# Vision M1 Advanced
## USB Controlled XYZ Stage

For more information visit www.dunwell.com

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## M1 Driver Installation

**Run the Vision M1 Setup**

1. Use the included USB drive and run the VisionM1_Setup.exe file to perform the installation. Software can be downloaded from www.dunwell.com/downloads - Running this software installs all of the necessary drivers to run the Vision M1.

2. There will be an option to install a shortcut for the M1 software on your desktop, please see the description of the available software on the next page.

## M1 Software: Vision S Shuttle vs Vision M1 Advanced

**M1 vs S1: 2 Different Software Versions**

1. The *Vision S Shuttle* program is designed to use alongside DinoCapture 2.0 or other third party software. This is a lightweight program that allows for mouse or keyboard control of positioning and it can also perform depth measurements.

2. The *Vision M1 Advanced* program is designed to use the M1 motorized stage independently with an integrated live view window. This software allows the user to create recipes with a set of custom user defined coordinates. The M1 can automatically travel to each coordinate and capture an image.

**Save the program somewhere accessible.**

1. During installing the "VisionM1_Setup.exe" will offer to create a shortcut

2. From the included USB drive move "Vision S.exe" to a safe location on your hard drive. If that safe location is not convenient to access, feel free to:
   a. Create a shortcut on your desktop
   b. Pin it to your Start menu or
   c. Pin it to your taskbar

## Using the M1

**Run the "Vision M1.exe" or "Vision S1.exe":**

1. Make sure the Vision M1 is connected via USB to the computer, and plugged into an outlet
2. Secure the Dino-Lite in the attachment for the M1 (may require feeding the USB cable through the holster)
3. Connect the Dino-Lite to the computer via USB
4. Select the appropriate COM port from the dropdown
5. Click on "Connect" and computer will connect to the M1
6. The program should be ready to use

Additional Tips:

- For increased working distance, place the included rubber band onto the lower portion of the Dino-Lite. Use the rubber band for snug fitment within the holster.
- Placement kit included for fixed sample positioning



## Troubleshooting if the M1 Fails to Connect

1. **Check if the COM can be changed in the *Connection* section**
   a. Try to change the COM port from the drop down menu if there are other COM available

2. **Confirm that it connected on an available COM port:**
   a. Open Device Manager in Control Panel or from Start Menu search for "Device Manager"
   b. Right click the "USB Serial Port" and select properties.
   c. Please note that the COM port must be between 2 through 9.
   d. From Properties > Ports > USB Serial Port > Properties > Port Settings > Advanced > Change COM Port number to any available between 2 - 9.

3. **If the M1 does not connect on any of the available COM ports try the following:**
   a. Check if the drivers were properly installed and configured:
      i. Open the Device manager in Control Panel or from the Start Menu search for "Device Manager"
      ii. Check the section for "Ports (COM & LPT)"
      iii. If there is a yellow exclamation point it is not configured properly.
      iv. To correct this, right click on the USB Serial Port with the issue then
      v. Select update driver
      vi. Select browse my computer for driver software
      vii. Navigate to the folder with the "CDM 2.10.00 WHQL Certified" or similar and proceed until finished.
   b. Try a different USB port on your device.
   c. In some cases performing "step a" a second time may resolve the issue.

4. **If these steps do not solve the issue or if you have additional questions, please contact:**
   a. support@dunwell.com
   b. Call toll free: 888-668-2442