

Installation and Use instructions for the CADAM Drafting Keypad (USB Version)

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The CADAM Drafting Keypad is designed to be used in parallel with your existing keyboard. While using CADAM Drafting, the keypad will greatly enhance your productivity by allowing rapid access to CADAM Drafting's most commonly used functions. The USB version of the CADAM Drafting Keypad is supported on all personal computers having an available USB connection and running Windows XP and Windows Vista.

Applicable Releases of CADAM Drafting

The CADAM Drafting Keypad is designed for use with both CADAM Drafting V4 and CADAM Drafting for V5. For CADAM Drafting V4, the minimum release that can utilize the full function of the keypad is 424. For CADAM Drafting for V5, the minimum release that can utilize the full function of the keypad is V5R6. If you are using an earlier release, you should first upgrade your CADAM Drafting software to a currently supported level. Please contact your IBM Support Representative or CADAM Value Added Reseller for information on obtaining the latest version of CADAM Drafting. Alternately, the latest CADAM Drafting releases can always be downloaded from www.cadam.com.

Installing the keypad

1. **IMPORTANT: Make sure the keypad programming switch on the upper right side of the keypad is in the "use" (black) position and not the "program" (red) position.** The keypad will not function properly if you attempt to use it while this switch is in the "program" position.
2. Plug the keypad USB connector into an available USB port on the computer.
3. If you are running Window XP or Windows Vista, the keypad should be automatically recognized as new hardware and the correct drivers should be automatically installed and started. The keypad should be ready to use. If the keypad was not recognized, you may need to restart your computer.
4. The keypad has been pre-programmed with the 20 most commonly used CADAM Drafting functions. If you wish to keep this set-up, you may now begin using the keypad with CADAM Drafting. Pressing any key on the keypad should activate the associated function in CADAM Drafting. There is no need to install any additional software, unless you wish to change the programming of the keypad.

Optimizing the displayed function key toolbar

Since the keypad has only 20 keys, some of the less frequently used function keys have not been programmed into it. Unless you reprogram the keypad to add these function keys, you will still need to access these function keys from the displayed function key toolbar. At this point, you may want to remove those function keys that are now available from the keypad from the displayed function key toolbar. Both the 424 (and beyond) and V5R6 (and beyond) releases of CADAM Drafting allow this toolbar to be edited.

1. Select **V**iew, then **C**ustomize.
2. All currently displayed function key toolbar buttons are shown in the **Current toolbar buttons** box. For each button that you no longer need, select that button and then select the **R**emove button. If you are using the keypad in it's pre-programmed setting, you can remove the Point, Line, Circle, Type, Relimit, Corner, Offset, Group, Symbol, Detail, Dimension, Analysis, Note, Show, View, Window, and YN buttons.
3. You are now left with a much smaller toolbar allowing easy location of the function keys that are not programmed into the keypad. You may want to position this toolbar either horizontally or vertically near the bottom of the screen so it is closer to the menu line.

Installing the optional programming software

Note: This software does not need to be installed to use the CADAM Drafting Keypad with the default key assignments. It is only necessary to install it if you wish to reprogram the keypad.

There are two different versions of the CADAM Drafting Keypad that, while they may look alike, use different versions of microcode. There is a separate programming utility for each of these versions. It is important that you use the correct utility for your keypad. To find out which version of the keypad you have, turn it over and look at the first line of text on the label.

If the first line of the label is 'X-keys MWII', use these instructions:

1. Log into your system using a login with administrator privileges.
2. Verify that the level of DirectX on your PC is at least v9.0 and that the .NET Framework is at least at v3.0.
3. The optional programming software can be downloaded from http://www.cadam.com/ccd_products_keypad.htm. Select the link for the 'MWII' version, download this package and unzip it.
4. Double-click on MWIIKeypadUtility.exe to launch the installation program.
5. Click **I Agree** after reading the End User License Agreement.
6. Click **Install** to accept the default installation folder and to begin the installation.
7. A Windows Explorer panel will appear showing the files that were installed. Close this panel.
8. The installation panel should show 'Completed'. Click **Close**.
9. You can now launch the X-keys Hardware Mode Programming Utility from the **Start Menu** (under the "P.I. Engineering" program group). Once started, click on the **Help** menu for instructions on using the utility to modify the programming of the keypad. Note that a keypad must be connected to your computer for the menu options to be available.

If the first line of the label is anything else, such as 'X-keys SE', use these instructions:

1. Log into your system using a login with administrator privileges.
2. The optional programming software can be downloaded from http://www.cadam.com/ccd_products_keypad.htm. Select the link for the non-MWII version, download this package and unzip it.
3. Double-click on MacroRecorderSetup.exe to launch the installation program.
4. Click **Next** to the welcome page to continue the installation.
5. Read the Software License Agreement, and if you agree to the terms, click **Yes**.
6. Click **Next** to accept the default installation folder.
7. Click **Next** to accept the default program group folder.
8. On the next panel, leave the checkbox checked if you would like to have the Macro Works icons placed on your desktop. This is only necessary if you plan to reprogram the device frequently. Click **Next** to continue.
9. Wait for the installation to complete. (Progress may sit at 0% for a few seconds before beginning.)
10. Restart your PC if requested to do so.
11. You can now launch Macro Recorder from your desktop (if you specified that a program icon be placed on your desktop) or from the **Start Menu** (under the "P.I. Engineering" program group). Once started, click on the **Help** menu for instructions on using Macro Recorder to modify the programming of the keypad.

Available keystroke functions

You can program any of the keystroke sequences in the following table into the CADAM Drafting Key Pad. Keystrokes separated by a plus sign (“+”) are to be pressed at the same time. For example, “Cntl+Shift+A” means that the Cntl, Shift and “A” keys are all pressed simultaneously. Keystrokes separated by a comma are separate keystrokes. For example, “Alt-F,A” means first press the Alt and “F” keys together, release them, then press the “A” key.

| Function | Key Sequence |
|-----------------------|---------------------|
| FK Analysis | Cntl+Shift+A |
| FK CADEX | Cntl+Shift+K |
| FK Circle | Cntl+Shift+C |
| FK Corner | Cntl+Shift+E |
| FK Detail | Cntl+Shift+J |
| FK Dimension | Cntl+Shift+I |
| FK Draft | Cntl+Shift+F |
| FK Group | Cntl+Shift+G |
| FK IUE | Cntl+Shift+U |
| FK Line | Cntl+Shift+L |
| FK Note | Cntl+Shift+N |
| FK Offset | Cntl+Shift+O |
| FK Origin | Cntl+Shift+X |
| FK Overlay | Cntl+Shift+Y |
| FK Point | Cntl+Shift+P |
| FK Raster | Cntl+Shift+H |
| FK Relimit | Cntl+Shift+R |
| FK Show | Cntl+Shift+S |
| FK Spline | Cntl+Shift+B |
| FK Symbol | Cntl+Shift+M |
| FK Type | Cntl+Shift+Q |
| FK VDS | Cntl+Shift+Z |
| FK View | Cntl+Shift+V |
| FK Window | Cntl+Shift+W |
| Yes/No | F2 |
| New | Cntl+N |
| Open | Cntl+O |
| Save | Cntl+S |
| Save As | Alt+F, A |
| Select | Cntl+Shift+1 |
| Select All | Cntl+Shift+3 |
| Select Window | Cntl+Shift+2 |
| Select Special | Cntl+Shift+4 |
| Cut (CCD clipboard) | Cntl+Shift+5 |
| Copy (CCD clipboard) | Cntl+Shift+6 |
| Paste (CCD clipboard) | Cntl+Shift+7 |
| Paste Special | Cntl+Shift+8 |
| Deselect | Cntl+Shift+9 |
| Local | Cntl+L |
| Remote | Cntl+R |
| Plot | Cntl+P |
| Plot Data | Alt+F, D |
| Plot Setup | Alt+F, U |
| Plot Current | Alt+F, C |
| Plot Status | Alt+F, T |
| Help | F1 |
| Refresh | F3 |
| Redraw | F4 |
| ECS | F12 |

If a function is not listed here, but is available via keystrokes from the standard keyboard, it can still be programmed into the keypad by keying the appropriate keystrokes.

FCC Declaration of Conformity

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instruction manual may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio TV technician for help.

Any changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

Limited Warranty

For all CADAM Drafting Keypad products purchased and installed in the United States and Canada, Dassault Systemes of America warrants that the CADAM Drafting Keypad product will be free from defects in materials and workmanship under normal use and service, and will meet the specifications presented by Dassault Systemes of America at the time of original purchase, for one year as evidenced by a copy of the purchase receipt. Under this warranty, Dassault Systemes of America will, at its sole option, repair or replace any CADAM Drafting Keypad which is defective, provided that you are responsible for (1) the cost of transportation of the product to Dassault Systemes of America, and (2) any loss or damage to the product resulting from such transportation.

Upon discovery of a defect in the product within the Warranty Period, you should notify Dassault Systemes of America via telephone or e-mail (see contact information below) to obtain an RMA (return authorization number) and instructions for shipping the product to Dassault Systemes of America. You should send the product, shipping charges prepaid, to the designated location, accompanied by the return authorization number, your name, address, and telephone number, proof of purchase, and a description of the defect. Dassault Systemes of America will pay for return of the repaired or replaced CADAM Drafting Keypad to the customer.

Dassault Systemes of America shall have no responsibility to repair or replace the CADAM Drafting Keypad if the failure has resulted from accident, abuse, mutilation, misuse, or repair/modification performed by any entity other than Dassault Systemes of America.

THIS WARRANTY IS EXCLUSIVE OF ALL OTHER WARRANTIES, WHETHER EXPRESSED, IMPLIED, OR STATUTORY. DASSAULT SYSTEMES OF AMERICA DOES NOT WARRANT THIS CADAM DRAFTING KEYPAD PRODUCT FOR ANY USE OTHER THAN IN CONJUNCTION WITH THE CADAM DRAFTING PRODUCT. DASSAULT SYSTEMES OF AMERICA AND ITS EMPLOYEES SHALL NOT BE HELD LIABLE FOR ANY CONSEQUENTIAL, INDIRECT, OR INCIDENTAL DAMAGES, EVEN IF ADVISED OF THEIR POSSIBILITY, ARISING OUT OF THE USE OR INABILITY TO USE THIS PRODUCT. SOME STATES DO NOT ALLOW FOR THE EXCLUSION OR LIMITATION OF CERTAIN LIABILITIES, SO THE

ABOVE LIMITATIONS MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER LEGAL RIGHTS, WHICH VARY FROM STATE TO STATE.

In the event that the above limitations are held unenforceable, Dassault Systemes of America's liability for any damages to you or to any party shall not exceed the purchase price you paid, regardless of the form of any claim.

This limited warranty is valid for and only applies to products purchased and used inside the United States (and its territories) and Canada.

This limited warranty is governed by the laws of the United States of America and the state of California.

Contact Information

If you have any questions, comments or suggestions regarding this product, please contact:

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Details on purchasing additional keypads can be found on www.cadam.com.