Installing

■ To install ClassPad Manager

1. On your computer, double-click the ClassPad Manager application EXE file.
2. Perform operations as instructed by the text that appears on the screen.

Uninstalling

Windows

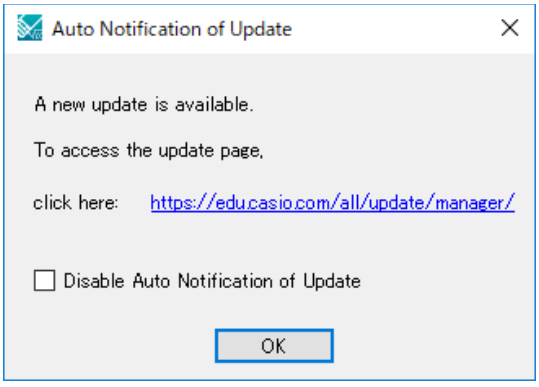
Use Windows Control Panel to uninstall the software.

Mac OS

1. Move ClassPad Manager Subscription(.app) to the Trash folder.
2. From the menu, select [Finder] and then [Empty Trash].

Auto Notification of Update

If your computer is connected to the Internet, the application will connect to the CASIO server whenever you start it up. When there is an update file for ClassPad Manager on the CASIO server, a dialog box will appear to let you know.



https://edu.casio.com/all/update/manager/: Clicking this link will start up your browser and go to the CASIO website.

Clicking [OK] will close the dialog box.

You can disable further auto-notification of updates by selecting the check box next to “Disable Auto Notification of Update” before clicking [OK]. To re-enable auto-notification of updates, select “Auto Notification of Update” on the ClassPad Manager Help menu.

Starting Up and Quitting ClassPad Manager

■ To start up and quit ClassPad Manager

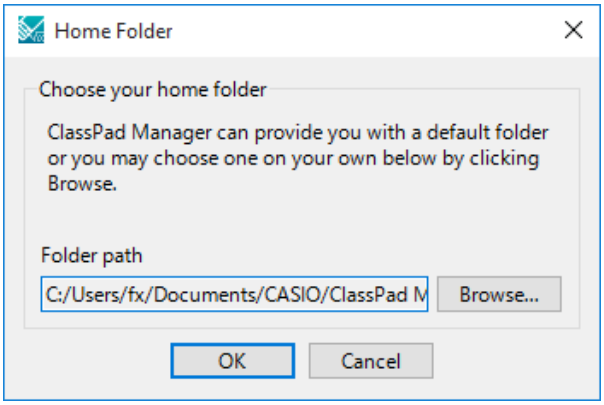
1. Windows: On your computer's desktop, double-click "ClassPad Manager".
   Mac OS: In the "Applications" - "CASIO" - "ClassPad Manager Subscription for ClassPad II" folder, double-click "ClassPadManagerSubscriptionForClassPadII".
   - This starts up ClassPad Manager.

2. On ClassPad Manager, perform the management tasks you want.

3. To quit ClassPad Manager, move the cursor to the ClassPad Manager window, right-click anywhere within the ClassPad Manager, and then select [Exit] on the shortcut menu that appears. You can also click [Shift] - [⏻ Clear] to quit ClassPad Manager.

Note

The dialog box shown below appears when you start up ClassPad Manager for the first time.



Clicking [OK] will configure Documents\CASIO\ClassPad Manager for ClassPad II as the ClassPad Manager home folder. You could also click [Browse] and select a different folder as the home folder. For details about configuring the home folder, see "Home Folder" on page E-12.

ClassPad Manager Data

Your ClassPad stores eActivity data in one memory area, and all other data (application data and variables) in a different memory area. eActivity data is stored in "eActivity area", while other data is stored in "Main memory". For details, see the ClassPad User's Guide.

ClassPad Manager stores both types of data on your computer's hard drive in "Virtual File" (.vcp) format files. Under initial default settings, a file named "default.vcp" is created automatically for use as the ClassPad Manager's "Active Document".

Chapter 2
Using the ClassPad Manager

Note

For details about ClassPad applications and operations, see the ClassPad User's Guide.

ClassPad Manager Overview

The ClassPad Manager puts a virtual ClassPad on your computer screen, which you can use to perform almost all of the operations that are available on your ClassPad. This section explains the differences between ClassPad Manager operations and the ClassPad unit, and among the three ClassPad Manager modes.

Differences between the ClassPad Manager and the Functions of ClassPad Applications

The following are the differences between the ClassPad Manager and the functions of the ClassPad applications.

- Certain ClassPad settings and functions that are not required when running on a computer (such as touch panel calibration) are disabled on the ClassPad Manager. Attempting to access a disabled setting or function will cause the message "Unavailable" to appear on the display.

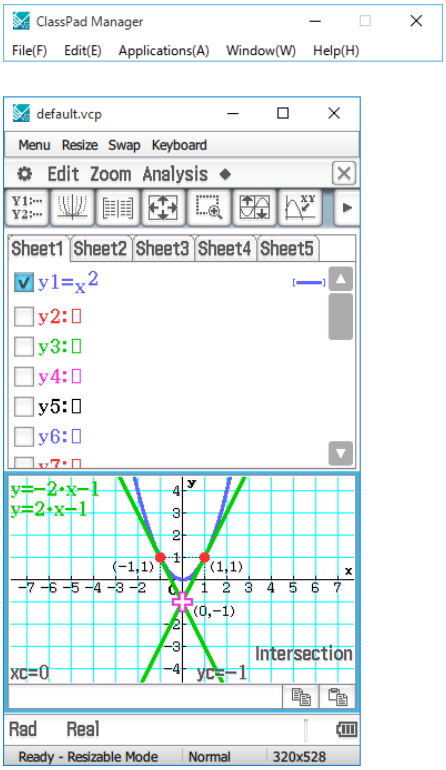
- Use the procedure below to install an Add-In application.
  1. Use Explorer to open the Home Folder.
  2. Copy to the Home Folder the C2A file of the Add-in application you want to install.
  3. On your ClassPad Manager, display the Application Menu.
     - The icon of the Add-In application you installed should be displayed on the Application Menu.

ClassPad Manager Display Mode

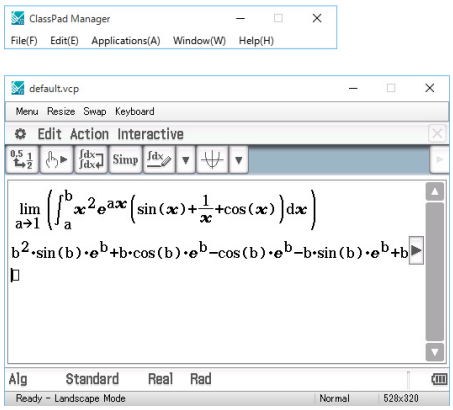
The ClassPad Manager has three display modes: a Resizable Mode, a Landscape Mode and a Fixed-size Mode.

- You can use the Landscape Mode while any one of the following is displayed: Application Menu, or the Main, Graph & Table, Conics, or Physium application.
- The Resizable Mode/Landscape Mode provides functionality that is virtually identical to that as the ClassPad, but in a typical Windows/Mac OS operating environment. The Resizable Mode/ Landscape Mode also provides a number of special extended functions that are not available on the Fixed-size Mode. For details, see “Using ClassPad Manager in the Resizable Mode/ Landscape Mode” on page E-13.
- The Fixed-size Mode displays a virtual ClassPad that looks almost the same as your ClassPad unit.

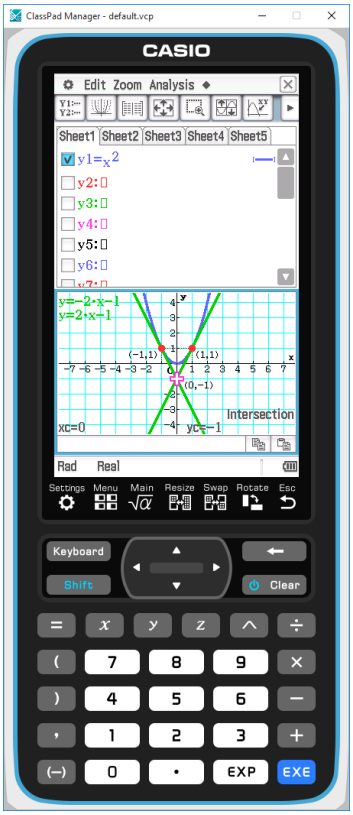
Windows



Resizable Mode

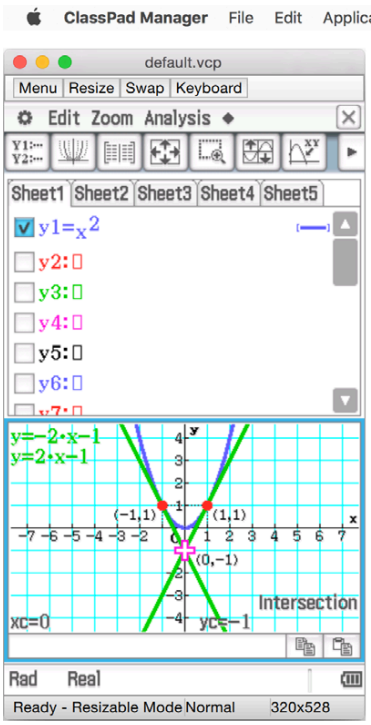


Landscape Mode

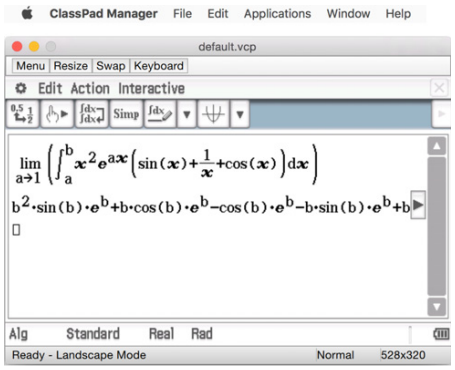


Fixed-size Mode

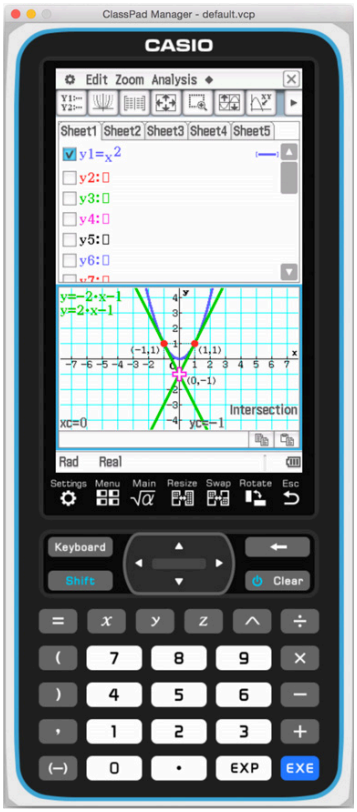
Mac OS



Resizable Mode



Landscape Mode



Fixed-size Mode

■ To select the display mode

Right-click anywhere within the ClassPad Manager, and then click [Resizable Mode], [Landscape Mode] or [Fixed-size Mode] on the shortcut menu that appears.

ClassPad Manager Operations

This section explains the operations you can perform on the Resizable Mode, Landscape Mode and Fixed-size Mode screens of the ClassPad Manager.

Computer Keyboard Operations

The following are the operations you can perform on your computer keyboard to control the ClassPad application that is currently running in the ClassPad Manager.

- Alphanumeric input
- Cursor key operations (The cursor keys of your computer correspond to the ClassPad cursor keys.)
- Input of special characters (like π) and commands using shortcut key operations

Note

For information about shortcut keys, see “ClassPad Manager Shortcut Keys” in the Appendix on page E-25.

Copy and Paste

■ To copy a screen image to the clipboard

1. Display the image you want to copy.

2. Right-click anywhere within the ClassPad Manager, and then click [Capture Screen] on the shortcut menu that appears.
   - The above procedure copies an image of the screen you displayed in step 1 to the clipboard.
   - After that, you can then paste the image into another application.

Tip

- If Resizable Mode/Landscape Mode is selected as the display mode, select [Capture Screen] on the [Edit] menu in step 2 instead of using the shortcut menu.
- If you have two application windows on the display in the Resizable Mode/Landscape Mode, the above [Capture Screen] command will copy both windows as they appear on your computer screen. If you want to copy a specific application window, click the window to make it active and then click [Capture Current Panel] on the [Edit] menu in step 2 of the above procedure.

■ To copy alphanumeric text from the screen to the clipboard

1. On the ClassPad Manager, drag your mouse pointer across the range of text you want to select, so it becomes highlighted.

2. On your computer keyboard, press [Ctrl] + [C]* to copy the selected text.
   * Mac OS: [command] + [c]
   - This copies the text you selected in step 1 to the clipboard (as Unicode text).
   - After that, you can paste the text you copied into another application (as Unicode text).

■ To paste text from the clipboard into the ClassPad Manager

1. In other applications, copy the text you want to the clipboard.
2. On the ClassPad Manager, open the ClassPad application into which you want to paste the clipboard text.
3. Right-click anywhere within the ClassPad Manager, and then click [Paste Special] on the shortcut menu that appears.
   - This pastes the text on the clipboard into the ClassPad Manager.

Note

"Paste Special" detects what is on the clipboard and then pastes it as text, or MathML data.

You can use "Paste Special" to paste text or MathML data created by other applications.

Important Warning

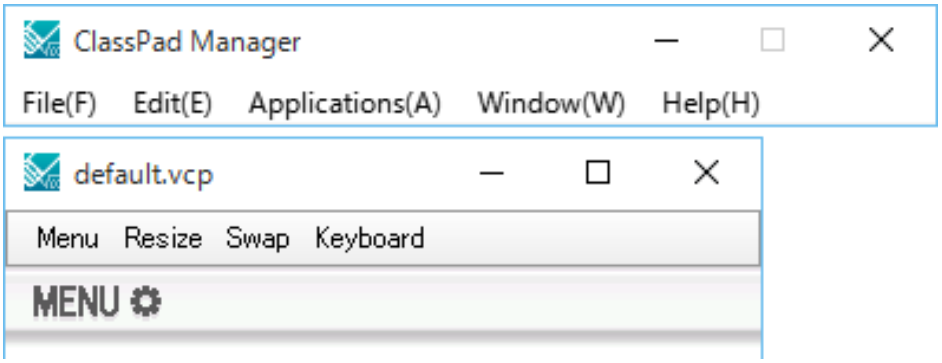
When the ClassPad detects MathML data on the clipboard, the ClassPad will attempt to paste it in a 2D math form (natural input form) without warning you. There is no guarantee that the pasted form will be identical to what was copied from other applications.

vcp File Operations (New, Open, Save, Save As)

This section explains how to perform the following vcp file operations on the ClassPad Manager: New, Open, Save, and Save As.

■ To create a new vcp file

1. Right-click anywhere within the ClassPad Manager, and then click [File] - [New] on the shortcut menu that appears.
   - This displays the Create New Document dialog box.
2. Type the name of the new file into the "File Name" box.
3. Click [Save].
   - This creates a new vcp file and makes it the active document.



■ To open an existing vcp file using drag and drop

Drop the vcp file into the ClassPad Manager.

■ To open an existing vcp file using the menu command

1. Right-click anywhere within the ClassPad Manager, and then click [File] - [Open] on the shortcut menu that appears.
   - This displays the Open dialog box.
2. On the dialog box, select the file you want to open and then click [Open].
   - This opens the file you selected and makes it the active document.

■ To save the currently open vcp file

Right-click anywhere within the ClassPad Manager, and then click [File] - [Save] on the shortcut menu that appears.

Note

The current active document is saved automatically whenever you quit ClassPad Manager. When you start up ClassPad Manager the next time, the active document that was open during your last session opens automatically.

■ To save the currently open vcp file under a different name

1. Right-click anywhere within the ClassPad Manager, and then click [File] - [Save As] on the shortcut menu that appears.
   - This displays the Save As dialog box.
2. Type the new name into the “File Name” box.
3. Click [Save].
   - This saves the currently open vcp file under the new name and makes the new file the active document.

Home Folder

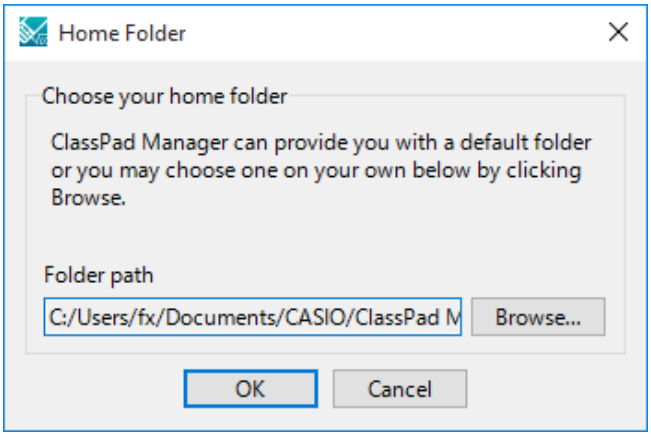
The home folder is where ClassPad Manager creates your default document.

You can also use the home folder as a ClassPad Storage area. Storing an XCP, VCP, C2P, C2B, or C2A file in the ClassPad Storage area will make it available for use by ClassPad Manager. For details about the Storage area and XCP/VCP/C2P/C2B/C2A files, see the ClassPad User's Guide.

By default, the home folder is located in Documents\CASIO\ClassPad Manager for ClassPad II.

■ To change the home folder

1. Right-click anywhere within the ClassPad Manager, and then click [File] - [Change Home Folder] on the shortcut menu that appears.
   - This will display a Home Folder dialog box like the one shown below.



2. Click [Browse].
   - This displays the Browse Folder dialog box.
3. Select the folder you want to use as the home folder and then click [OK].
   - This returns to the Home Folder dialog box.
4. Click [OK].
   - This registers the folder you selected in step 3 as your home folder.

Clearing Main Memory (Reset)

■ To clear all data, except for eActivity files

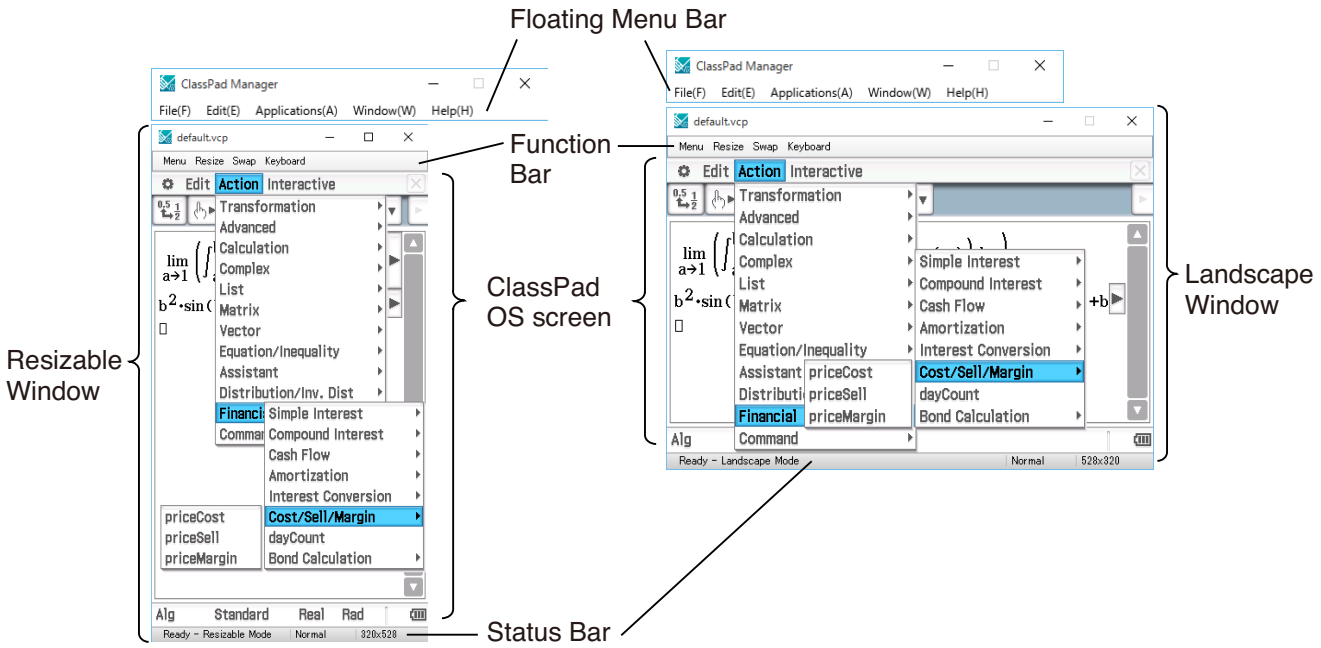
1. Right-click anywhere within the ClassPad Manager, and then click [File] - [Reset] on the shortcut menu that appears.
   - This will display a confirmation dialog box with the message "Reset Memory? Are you sure?".
2. To clear memory, click [Yes]. To cancel the operation without clearing anything, click [No].

Using ClassPad Manager in the Resizable Mode/ Landscape Mode

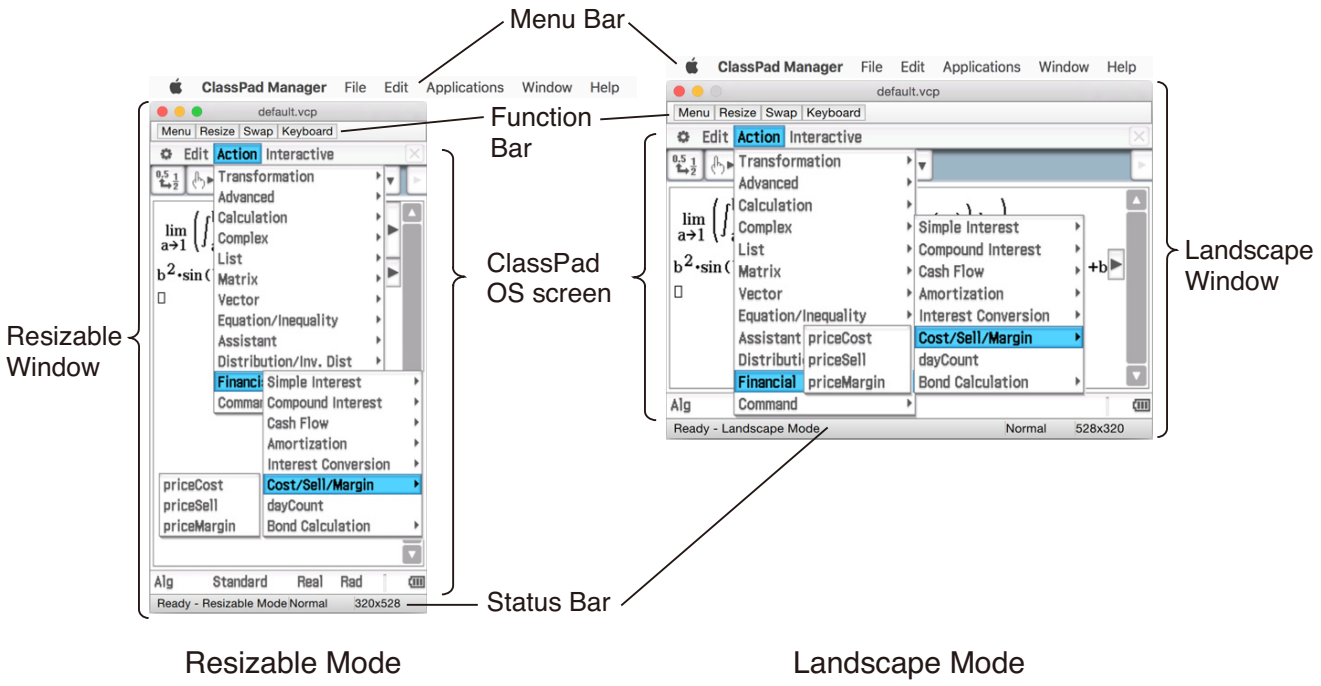
Resizable Mode/Landscape Mode Screen Structure

The following shows the structure of the ClassPad Manager in the Resizable Mode/Landscape Mode.

Windows



Mac OS



Resizable Window/Landscape Window

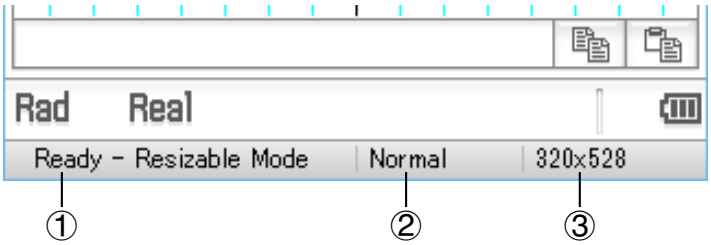
Note

The Resizable Window size can be changed by clicking border and then dragging it to the size you want. Adjust the Resizable Window so the ClassPad OS screen is at least 320×528.

Floating Menu Bar* — The menu bar has five menus: File, Edit, Applications, Window, and Help. The menu bar “floats”, which mean that you can move it around independent of the Resizable Window/Landscape Window (Windows only).

Function Bar — The function bar includes four buttons that correspond to the ClassPad’s icon panel (Menu, Resize, Swap), along with a “Keyboard” button that corresponds to the ClassPad’s [Keyboard] key.

Status Bar — The status bar shows the following information.



① ClassPad Manager status and other messages

② Current zoom setting (Normal, Large, or Xlarge)
For more information, see “Changing the ClassPad OS Screen Zoom Setting (Zoom)” on page E-15.

③ Size of ClassPad OS screen displayed on the current window

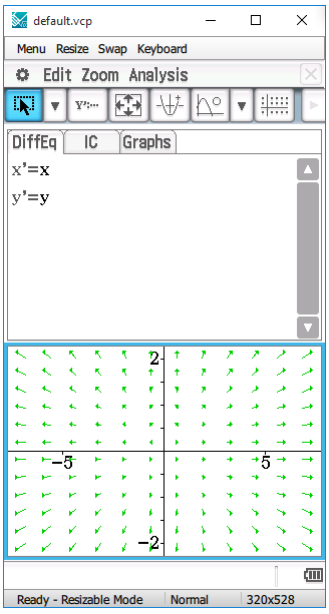
* Mac OS: Menu Bar

Using the Floating Menu Bar to Start Up a ClassPad Application

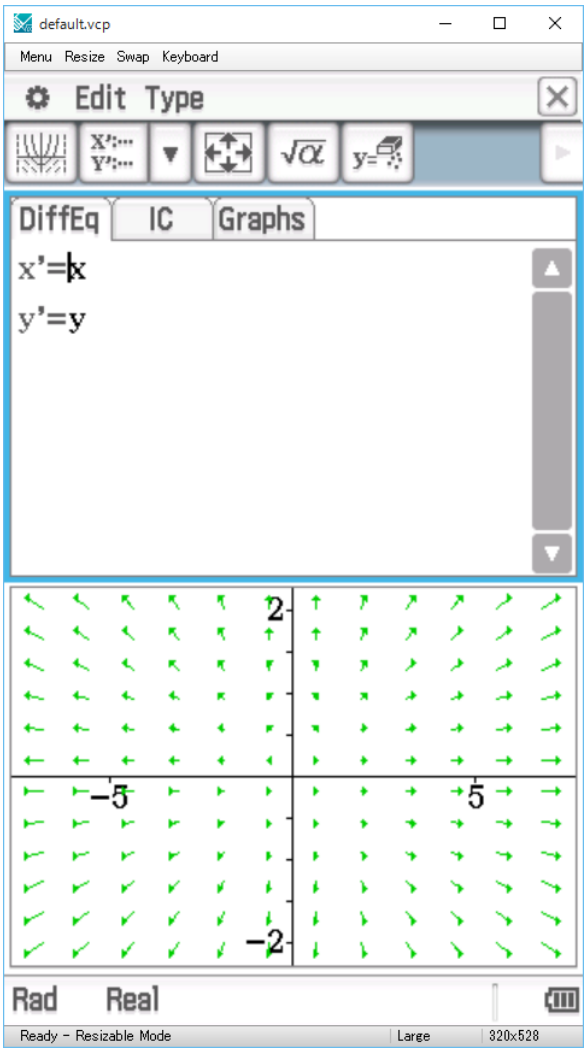
You can start up an application by clicking the [Applications] menu and then the name of the application on the menu.

Changing the ClassPad OS Screen Zoom Setting (Zoom)

To change the ClassPad OS screen zoom setting, right-click anywhere within the window, and then click [Zoom] - [Normal], [Zoom] - [Large], or [Zoom] - [Xlarge].



[Zoom] - [Normal]



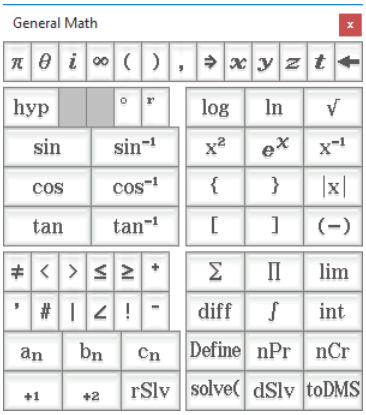
[Zoom] - [Large]

Note

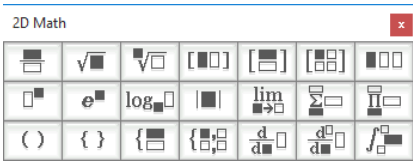
You can also change the zoom setting by clicking [Zoom] - [Normal], [Zoom] - [Large], or [Zoom] - [Xlarge] on the floating menu bar's [Window] menu.

Displaying Key Palettes

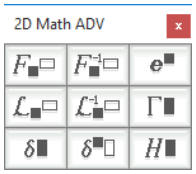
Clicking [Window] - [Palettes] on the floating menu bar will display a sub-menu of key palettes. Click a key palette name to display it. Each key palette can be opened, closed and repositioned independently.



[General Math]

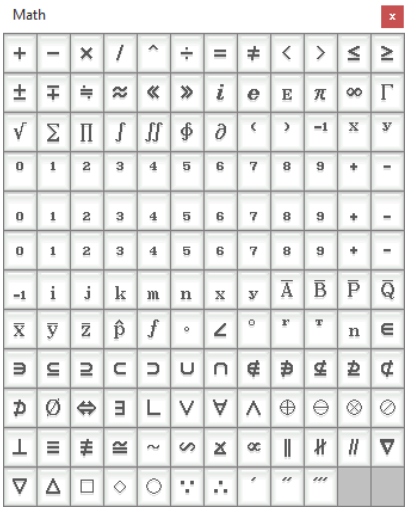


[2D Math]

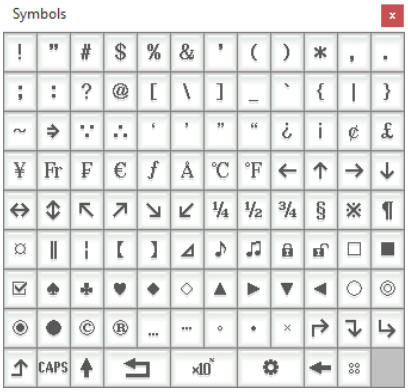


[2D Math ADV]

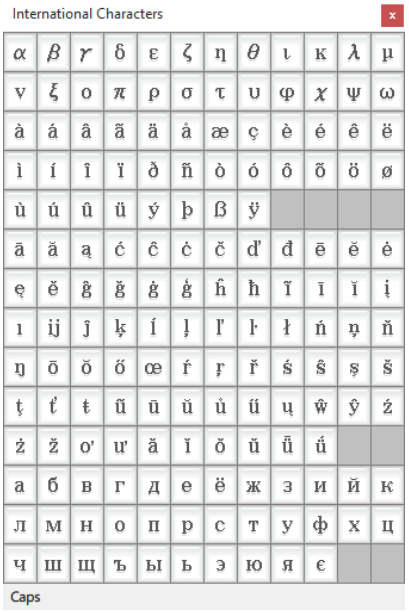
[Variables]



[Math]



[Symbols]



[International Characters]

Note

You can also display a soft keyboard by clicking the [Keyboard] button on the function bar, just like on your ClassPad.

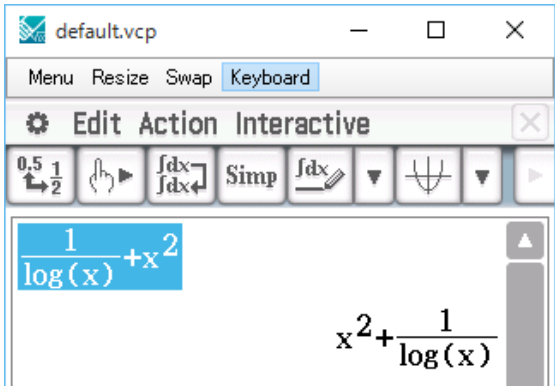
Generating MathML Data

ClassPad Manager can output algebraic expressions and text you input with the Main application, eActivity application, or other application as a MathML file (.mml). You can also copy algebraic expressions and text as MathML data (content, presentation, or combined format) to the clipboard.

■ To export a selected algebraic expression to a MathML file

Example: To output an algebraic expression input with the Main application to a MathML file

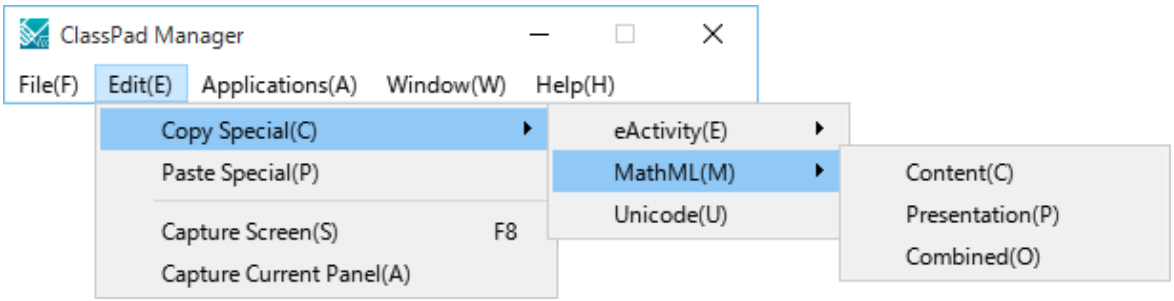
1. Click [Applications] - [Main] to start up the Main application.
2. Input the algebraic expression you want to output to the MathML file.
3. Drag your mouse pointer across the expression to select (highlight) it.



4. Click [File] - [Export MathML].
   - This displays the Save As dialog box.
5. Type in the file name, and then click [Save].
   - This saves the expression you selected in step 3 as an mml file.

■ To copy a selected algebraic expression as MathML data to the clipboard

1. Select (highlight) the expression you want to copy by dragging your mouse pointer across it.
2. Click [Edit] - [Copy Special] - [MathML].
   - This displays the sub-menu shown below.



3. Click the sub-menu item you want.

To copy data using this type of MathML markup:	Select this option:
Content • Content markup captures the mathematical structure.	Content
Presentation • Presentation markup captures notational structure.	Presentation
Combined • Combined uses content markup whenever possible. Otherwise, it uses presentation markup.	Combined

- Please consult the Internet or other publications for full details about MathML content markup and presentation markup.

Copying algebraic Expressions and Text as Unicode Text

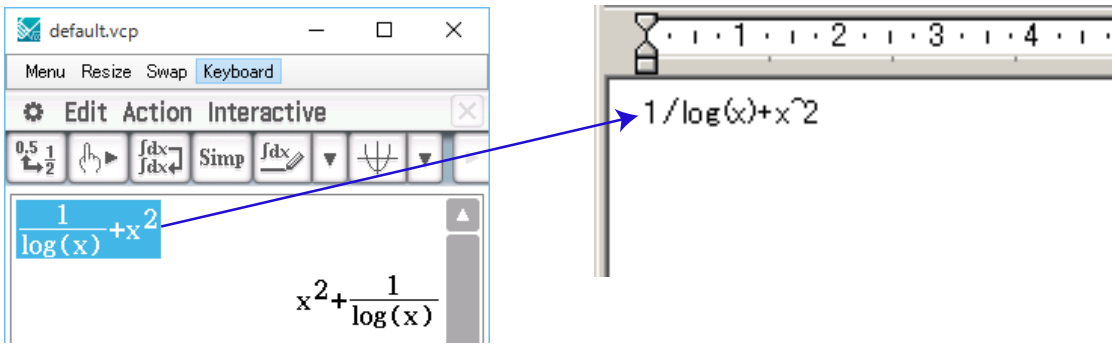
You can use the procedure below to copy text or an algebraic expression you selected on the ClassPad application to the clipboard as Unicode text.

■ To copy algebraic expressions or text as Unicode text

1. Select (highlight) the expression or text you want to copy by dragging your mouse pointer across it.

2. Click [Edit] - [Copy Special] - [Unicode].

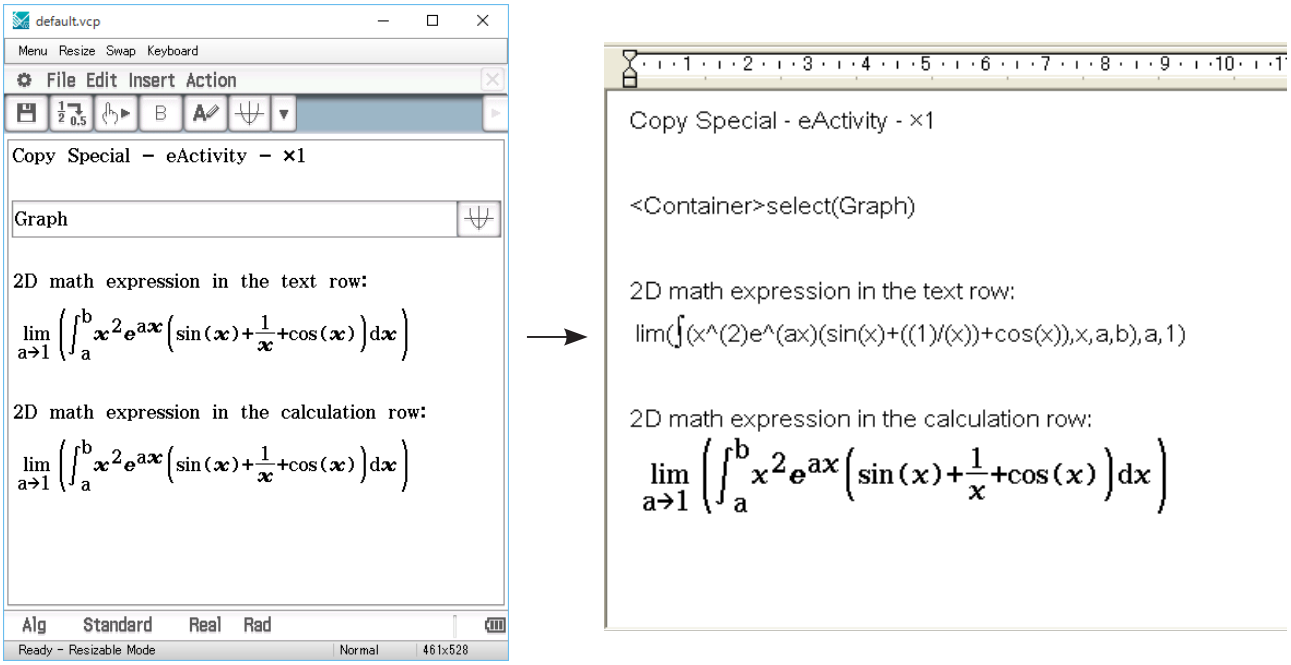
- This copies the selected expression or text to the clipboard as Unicode text.
- You can paste the copied text into any other application that supports text editing.



Copying an Entire eActivity (Windows only)

You can copy the entire content of an eActivity that is currently opened with the eActivity application to the clipboard. The format of the copied data depends on whether it comes from a text row, calculation row, or strip.

text row	Copied as Unicode text. Since a natural display expression that was input with the 2D Keyboard into a text row is copied as Unicode text, the natural display format is lost. Text rows can be edited within other applications.
calculation row	Both the calculation expression and its result are copied as bitmaps. Because of this, a natural display expression that was input with the 2D Keyboard into a calculation row is copied as an image, just as it appears on the Resizable Window/Landscape Window. Calculation rows cannot be edited within other applications.
strip	The string “<Container>” is inserted in place of the strip. If the strip has a title, the title is appended to the right of “<Container>”.



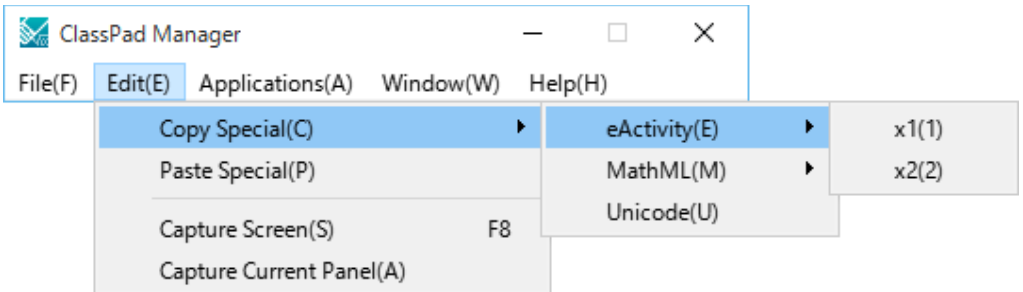
Original eActivity

Data Pasted in WordPad

■ To copy an entire eActivity

1. Open the eActivity whose content you want to copy.

2. Click [Edit] - [Copy Special] - [eActivity].
   - This displays the sub-menu shown below.



3. Click the sub-menu item you want.

To specify this option:	Select this option:
Calculation rows copied as actual size (×1) bitmaps	×1
Calculation rows copied as double size (×2) bitmaps	×2

- Clicking ×1 or ×2 copies all of the content of the currently open eActivity to the clipboard.
- You can paste the copied text and bitmaps into WordPad or any other application that supports text editing and bitmaps.

Resizable Mode/Landscape Mode Menu Commands

■ Shortcut Menu Commands

To do this:	Select this menu item:
Change to the Fixed-size Mode	Fixed-size Mode
Change to the Resizable Mode*1	Resizable Mode
Change to the Landscape Mode*2	Landscape Mode
Create a new vcp file*2	File - New
Open an existing file*2	File - Open
Save changes to the current vcp file	File - Save
Save the current vcp file with a new name	File - Save As
Change the home folder	File - Change Home Folder
Clear Main memory	File - Reset
Reopen one of the four most recently opened files*2	Recent Documents
Print the current screen (Windows only)	Print
Paste the text on the clipboard	Paste Special
Capture a screenshot of the virtual ClassPad screen to the clipboard	Capture Screen
Keep the ClassPad Manager window and all of its sub-windows on top of all other windows	Always on top
Minimize the ClassPad Manager window	Minimize
Change the ClassPad OS screen zoom setting	Zoom
Show ClassPad Manager version, Serial Number, and other information	About ClassPad Manager
Start up your browser and go to the CASIO website	Search ClassPad Manual
Open the ClassPad Manager manual	Search ClassPad Manager Manual
Open the Activation manual	Search Activation Manual
Show information about the license agreement	License Agreement
Displays the activation screen. For details, see the Activation User's Guide.	Activation
Quit the ClassPad Manager application	Exit

*1 Landscape Mode only *2 Resizable Mode only

■ [File] Menu Commands

To do this:	Select this menu item:
Create a new vcp file*	New
Open an existing vcp file*	Open
Save changes to the current vcp file	Save
Save the current vcp file with a new name	Save As
Clear Main memory	Reset
Change the home folder	Change Home Folder
Export selected math expressions and text to an mml file	Export MathML
Print the current screen (Windows only)	Print
Reopen one of the four most recently opened files*	1 <file name> 2 <file name> 3 <file name> 4 <file name>
Quit the ClassPad Manager application (Windows only)	Exit

* Resizable Mode only

■ [Edit] Menu Commands

To do this:	Select this menu item:
Copy an entire eActivity (Windows only)	Copy Special - eActivity
Copy the selected math expression with content markup	Copy Special - MathML - Content
Copy the selected math expression with presentation markup	Copy Special - MathML - Presentation
Copy the selected math expression with combined content and presentation markup	Copy Special - MathML - Combined
Copy the selected text as Unicode	Copy Special - Unicode
Paste text from the clipboard	Paste Special
Capture a screenshot of the virtual ClassPad screen to the clipboard	Capture Screen
Capture a screenshot of the current active panel to the clipboard	Capture Current Panel

■ [Applications] Menu Commands

To do this:	Select this menu item:
Display the Application menu	Menu
Start up an application	Applicable menu item

■ [Window] Menu Commands

To do this:	Select this menu item:
Change to the Fixed-size Mode	Fixed-size Mode
Change to the Resizable Mode*1	Resizable Mode
Change to the Landscape Mode*2	Landscape Mode
Keep the ClassPad Manager Window and all of its sub-windows on top of all other windows	Always on top
Minimize the ClassPad Manager Window	Minimize
Change the ClassPad OS screen zoom setting to normal size	Zoom - Normal
Change the ClassPad OS screen zoom setting to large size	Zoom - Large
Change the ClassPad OS screen zoom setting to Xlarge size	Zoom - Xlarge
Open the ClassPad keyboard	Keyboard
Open the General Math key palette	Palettes - General Math
Open the 2D Math key palette	Palettes - 2D Math
Open the 2D Math ADV key palette	Palettes - 2D Math ADV
Open the Variables key palette	Palettes - Variables
Open the Math key palette	Palettes - Math
Open the Symbols key palette	Palettes - Symbols
Open the International Characters key palette	Palettes - International Characters
Resize the currently active window (when there are two windows displayed) so it fills the entire display, or return to the dual window display again	Resize
Swap the upper and lower windows, or swap full size windows when one is open behind another	Swap

*1 Landscape Mode only *2 Resizable Mode only

■ [Help] Menu Commands

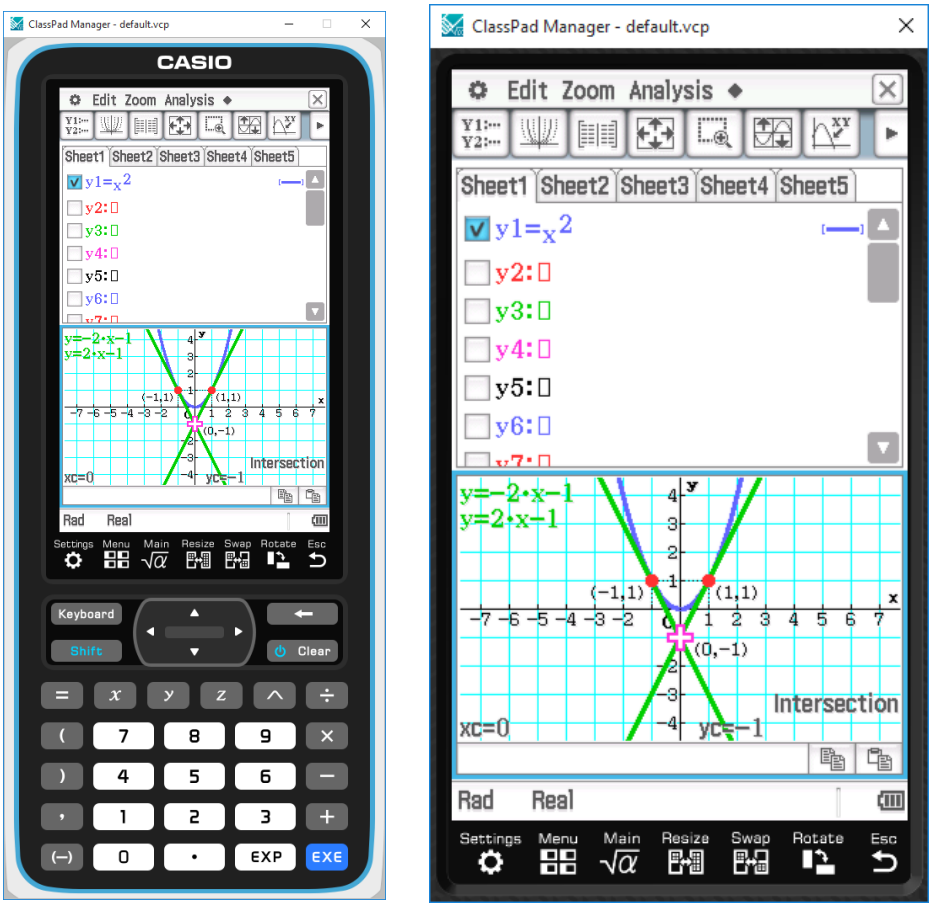
To do this:	Select this menu item:
Start up your browser and go to the CASIO website	Search ClassPad Manual
Open the ClassPad Manager manual	Search ClassPad Manager Manual
Open the Activation manual	Search Activation Manual
Toggle Auto Notification of Update between enabled and disabled. Auto Notification of Update is enabled when this menu item has a check box next to it.	Auto Notification of Update
Show information about the license agreement	License Agreement
Show ClassPad Manager version, Serial Number, and other information*	About ClassPad Manager
Displays the activation screen. For details, see the Activation User's Guide.	Activation

* Mac OS: [ClassPad Manager] - [About ClassPad Manager]

Using ClassPad Manager in the Fixed-size Mode

LCD Window

In the Fixed-size Mode, you can display only the screen portion (including the Icon Panel) of the ClassPad in a separate window, called the “LCD Window”.



LCD Window

■ To open the LCD Window

Right-click anywhere within the ClassPad Manager, and then click [LCD Window] on the shortcut menu that appears.

■ To close the LCD Window

Windows: Click the ✕ button in the upper right corner of the LCD Window.

Mac OS: Click the ● button in the upper left corner of the LCD Window.

Controlling the Window Zoom Settings

The Fixed-size Mode has four zoom settings: Small, Normal, Large, Xlarge. The LCD Window has three zoom settings: Normal, Large, Xlarge.

■ Changing the Fixed-size Mode Zoom Setting

Right-click anywhere within the Fixed-size Mode, and then click [Zoom] - [Small], [Zoom] - [Normal], [Zoom] - [Large], or [Zoom] - [Xlarge].

■ Changing the LCD Window Zoom Setting

Right-click anywhere within the LCD Window, and then click [Zoom] - [Normal], [Zoom] - [Large], or [Zoom] - [Xlarge].

Fixed-size Mode Menu Commands

■ Shortcut Menu Commands

To do this:	Select this menu item:
Change to the Resizable Mode	Resizable Mode
Change to the Landscape Mode	Landscape Mode
Display a separate LCD Window	LCD Window
Create a new vcp file	File - New
Open an existing vcp file	File - Open
Save changes to the current vcp file	File - Save
Save the current vcp file with a new name	File - Save As
Change the home folder	File - Change Home Folder
Clear Main memory	File - Reset
Reopen one of the four most recently opened files	Recent Documents
Print the current screen (Windows only)	Print
Paste text from the clipboard	Paste Special
Capture a screenshot and store it on the clipboard	Capture Screen
Keep the ClassPad Manager window and all its sub-windows on top of other windows	Always on top
Minimize the ClassPad Manager window	Minimize
Change the window size	Zoom
Show ClassPad Manager version, Serial Number, and other information	About ClassPad Manager
Start up your browser and go to the CASIO website	Search ClassPad Manual
Open the ClassPad Manager Manual	Search ClassPad Manager Manual
Open the Activation manual	Search Activation Manual
Show information about the license agreement	License Agreement
Displays the activation screen. For details, see the Activation User's Guide.	Activation
Quit ClassPad Manager	Exit

Appendix

ClassPad Manager Shortcut Keys

Shortcut Key (Windows)	Shortcut Key (Mac OS)	Function
Ctrl+b	command+b	Bold
Ctrl+c	command+c	Copy
Ctrl+x	command+x	Cut
Ctrl+v	command+v	Paste
Ctrl+i	command+i	Inputs imaginary unit
Ctrl+p	command+p	Inputs π
Ctrl+e	command+e	Inputs e
Ctrl+a	command+a	Select all
Ctrl+t	command+t	Inputs θ
Ctrl+z	command+z	Undo
Ctrl+r	command+r	Resize the active window
Ctrl+k	command+k	Displays the keyboard
Ctrl+n	command+n	Creates a new document
Ctrl+o	command+o	Opens an existing document
Ctrl+6	command+6	Inputs exponential value
Ctrl+Shift+e	—	Inputs E for exponential value
Alt+x	—	Inputs single-character variable x
Alt+y	—	Inputs single-character variable y
Alt+z	—	Inputs single-character variable z
Alt+i	—	Inputs infinity
Alt+s	—	Inputs the square root function (in natural input format)
Alt+F4	—	Closes the ClassPad Manager

Note

The above commands may not be supported depending on your OS, keyboard type, etc.

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Parts of the makeqpf tool

Macros for building Qt files

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qtbase/src/corelib/Qt5CoreMacros.cmake

qtbase/src/dbus/Qt5DBusMacros.cmake

qtbase/src/widgets/Qt5WidgetsMacros.cmake

qttools/src/linguist/Qt5LinguistToolsMacros.cmake

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```
printf(“%s”,png_get_copyright(NULL));
```

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March 26, 2015

Pixman (pixman) version 0.17.11

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Parts of ANGLE in qtbase/src/3rdparty/angle/src/compiler/preprocessor

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The ANGLE project in qtbase/src/3rdparty/angle

Easing Equations

Easing Equations is a collection of swappable functions that add flavor to motion.

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