

DMD Discovery™ 1100 Quick Start Guide



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Preface

Read This First

The Discovery 1100 Digital Controller in combination with the Discovery 1100 Software give developers the ability to prototype their ideas and build working models in which to base final products on using Texas Instruments DMD technology.

The package provides the following:

- Discovery 1100 Digital Controller
- Discovery 1100 Software
- Example scripts
- Manuals and development documentation

The Quick Start Guide has been designed to help get the Discovery 1100 up and running as quickly as possible. It is highly advisable that the Quick Start Package not be relied upon as the only information to base usage of the Discovery 1100. Please read all documentation in the kit. With that said, it is understood that users want to know that their Discovery 1100 is working and observe the unit actually running, as quickly as possible. This document was created for just that purpose.

By following the instructions in this document, appropriate cables will be connected between a computer and the Discovery 1100 Controller. The Discovery 1100 Controller software will be installed on the computer. USB drivers will be loaded. Discovery 1100 Controller scripts will be loaded. The user will observe that the Discovery 1100 Controller hardware and software are correctly setup and responding.

The latest documentation and updates may be obtained by the distributor from whom you purchased the Discovery 1100 Starter Kit.

System Requirements

- 233MHz or higher Pentium processor or equivalent **
- 30MB of free hard disk space
- 128MB of RAM
- SVGA (800 x 600) display minimum (1024x768 recommended)
- Local CD-ROM drive
- USB 2.0 Port

** Performance will be relative to CPU speed and USB speed

DMD Discovery Starter Kits support the Discovery 1100 software on the following operating systems:

- Windows 2000
- Windows XP

NOTE: To install the Discovery 1100 Software you may need Administrator rights on your computer. See your Systems Administrator for assistance.

Windows 95, 98 and Windows NT are NOT presently supported.

Precautions Before Getting Started

Ensure that you have a clean non-conductive work area. The Discovery 1100 Controller's electronics are exposed and are very sensitive to static discharge and rough handling. You should always wear an anti-static discharge device, such as a wrist strap or other properly grounded device, while working with the Discovery 1100 Controller.

Getting Started

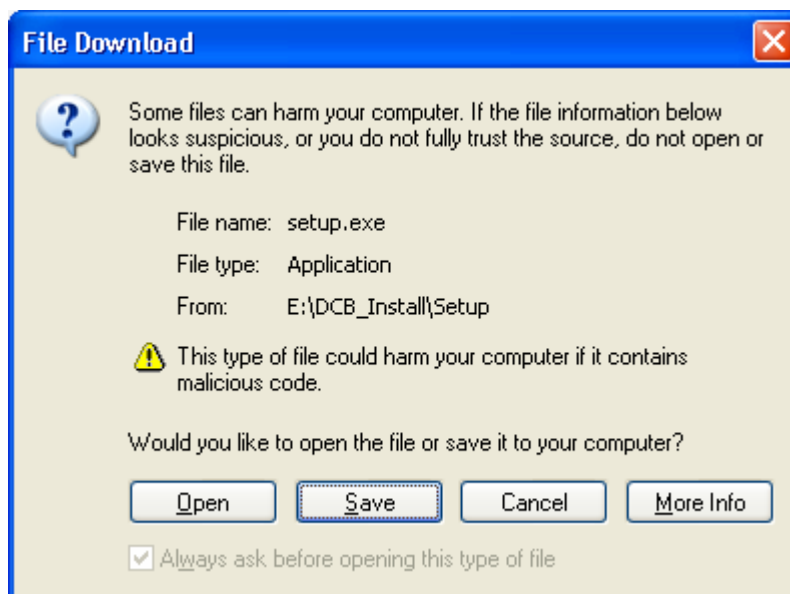
Step 1: Place the Product Support CD into your computer's CDROM.

Step 2: If your computer's Windows has auto start active, the Product Support CD will auto start for you and you will be presented with a start up screen. If auto start is not active, use your computer's folder browser and navigate to your CDROM. Double-click on the startup.exe program to display the startup screen.

Step 3: From the menu on the left select, **Software Installation**.

Step 4: Read all the information on the page that is displayed. After you have read all of the information, single-click on the **Discovery 1100 Software Installation**.

Step 5: You will be given the option to **Open**, **Save**, **Cancel**, or display **More Info**. Select **Open**.



Step 6: You will be greeted by the Discovery 1100 Controller Software Installation wizard.

Step 7: Follow the InstallShield Wizard instructions. It is highly recommended that you use the default settings for the initial installation. Click **Next** to begin the InstallShield Wizard.



Windows 2000 users if Error 1931 is encountered click OK and proceed, this is not fatal.

Step 8: Place your Discovery 1100 Controller on a non-conductive clean surface.

Step 9: Plug the power supply and USB connectors into the Discovery 1100 Controller board.

- **Your power supply should not be plugged into an ac outlet at this time.**

Step 10: Plug the USB cable into your computers USB connector.

Step 11: Plug the power supply into an AC outlet (power strip or wall socket).

Step 12: Once the DMD Discovery Controller runs through its power up routine, you will be notified by Windows 2000 or XP that a new USB device was found. This may take several minutes. NOTE: Windows 2000 and XP have slightly different device driver install routines so some of what is shown here may not exactly match your installation.



Step 13: Click on the **Next** button. On the next screen, select the option to allow Windows to search or install the device driver automatically.



Step 14: In Windows 2000, you will be presented with a Locate Driver Files window. Select **Specify a location** and click the **Next** button. Proceed to Step 16.

Step 15: In Windows XP, select **Install from a list or a specific location** and click the **Next** button.

Step 16: In the window that follows, click on the **Browse** button and navigate to the Discovery 1100's Driver folder on the hard drive (the default location is C:\Program Files\DMD\Discovery1100\Drivers).

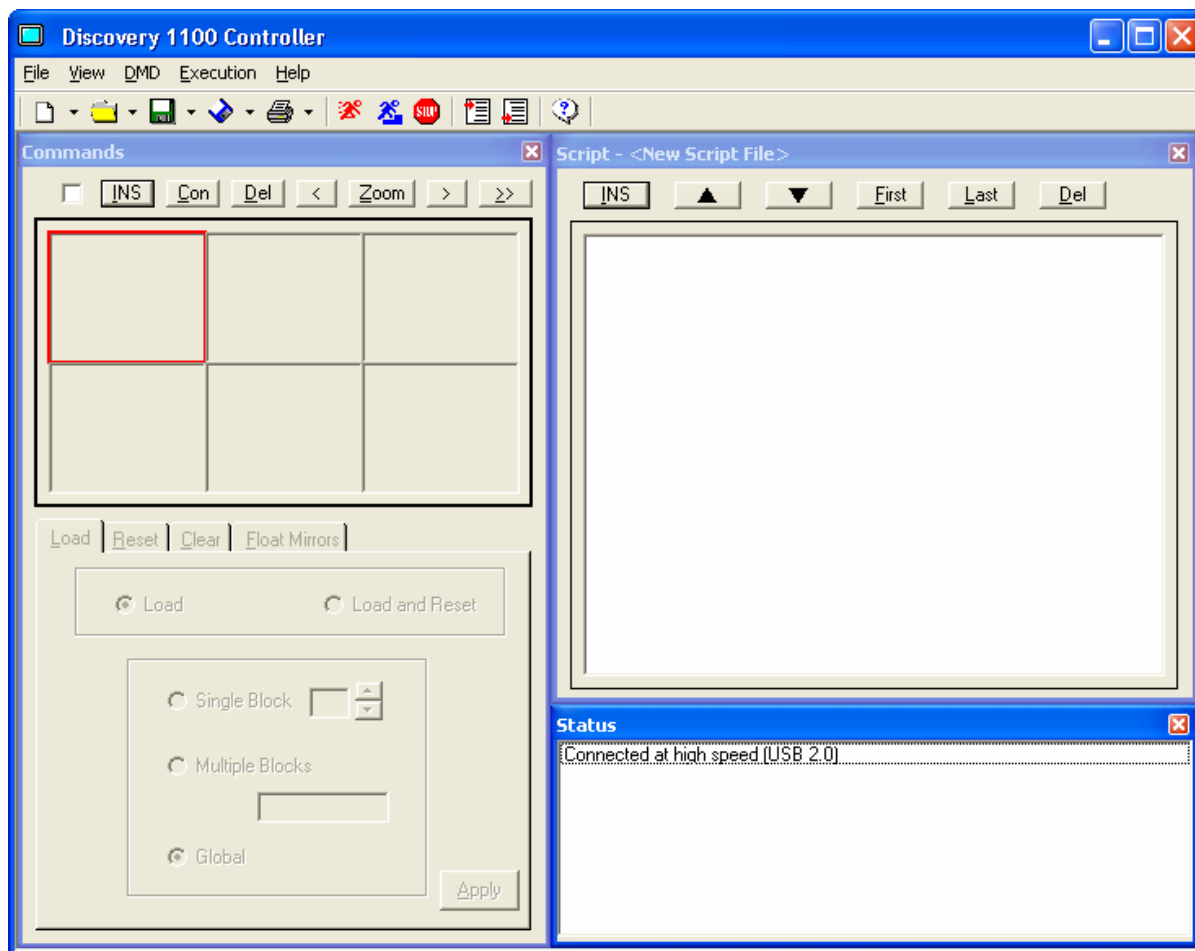
Step 17: In the Driver folder, open the DDC1100.inf file.

Step 18: The Wizard will notify you when it has found the corresponding driver. Once this is done, click **Next** and the Wizard will finish the driver installation. In Windows XP you may be presented with a warning from Microsoft that the software you're installing has not passed Windows Logo testing. Select the Continue Anyway option and Finish option when presented.

Step 19: Your Discovery 1100 Controller and required software are now loaded.

Starting Up the Discovery 1100 Controller Software

Step 1: From start menu select Program Files>DMD>DMD Discovery 1100 to start the Discovery 1100 Controller program. After the initial introduction screen, you will be presented with the following GUI screen.



Step 2: From the File pull down menu, select Open> Script.

Step 3: If you are prompted to save the current script, respond by pressing the **No** button.

Step 4: Navigate to the Discovery 1100's script folder (default is C:\Program Files\DMD\Discovery 1100 \Discovery Scripts) and select any of the scripts listed. A popular script is TheWorks.txt. TheWorks.txt displays all the bit maps included with the Discovery 1100 Controller Kit.

Step 5: After selecting a script, press the F5 key or mouse click on the little red running man icon to start running the script.

Watch the DMD device. The DMD mirrors should change, displaying images. If you are viewing an image, then you've verified that your Discovery 1100 Controller is functioning properly. Select other scripts to see different bit map images displayed.

If you do not see images displayed on the DMD device, check through this document to ensure that you followed all the steps correctly.

If after verifying that you have followed all the steps in the document correctly and you still have a problem, you should contact your distributor for assistance.