

ECER Technology

TiltCONTROL AND CONTROL-EMUL8R Quick Start Guide



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1 Introduction

Welcome to the TiltCONTROL and CONTROL-EMUL8R Quick Start Guide. The purpose of this guide will be to guide you through using the CONTROL-EMUL8R software for the first time, and getting started as quickly as possible.

The TiltCONTROL and CONTROL-EMUL8R Quick Start Guide will cover the following sections in more detail.

- Getting Started
- How to start emulating
- Managing Plugins
- Editing or creating a new Plugin
- Activating the program

2 Getting started

By now you should have received your TiltCONTROL. If not then you should get in contact with ECERTech.com and order one straight away. This guide is not much fun without one.

When you were sent the TiltCONTROL you would have also received an Activation Key that you will need in order to activate your version of the CONTROL-EMUL8R software. For more information about how to activate the program, please read the section at the end of this guide.

The first thing that you will need to do is download and install the latest version of the TiltCONTROL drivers and CONTROL-EMUL8R software. These can be downloaded from www.ECERTech.com from the following URL:

www.ECERTech.com/downloads.aspx

Once you have downloaded the latest version of the software, make sure that your PDA is connected to your PC and run the setup file from your PC. This will install the software on your PDA.

To test the operation of the TiltCONTROL follow the steps below:

- Select **Start->Programs->TiltCONTROL->TiltCONTROL Settings**
- This will launch the TiltCONTROL Settings program.
- The next step is to plug the TiltCONTROL into the base of the PDA.
- If the software has been installed correctly, then you should be able to move your PDA around and see the TiltCONTROL Readings change as it is tilted.

NOTE: If it is not working then make sure the **Disable TiltCONTROL** checkbox is not checked.

- The next step is to calibrate the TiltCONTROL for your PDA. The quickest way to do this is to choose the **Manual Calibration** method, by pressing the **Manual Calibration** button. The **Calibration Wizard** is a more detailed step by step process of calibrating the TiltCONTROL and is fairly self explanatory so it will not be covered in this guide. Please feel free to go through the calibration process using the Calibration Wizard.
- Once you have pressed the **Manual Calibrate** button, the **Calibrate TiltCONTROL** screen will be displayed.

- Place the PDA flat on a desk or other flat surface and press the **Zero G Calibrate** button. This will calibrate the TiltCONTROL for Zero Tilt conditions. You should see the Horizontal Tilt and the Vertical Tilt stay around 0 degrees when the PDA is flat on the desk, if it has been calibrated correctly.
- To calibrate the TiltCONTROL more accurately you can also choose to calibrate it by placing it in the four positions where it will receive maximum tilt. Note that this step is **not** necessary, and will only result in minor gains in accuracy.
 - To do this you will need to calibrate the TiltCONTROL in the four different positions as shown at the bottom of the **Calibrate TiltCONTROL** Screen.
 - To calibrate in each of the four orientations simply hold the device upright, in the same orientation as shown in each of the four pictures shown and press each picture. You should see one of the calibration constants change to indicate that the device is being calibrated. The default value for each of the constants is 12.5. If the values are not within ± 3 of 12.5 then something has been done incorrectly, and you should try repeating the process.
- Press OK once you have finished calibrating the TiltCONTROL.

TIP: The TiltCONTROL will run all of the time and allow other applications to use the TiltCONTROL as long as the **Disable TiltCONTROL** check box is not set, which is shown on the main screen of the TiltCONTROL settings.

The next step is to install a CONTROL-EMUL8R Plugin so that the **CONTROL-EMUL8R software** can be used with an application of your choice.

CONTROL-EMUL8R is a program that runs all of the time, in the background on your PDA and monitors what program is currently being used. If you have a CONTROL-EMUL8R Plugin installed for a specific program, such as a game for example, and that game is running then the CONTROL-EMUL8R will load that Plugin and allow you to use the TiltCONTROL to control the program.

A CONTROL-EMUL8R Plugin specifies how the TiltCONTROL will control the PDA, for a specific application. It will specify whether the TiltCONTROL will emulate the arrow keys or the stylus to control the application, and what sensitivity levels and thresholds will be used for these controls. There are numerous Plugins already available for download from www.ECERTEch.com. And if you have an application that you want supported, please send an email to support@ECERTEch.com, and we will look into creating a Plugin for your application. Alternatively you can create your own Plugin using the Plugin Creator, which is installed with the CONTROL-EMUL8R. With the Plugin Creator you can start with an existing Plugin and modify it, or start with a completely blank framework. For more information about creating your own Plugins, please refer to the full CONTROL-EMUL8R User Manual, available for download from www.ECERTEch.com.

When you first installed the CONTROL-EMUL8R you would have been asked if you would like to install the latest Plugins. If you selected YES, then the latest set of Plugins available from www.ECERTEch.com would have been installed on your PDA. If you selected NO then you will need to reinstall or go to www.ECERTEch.com and download and install one or more of the Plugins available.

- Once a Plugin has been installed, all that you need to do is start the application that the Plugin is setup for and insert the TiltCONTROL into your PDA. As soon as the program has been started the CONTROL-EMUL8R will detect the application is running and start controlling the PDA with the TiltCONTROL.

NOTE: You will still be able to control your PDA with normal controls as well.

- As a simple example, to test out the operation of the TiltCONTROL and the CONTROL-EMUL8R, try the Notes Plugin. The Notes Plugin can be downloaded from www.ECERTech.com, or it would have been installed on your PDA if you selected to install the latest Plugins at install time.
- The Notes Plugin will start emulating the stylus when a new note is opened in Notes.
- To test the Notes Plugin, simply start up Notes, open a new note and insert the TiltCONTROL into the PDA. You should be able to move the PDA around and see the lines appear as if you were using the stylus.
- If the PDA is not responding to the TiltCONTROL's movements then it may be because of one of the following:
 - Check that the CONTROL-EMUL8R is not disabled, by launching **EMUL8R Settings**, which can be done by selecting **Start->Programs->TiltCONTROL->EMUL8R Settings**, and making sure that the **Disable CONTROL-EMUL8R** checkbox is not selected.
 - Check that the Plugin has been installed correctly by launching **EMUL8R Settings**, pressing the **Manage Plugins** button and making sure that the installed Plugin is listed.
 - Check that the installed Plugin is not disabled, by finding the Plugin in the list of **Installed Plugins** and making sure that the Disabled flag is set to **F**.

TIP: It is recommended to have the TiltCONTROL disconnected if the CONTROL-EMUL8R is emulating the stylus, and you also want to use the stylus yourself, or else it will conflict with you trying to use the stylus to select items.

- Now that you have seen it working and are familiar with the operation, try another application with an Installed Plugin.

We recommend trying the Plugins for the applications

- Pocket Breakout (1 and 2)
- Gangsta Race
- Air Hockey 3D
- 3D Mini-Dogfight (Air Combat)
- Microsoft Reader
- Chopper Alley

As these applications work very well with the TiltCONTROL.

Once you have had some fun with these applications, try another or try creating your own Plugin using the Plugin Creator.

Below is a list of other things you might want to try:

- Try some other Plugins.
- Try creating your own Plugin for a different application.
- Have a look at the User Manual to get a more in depth idea of how the TiltCONTROL and CONTROL-EMUL8R work.
- Have a look at some video clips of the TiltCONTROL in action with some other applications at www.ECERTech.com.
- Try some applications that use the TiltCONTROL directly. Visit www.ECERTech.com to get a list of applications.

If you have any questions or suggestions please do not hesitate to get in contact with us at ECERTech.com.

3 How to start emulating

The CONTROL-EMUL8R will always be turned on if the CONTROL-EMUL8R is enabled. So if you have a Plugin installed for an application that you are targeting, and it is also enabled, then the CONTROL-EMUL8R will start emulating the controls using the TiltCONTROL once that application is started.

NOTE: While in demo mode you will only be able to emulate for *90 seconds* at a time. After the 90 second time limit the emulator will turn itself off.

4 Managing Plugins

The installed CONTROL-EMUL8R Plugins can be managed by launching the **EMUL8R Settings** program, which can be found in the **Programs\TiltCONTROL** Folder.

4.1 Disabling and enabling a Plugin

To disable a Plugin, launch **EMUL8R Settings** and press the **Manage Plugins** button. Select the Plugin from the list of Installed Plugins that you want disabled and press the **Disable Plugin** button.

4.2 Uninstalling a Plugin

To uninstall a Plugin, launch **EMUL8R Settings** and press the **Manage Plugins** button. Select the Plugin from the list of Installed Plugins that you want disabled and press the **Uninstall Plugin** button.

5 Editing or creating a new Plugin

To edit or create a new Plugin you will need to launch the **Plugin Creator** program, which can be found in the **Programs\TiltCONTROL** Folder.

To create a new Plugin press the **Create a New Plugin** button. You will be able to start with a blank Plugin or an existing installed Plugin.

To edit a Plugin press the **Edit a Plugin** button. You will be prompted to select one of the installed Plugins to edit.

For more information about creating your own Plugins, please refer to the full CONTROL-EMUL8R User Manual, available for download from www.ECERTEch.com.

6 Activating Program

When the CONTROL-EMUL8R software is first installed it will run in Demo mode. When operating in Demo mode you will only be able to turn the CONTROL-EMUL8R on for 90 seconds at a time, at which time it will turn off automatically.

To activate the CONTROL-EMUL8R software you will first need to purchase the software from ECER Technology, at which time you will be supplied with an Activation key that is derived from the email address that you supplied when you purchased the software. Once you have this Activation key you will need to launch either the **EMUL8R Settings** or the **Plugin Creator** applications, and select the **Activate Program** item from the **Help** menu. Once you have done this the Activate Program screen will be displayed as shown in Figure 6-1. Simply enter your email address and the activation key that you were provided with and press the Activate Now button. You will either be shown a successful activation message or given a reason why the activation was not successful. Once activated next time you start the CONTROL-EMUL8R software it will run in full mode.

Figure 6-1 Activate program



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