

# Touchscreen Driver Release Note

## Touchbase UPDD

If you have purchased a CTC PowerStation or Industrial PC that has a touchscreen and that runs under a Windows operating system, your touchscreen driver is the Touchbase Universal Pointing Device Driver (UPDD). This driver enables you to run multiple touchscreens from the same computer.

Depending upon which computer you have purchased, you will find a copy of this driver on the following distribution disks.

PowerStation/Industrial PC	Distribution Disk
P3, P4, or P5	UPDD Touchscreen Driver Disks [two-disk set] (KA-73132)
P9 or PC9	PC9 Drivers and Utilities CD (KA-73049)

If the driver in your computer is deleted or becomes corrupted, or if you need to reinstall the driver under a new operating system (e.g., Windows 2000), you can do so by following one of two procedures described in these instructions:

- Installing under Windows 95, 98, or NT
- Installing under Windows 2000.

Follow the procedure for your operating system.

## Installing the UPDD Under Windows 95, 98, or NT

**To reinstall the UPDD under Windows 95, 98, or NT, complete the following steps:**

1. Insert the distribution disk containing the UPDD into your system's floppy disk drive or CD-ROM drive.

**Note** If you are using the UPDD Touchscreen Driver floppy disk set, insert Disk 1. You will be told when to insert Disk 2.

2. On the Windows taskbar, click **Start** and then **Run**.

3. Next to the word “Open,” type **[Drive]:\Drivers\Touch\UPDD\Setup.exe**, and then click **OK**.

**Note** For **[Drive]**, type the letter of the drive where you have inserted the distribution disk or CD.

The driver will be installed. When installation is complete, you will be prompted to restart your computer.

4. Restart the computer.

**Important** You must restart for your installation to take effect.

5. If necessary, recalibrate the touchscreen.

For instructions, see the section on touchscreen recalibration in your PowerStation or Industrial PC User Guide.

## Installing the UPDD Under Windows 2000

To install the UPDD under Windows 2000, you will install the driver and then configure the driver settings.

- If you are installing to a PowerStation P3, P4, or P5, go directly to *Installing the Driver* on page 5.
- If you are installing to a P9 or PC9, you must first identify the driver COM port. Continue with *Identifying the Driver COM Port*, below; then go on to *Installing the Driver*.

## Identifying the Driver COM Port

How you identify the driver COM port will depend upon whether you are replacing an existing installation of the driver (e.g., a corrupted driver) or installing the driver on a computer for the first time (e.g., under a new operating system).

- If you are reinstalling the driver to replace an existing installation, you just have to determine the present UPDD COM port, using the Windows Device Manager.
- If you are installing the driver for the first time, you must install a new driver COM port, using the Add New Hardware Wizard.

Both procedures are described in the following sections.

## Reinstallation

**To determine the present driver COM port, complete the following steps:**

1. On the Windows taskbar, select **Start** and then **Settings**.
2. On the Settings submenu select **Control Panel**.  
Control Panel will appear.
3. In Control Panel, open the **System** directory.  
The System Properties dialog box will appear.
4. In the System properties dialog box, select the **Hardware** tab.
5. On the Hardware tab, select the **Device Manager** button.  
The Device Manager menu will appear.
6. On the Device Manager menu, open the **Ports** directory.
7. Double-click on a port.

**Note** The most likely choice is the last port in the list.

The port's Properties sheet will appear.

8. Select the **Resources** tab, and look in the **Resource settings** group box to determine if the port uses I/O address **338** and IRQ **7**.  
This will be the UPDD COM port.
9. Check each port until you find the UPDD COM port; then make a note of this port to use when you install the touchscreen driver.

## First installation

**To install a new driver COM port, complete the following steps:**

1. On the Windows taskbar, click **Start** and then **Settings**.
2. In the Settings submenu, select **Control Panel**.  
Control Panel will appear.
3. In Control Panel, select **Add New Hardware**.  
The Add New Hardware Wizard will appear.
4. In the Add New Hardware Wizard, select **Add a Device**, and then click **Next**.

5. In the next dialog box, select **Add a New Device**, and then click **Next**.
6. In the next dialog box, select **No, select from a list**, and then click **Next**.
7. In the next dialog box, select **Port (COM&LPT)**, and then click **Next**.
8. In the next dialog box:
  - a. Select **Standard Port Types** in the Manufacturers group box.
  - b. Select **Communication Port** in the Models group box.
  - c. Click **Next**.
9. When you are prompted to enter your hardware settings, click **OK**.  
The Resources tab will appear.
10. In the Settings Based On list box, scroll down until question marks (?) appear next to **Interrupt Request** and **Input/Output Address** in the Resource Settings group box.
11. In the Resource Settings group box, select **Interrupt Request**, and then click the **Change Settings** button.  
The Edit Interrupt Request dialog box will appear.
12. In the Value list box, select the number **7** (hex), and then click **OK**.  
You will return to the Resources tab.
13. In the Resource Settings group box, select **I/O Address**, and then click the **Change Settings** button.  
The Edit I/O Address dialog box will appear.
14. In the Value list box, select the address **338** (hex), and then click **OK**.  
You will return to the Resources tab.
15. On the Resources tab, click **OK**.
16. In the next dialog box, click **Next**.
17. In the next dialog box, click **Finish**.  
Windows 2000 will automatically select the next available COM port number for the touchscreen driver and will assign that port I/O address 338 and IRQ 7.

18. After your COM port is set, restart your system.

**Important** To install the UPDD driver, you must know the driver COM port number. If you are not sure what this number is, complete steps 1-9 for determining the present driver COM port, beginning at the top of page 3.

## Installing the Driver

Starting the UPDD installation process is different for the PowerStation P3, P4, and P5 than it is for the P9 and the PC9 Industrial PC. This is because of the different ways in which you must use the UPDD distribution disks (floppy disks or CD) for these systems. Follow the procedure below that is appropriate to your system.

### Starting installation in the P3, P4, and P5

**To start installation in the P3, P4, and P5, complete the following steps:**

1. Create a **UPDD** directory on your computer's hard drive.
2. Insert Disk 1 of the UPDD Touchscreen Driver disk set into your computer's floppy disk drive.
3. Open the root directory of Disk 1, and copy the **Setup.exe** file from Disk 1 to the UPDD directory on your hard drive.
4. Remove Disk 1 from the floppy disk drive, and insert Disk 2 of the UPDD Touchscreen Driver disk set.
5. Open the root directory of Disk 2, and copy the **Win32.cab** file from Disk 2 to the UPDD directory on your hard drive.
6. In the UPDD directory on your hard drive, double-click on the **Setup.exe** file.  
The UPDD Installation Wizard Welcome screen will appear.
7. Go to *Completing installation in all systems* on page 6.

### Starting installation in the P9 and PC9

**To start installation in the P9 and PC9, complete the following steps:**

1. Insert the PC9 Drivers and Utilities CD into your computer's CD-ROM drive.

2. Open the root directory of the CD, and copy the **Drivers\Touch** directory to your desktop.
3. Open the **Touch** directory on your desktop.
4. Delete the **UPDDClone.dat** file.
5. In the Touch directory, double-click on the **Setup.exe** file.  
The UPDD Installation Wizard Welcome screen will appear.
6. Continue with *Completing installation in all systems*, below.

### Completing installation in all systems

**To complete the UPDD installation in all systems, complete the following steps:**

1. At the bottom of the UPDD Installation Wizard Welcome screen, click **Next**.  
In the next three dialog boxes, you will accept the License Agreement, and select the folder and destination directory for the driver. You can accept the default settings for the folder and destination directory. Click **Next** after you have made each selection.
2. In the next dialog box, select **Install System Tray Icons**, and then click **Next**.
3. In the next dialog box, select **Specific Devices1**, and then click **Next**.  
The Desktop segment dialog box will appear.
4. Click **Next** to accept the default settings for **Device** and **Whole Desktop**.  
The Select Controller dialog box will appear.
5. Select the **DynaPro SC3 Serial Device** for Device1, and then click **Next**.  
The Port dialog box will appear.

6. In the Port list box, select the UPDD driver COM port, and then click **Next**.

**Important** In the P3, P4, and P5, the UPDD COM port will be **COM 3**. In the P9 and PC9, it will be the COM port that you identified or installed under *Identifying the Driver COM Port* earlier in these instructions.

The Ready to Install dialog box will appear.

7. Click **Next**.

The UPDD driver will be installed. When installation is complete, the Complete dialog box will appear.

8. Click **Finish**.

You will be prompted to restart your computer.

9. Restart the computer.

**Important** You must restart for your installation to take effect.

## Configuring the Driver Settings

**To configure the touchscreen driver settings, complete the following steps:**

1. On the Windows taskbar, select **Start** and then **Programs**.
2. In the Programs submenu, select **UPDD** and then **Settings**.  
The Pointer Device Properties dialog box will appear.
3. Select the **Settings** tab.
4. On the Settings tab, change the **Lift off time** to a value of **6**.
5. Select the **Advanced** tab.  
On the Advanced tab, clear the **Swap X/Y** check box.
6. Select the **Calibration** tab.
7. In the Start In At group box, select **0%**.
8. In the Calibration group box, increase the **Calibration points** to **5**.
9. Click on the **Apply** button at the bottom of the tab, and then click on the **Calibrate** button.

A blank screen will appear with an arrow in one corner.

10. Calibrate the touchscreen.

For instructions, see the section on touchscreen recalibration in your PowerStation or Industrial PC User Guide.

When you finish calibrating the touchscreen, you will return to the Pointer Device Properties dialog box.

11. Click **OK**.

Your UPDD settings are complete.

**Important** Once the UPDD is installed, you can create a UPDD “clone” file that you can copy to your Touch directory and use if you need to reinstall the driver under Windows 2000. The clone file greatly simplifies the installation procedure. See the UPDD online Help for instructions on how to create and use this clone file.