



DIY Magic Mirror

Software Installation v3.3

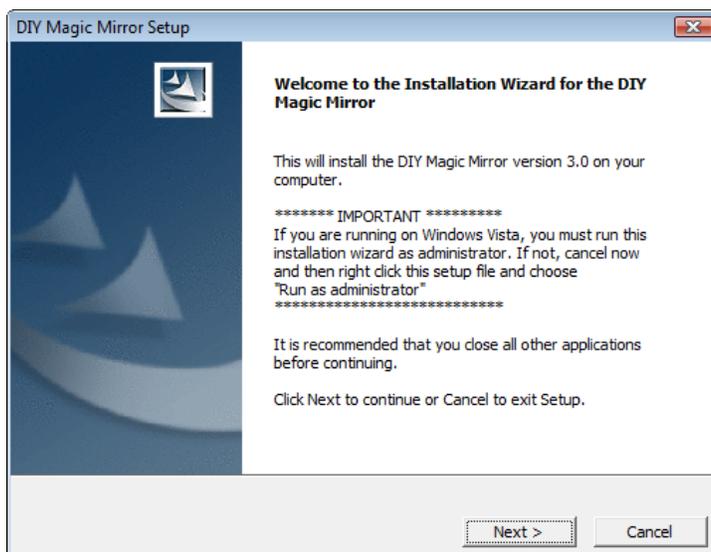
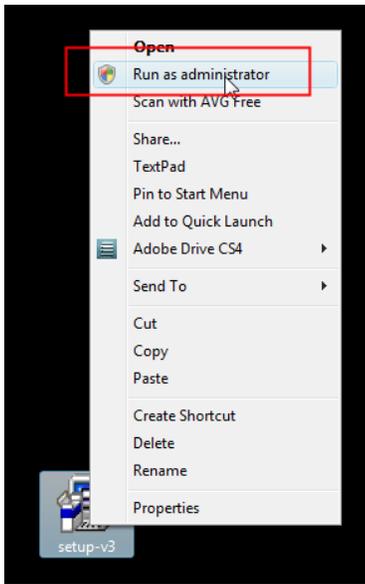
PC (Windows XP, Windows Vista, Windows 7)

PC DIY Magic Mirror Software Installation Instructions (Windows XP, Vista, and Windows 7)

1 Download and install the DIY Magic Mirror Software from <http://diymagicmirror.com/install-pc.html>. The installation program will install the Magic Mirror software and all necessary components under “C:\Program Files\DIY Magic Mirror” or “C:\Program Files\DIY Magic Mirror (x86)” if your OS is 64-bit. Do not change this installation directory.

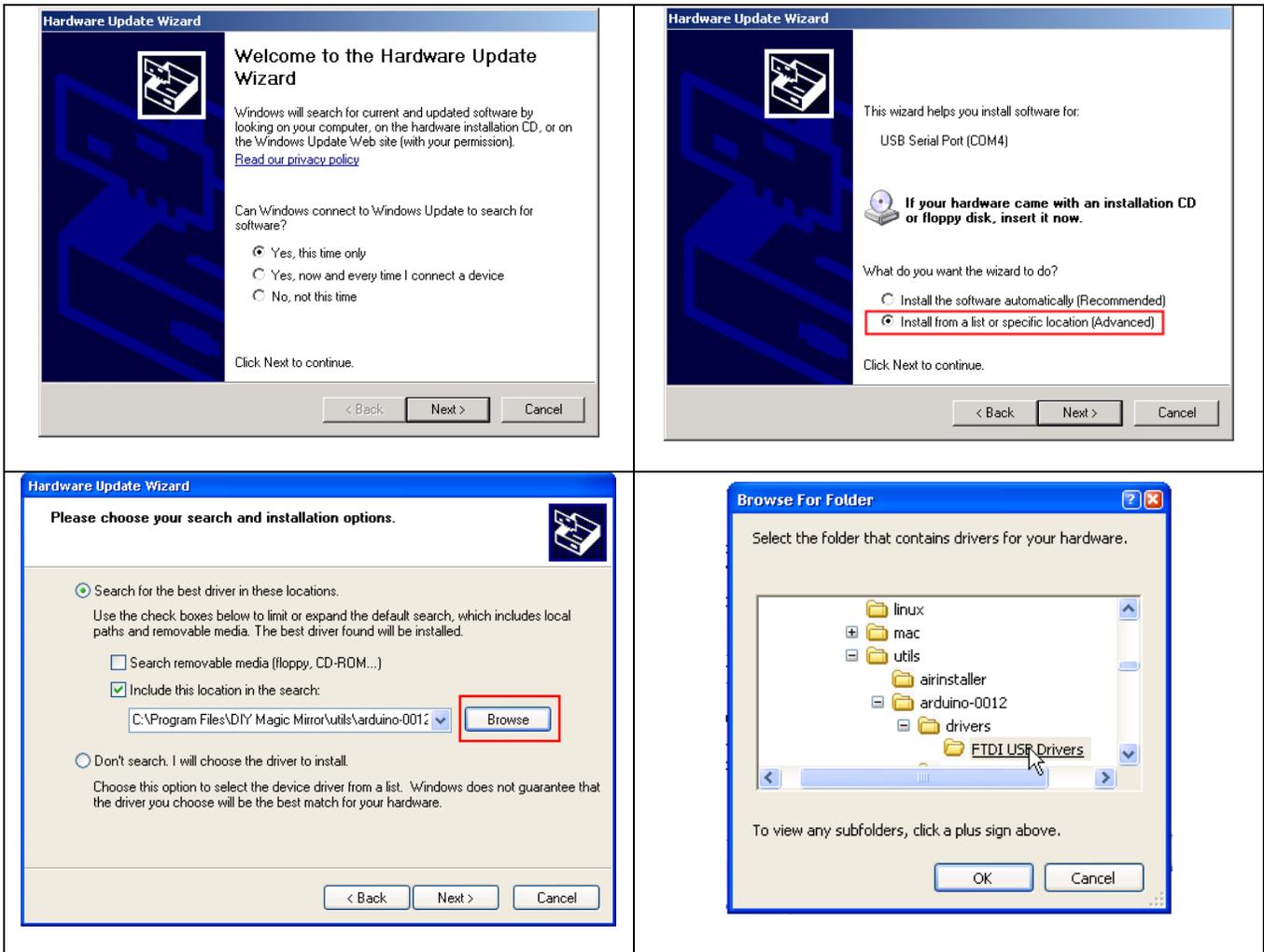
Its recommended to run the Magic Mirror at a resolution of 1024 x 768.

IMPORTANT: If your OS is Windows Vista or Windows 7, you must run the installation program as administrator. Right click on the setup file and then choose “Run as administrator”



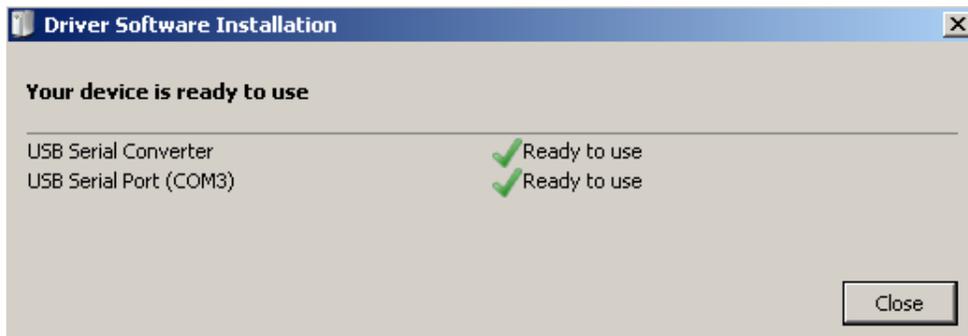
2 Plug your Magic Mirror Sensor Hub into your PC with a USB cable.

3 Install the USB serial port driver. Follow these prompts and use the path “C:\Program Files\DIY Magic Mirror\utils\arduino-0017\drivers\FTDI USB Drivers” or “C:\Program Files\DIY Magic Mirror (x86)\utils\arduino-0017\drivers\FTDI USB Drivers” for the drivers.

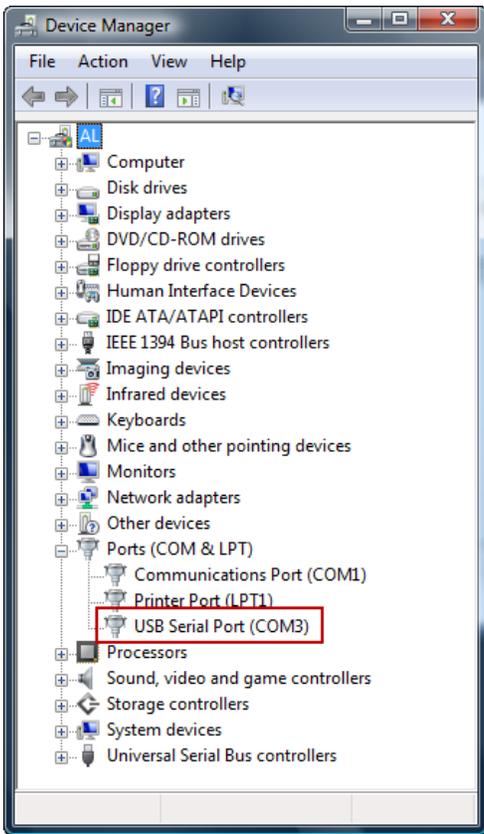


After installing the driver, you may be prompted to run through the same screens a second time.

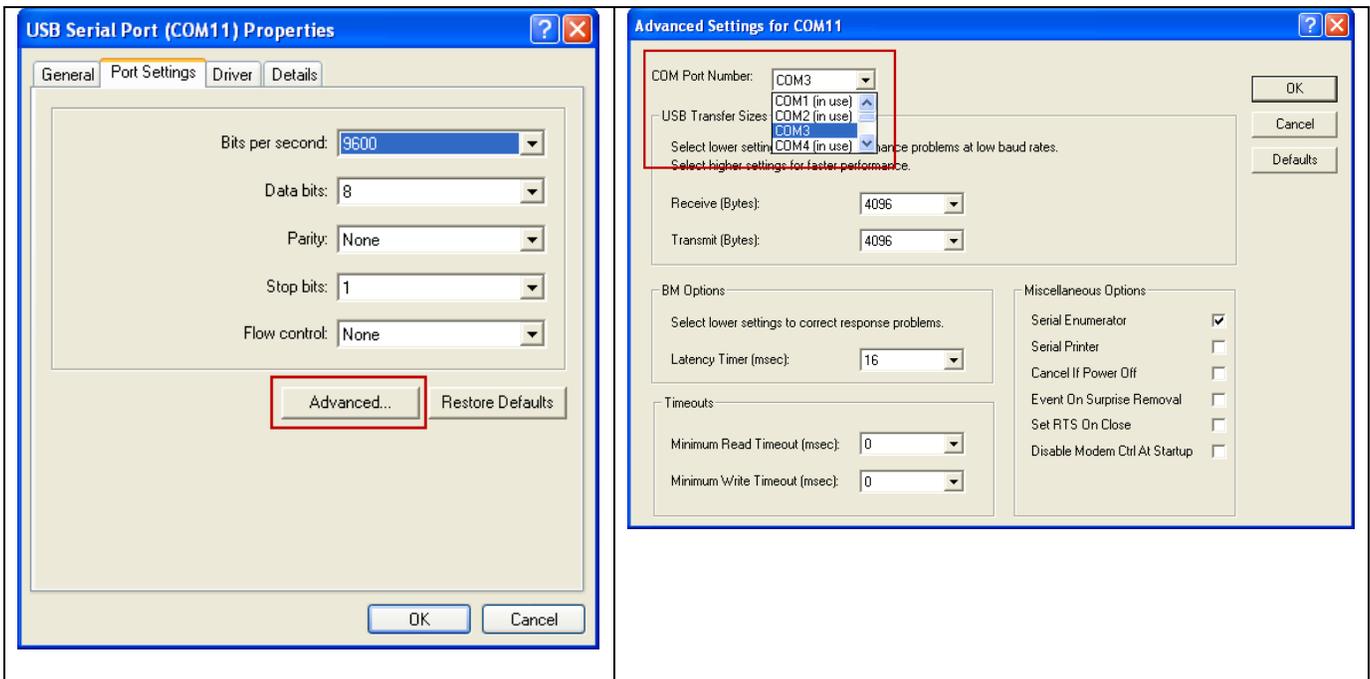
The driver should automatically install on Windows 7.



4 Once installed, the Magic Mirror Sensor Hub or Arduino will appear in device manager as a **USB Serial Port**. In this example, the Arduino is on COM3. Type “**devmgmt.msc**” from the run command to go directly to Device Manager. Make a note of the COM Port number as you’ll need this later.

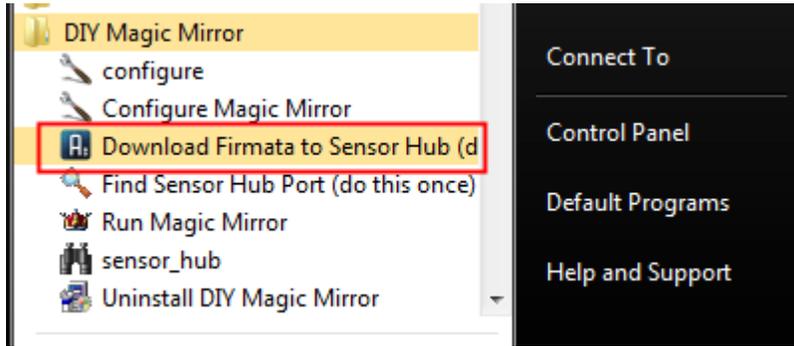


Note: The Magic Mirror will not function if the assigned USB Serial Port is COM10 or higher. If this happens, then go into COM Port advanced settings and change to a lower number.

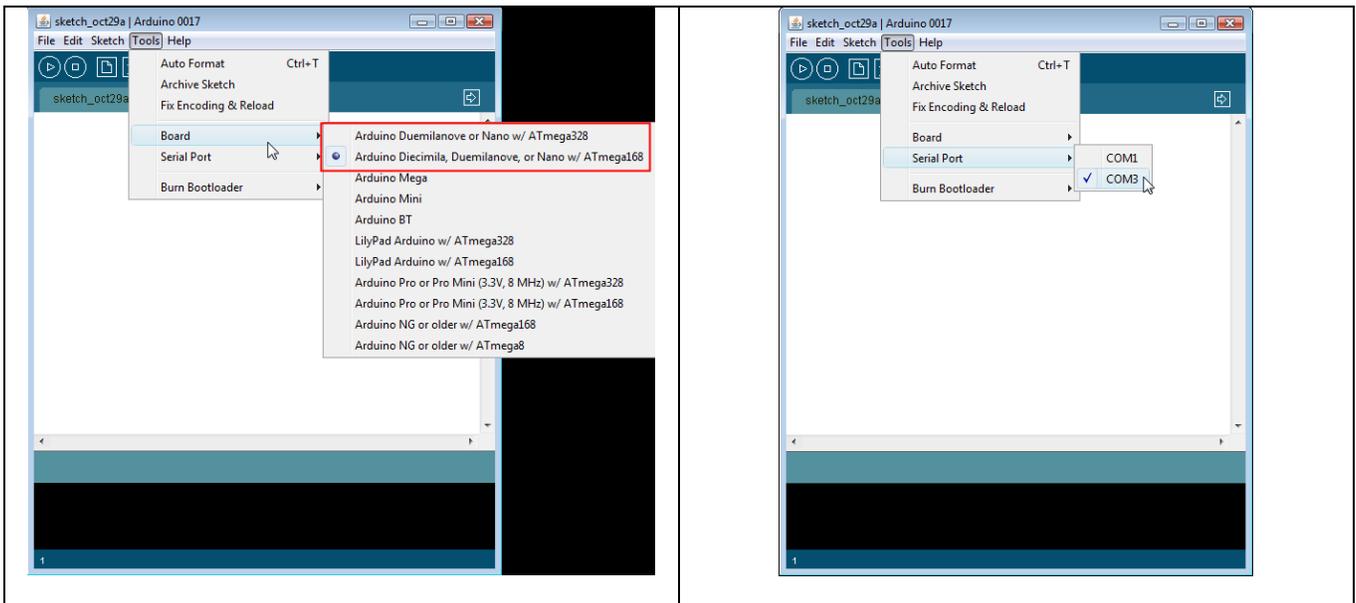


5 Skip this step if you purchased the Magic Mirror Sensor Hub and go directly to Step 6. Once uploaded, the firmware (Firmata) will remain on your Sensor Hub permanently so you only need to do this once.

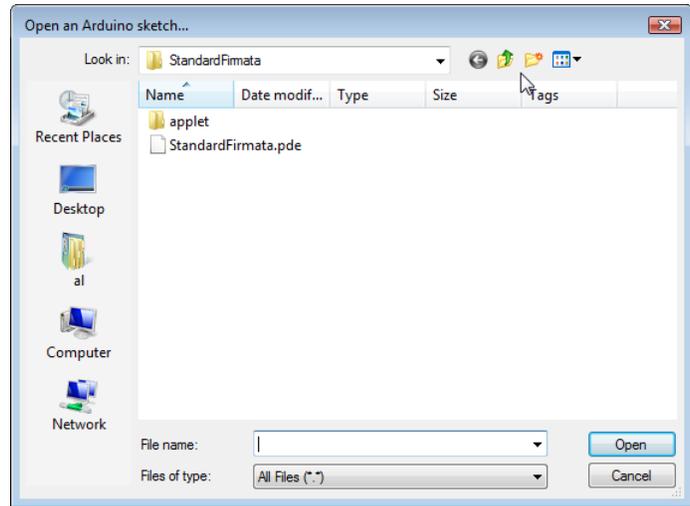
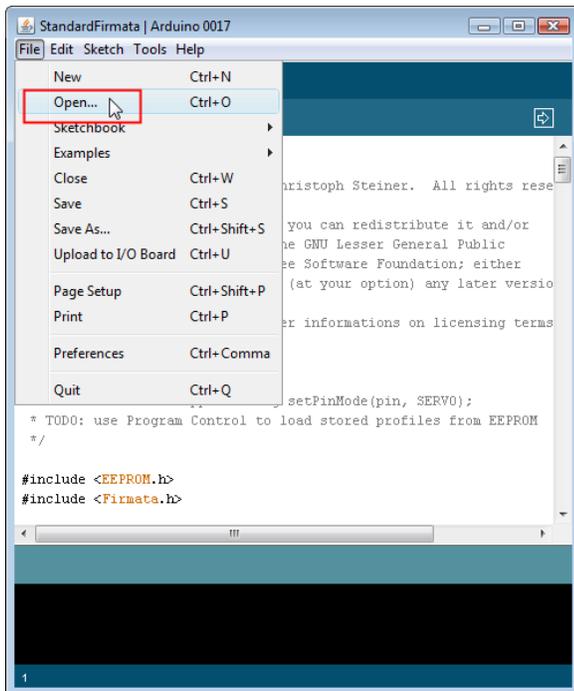
a. Launch “Download Firmata Firmware to Sensor Hub (do this once)”. **IMPORTANT: You must run as Administrator if your OS is Vista or Windows 7.**



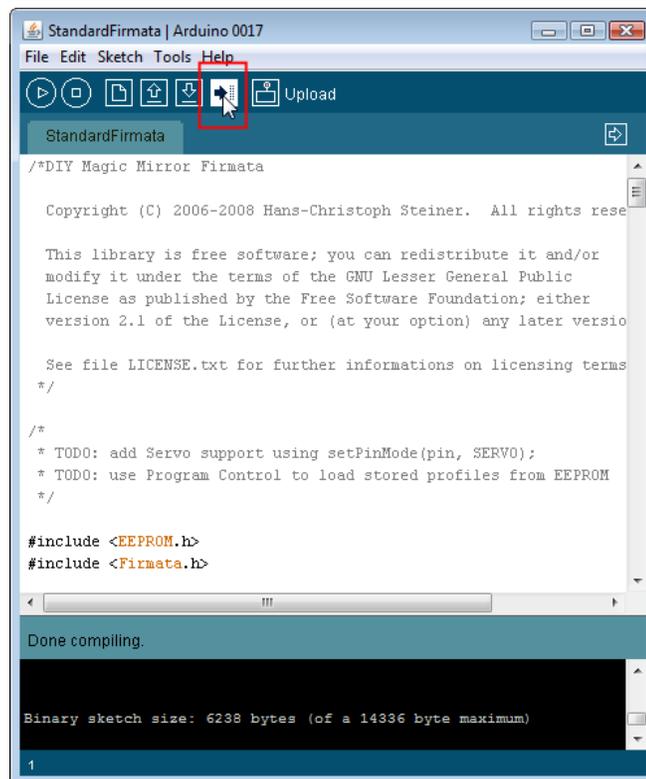
b. Select the BOARD, be sure to select the ATmega168 or the ATmega328 depending on your Arduino version. Select the COM Port.

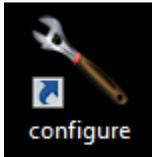


c. Open “C:\Program Files\DIY Magic Mirror\utils\arduino-0017\Firmata2\StandardFirmata\StandardFirmata.pde” **IMPORTANT: You must use this version of Firmata, the Firmata that comes with the Arduino IDE will not work with the Magic Mirror.**



d. Verify and then Upload to the Arduino. While uploading, you will see the TX and RX LEDs flash on the Arduino. “Done Uploading” will display at the bottom of the screen when finished. If it does not upload correctly, see <http://arduino.cc/en/Guide/Troubleshooting#toc2>. Close when finished.





6 Launch “configure”

Select the Magic Mirror Sensor Hub Port. If your Sensor Hub is on COM3, then choose 5333. If on COM4, then choose 5334 and so on.

DIY Magic Mirror Configuration Version 3.1

Enter Registration Code

Sensor Hub Version

Arduino Version

Magic Mirror Mode

Idle Videos ON OFF

Weather Zip Good Weather Threshold

Forecast Cutoff Unit of Temperature

Orientation Portrait (90) Portrait (270) Landsc (0) Landsc (180)

Video Resolution High-Res Low-Res (for older hw & if video is jerky)

Adjust Screen Positioning & Size

Enter Stock Symbol(s) Add

Clear Stocks

Good Stock Threshold Bad Stock Threshold

Picasa Slide Show Settings

Picasa/Google ID Refresh Album List

Picasa Albums

Selected Album

Slide Duration seconds

Adjust Slide Show Positioning & Size

Doorcam ON OFF

IP Camera URL or IP address (no http://) Port

IP Camera Make Adjust Doorcam Positioning

Video Stream Path

IP Camera Username IP Camera Password

Magic Mirror Sensor Hub

Check for Updates Online Manuals Help

Switch 1 - Door Switch ON OFF

Switch 2 - Weather Forecast ON OFF

Switch 3 - Stock Performance ON OFF

Switch 4 - Picasa Slide Show ON OFF

Switch 5 - X-10 ON/OFF ON OFF

Proximity Sensor ON OFF

Proximity 1 Lower Range Upper Time

Proximity 2 Lower Range Upper Time

Prox 2 Can Play Before Prox 1 ON OFF

Touch Sensor 1 - Weather ON OFF

Touch Sensor 2 - Stock ON OFF

Touch Sensor 3 - X-10 ON/OFF ON OFF

Character Select Potentiometer ON OFF

X-10 Lighting Control ON OFF

Lights House Code Lights Unit Code

ON/OFF House Code ON/OFF Unit Code

Magic Mirror Sensor Hub Port

Startup Delay (seconds)

Verbose/Debug Mode ON OFF

Stock Readout Text

Weather Readout Text

Weather Icon ON OFF

Sensor Hub to Arduino Pin Mapping Reference

Char Select Pot ON

Save Reset to Defaults

7 IMPORTANT: Only sensors that are wired up and connected should be set to **ON** which would be the < Character Select Potentiometer > input with the Magic Mirror Sensor Hub. All other switches/sensors that are not yet hooked up must be left **OFF** until they are hooked up or you'll overload your computer with false sensor readings and potentially crash the software. Click "Save" when finished.

DIY Magic Mirror Configuration Version 3.1

Enter Registration Code

Sensor Hub Version: Version 3.0

Arduino Version: ATmega328

Magic Mirror Mode: Princess

Idle Videos: ON OFF

Weather Zip: 95050 | Good Weather Threshold: 70

Forecast Cutoff: 11 | Unit of Temperature: Fahrenheit

Orientation: Portrait (90) Portrait (270) Landsc (0) Landsc (180)

Video Resolution: High-Res Low-Res (for older hw & if video is jerky)

Adjust Screen Positioning & Size

Enter Stock Symbol(s) Add

amat+sbox+aapl

Clear Stocks

Good Stock Threshold: 3 | Bad Stock Threshold: -1

Picasa Slide Show Settings

Picasa/Google ID: magicmirror2000 Refresh Album List

Picasa Albums: --- Select Album ---

Selected Album: DIY Magic Mirror

Slide Duration: 5 seconds

Adjust Slide Show Positioning & Size

Magic Mirror Sensor Hub

Check for Updates Online Manuals Help

Switch 1 - Door Switch ON OFF

Switch 2 - Weather Forecast ON OFF

Switch 3 - Stock Performance ON OFF

Switch 4 - Picasa Slide Show ON OFF

Switch 5 - X-10 ON/OFF ON OFF

Proximity Sensor ON OFF

Proximity 1 Lower Range: 40 Upper: 46 Time: 100

Proximity 2 Lower Range: 20 Upper: 26 Time: 100

Prox 2 Can Play Before Prox 1: ON OFF

Switch 1 OFF Touch Sensor 1 - Weather ON OFF

Switch 2 OFF Touch Sensor 2 - Stock ON OFF

Switch 3 OFF Touch Sensor 3 - X-10 ON/OFF ON OFF

Switch 4 OFF Character Select Potentiometer ON OFF

Switch 5 OFF X-10 Lighting Control ON OFF

Lights House Code: A Lights Unit Code: 2

ON/OFF House Code: A ON/OFF Unit Code: 4

Magic Mirror Sensor Hub Port: 5333

Startup Delay (seconds): 0

Verbose/Debug Mode: ON OFF

Stock Readout Text: ON OFF

Weather Readout Text: ON OFF

Weather Icon: ON OFF

Doorcam: ON OFF

IP Camera URL or IP address (no http://): thepoolcam.dyndns.tv Port: 80

IP Camera Make: Axis Adjust Doorcam Positioning

Video Stream Path: /axis-cgi/mjpg/video.cgi

IP Camera Username: IP Camera Password:

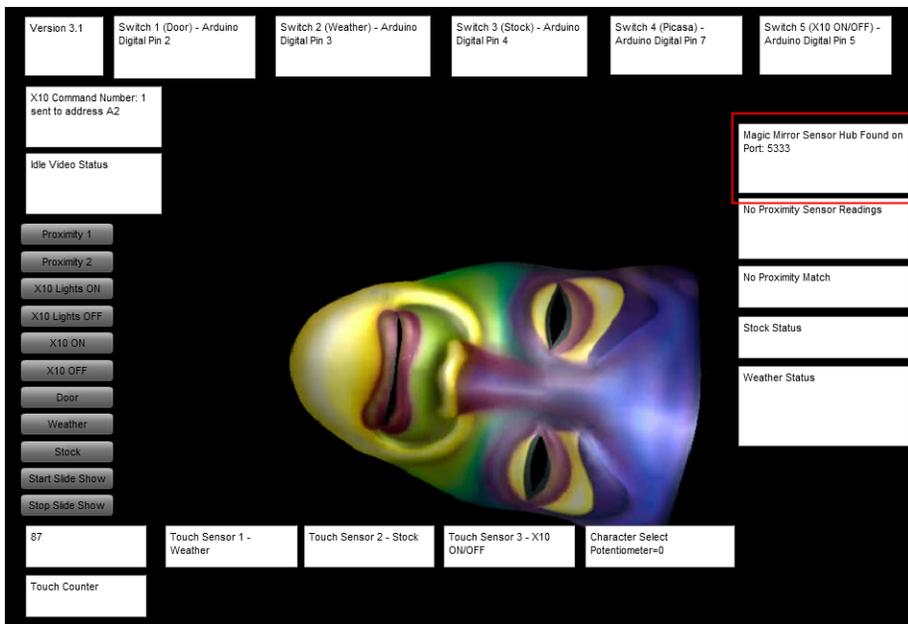
Save Reset to Defaults



8 From the desktop, launch the Magic Mirror program. If you see < Sensor Hub Found on Port: 533x> where x is the com port number of your sensor hub and one of the characters is playing, then your Magic Mirror software is installed correctly. Now refer to the DIY Magic Mirror Operations Manual for instructions on how to wire up the sensors and configure the Magic Mirror.

Turn the character select knob to see the character change.

If prompted by your Firewall, instruct it to permanently unblock serproxy.exe.



Adobe AIR will periodically prompt for automatic updates. To disable Adobe AIR automatic updates, run this application <http://airdownload.adobe.com/air/applications/SettingsManager/SettingsManager.air> and then disable automatic updates.