

DIY Magic Mirror

Quick Setup v6

PC (Windows XP, Windows Vista, Windows 7)

Quick Setup Instructions

The Magic Mirror Quick Setup is for Non-Techies to get up and running quickly. To use the quick setup, you'll need to have purchased an assembled Magic Mirror Sensor Hub.



Figure 1 – Assembled Magic Mirror Sensor Hub with Case (Yellow Push Button and Cable Not Included)

- **Step 1** Download the Magic Mirror Software from <u>http://diymagicmirror.com/install-pc.html</u>.
- **Step 2** Launch the setup program to install the software.

DIY Magic Mirror Setup		×
E	Welcome to the Installation Wizard for the DIY Magic Mirror	
	This will install the DIY Magic Mirror version 4.2 on your computer.	
	******* IMPORTANT ********	
	If you are running on Windows Vista or Windows 7, you must run this installation witzard as administrator. If not, cancel now and then right click this setup file and choose "Run as administrator"	
	It is recommended that you close all other applications before continuing.	
	Click Next to continue or Cancel to exit Setup.	
		35
	Next > Cance	el
	<u>International International I</u>	



Figure 2 – USB Connection to PC

Step 4 If you are prompted for a driver (Windows XP users will be prompted for a driver), install the driver from c:\Program Files\DIY Magic Mirror\drivers or c:\Program Files (x86)\DIY Magic Mirror\drivers if your OS is 64-bit.



Step 5 From your desktop, launch the "Magic Mirror Quick Setup" program. If prompted, instruct your firewall to always allow serproxy.exe.



Step 6 Look for "Detected" to ensure the software has found the Magic Mirror Sensor Hub. The autodetection does not work on some computers. If you get "Not Detected", exit the program and try again. If still not detected, then go to the "Manually Detecting the Sensor Hub" section at the end of this manual to manually find the Sensor Hub.

Magic Mirror Quick Setup			
Magic Mirror Quick Set	up Version 6.0		Check for Updates
Registration Code			
Magic Mirror Sensor Hub Sta	atus	Detected]
Breathalyzer	ON	OFF	8
Weather Forecast	O ON	 OFF 	Twitter Feature O ON OFF
Stock Performance	O ON	 OFF 	Change Twitter Account diymagicmirror Tweets Every
Videos	O ON	 OFF 	Search Term Speakmirror Don't Speak Search Term
Text to Speech	 ON 	O OFF	Tweet My Breathalyzer Results (Breathalyzer must be turned on)
Text to Speech Settings			
US Zip Code (For the Weath	er) 97411 or Y	! World ID	Find your World ID
Stock Gain for a Good Day		3	Enter Stock Symbol(s)
Stock Loss for a Bad Day		-1	sbux+goog+aapl+cy+ge
			Clear Stocks
		Save	

Step 7 Connect the desired buttons and sensors to the plug and play connections in figure 3.



From the Magic Mirror Quick Setup Program, turn on the buttons and sensors you have connected. In the example setup in Figure 4, the Breathalyzer and Weather sensors are connected so your screen would look like this:

Magic Mirror Quick Setup V	ersion 6 (Y	Check for Hodelan
Registration Code			Check for opdates
Magic Mirror Sensor Hub Status		Detected	
Breathalyzer	 ON 	OFF	
Weather Forecast	ON	OFF	Twitter Feature ON OFF
Stock Performance	O ON	 OFF 	Speak My Tweets Speak Only Tweets Entered by Me
Videos	O ON	 OFF 	Search Term speakmirror Don't Speak Search Term
Text to Speech	 ON 	OFF	Tweet My Breathalyzer Results (Breathalyzer must be turned on)
Text to Speech Settings			
US Zip Code (For the Weather)	7411 or Y	1 World ID	Find your World ID
Stock Gain for a Good Day		3	Enter Stock Symbol(s) Add
Stock Loss for a Bad Day		-1	sbux+goog+aapl+cy+ge
			Clear Stocks
		Save	

Enter your zip code for the weather forecast (or your Yahoo World ID if you are outside of the United States) and your stock information if using the stock feature. Also enter your Registration Code.

Step 8 From your desktop, launch "Run Magic Mirror." Important: Make sure you've connected the sensors and buttons **before** launching "Run Magic Mirror."



Step 9 Push the button to start the Breathalyzer. You'll be prompted to blow into the alcohol sensor. The alcohol sensor is hot so just blow on the alcohol sensor without touching it with your mouth. At the end of the countdown, the Magic Mirror will speak one of the responses in figure 5. The responses in figure 5 will be proportional to your alcohol intake but note that the Magic Mirror Breathalyzer is **not** a professional Breathalyzer (it does not provide a blood alcohol content number) and should be used for novelty purposes only. You may also calibrate the thresholds of the responses using the Advanced Magic Mirror Configuration program.



Blow...4



Figure 5 – Breathalyzer Responses

Step 10a The Magic Mirror features a Text to Speech mode that allows you to define your own responses to the sensor events. Click < ON > to enable the Text to Speech feature and then click the < **Text to Speech Settings** > button.

/ Magic Mirror Quick Setup			
Magic Mirror Quick Setup V	ersion 6.0		Check for Updates
Registration Code			
Magic Mirror Sensor Hub Status		Detected	
Breathalyzer	 ON 	OFF	8
Weather Forecast	O ON	 OFF 	Twitter Feature O ON OFF
Stock Performance	O ON	 OFF 	Change I writer Account urymagicharton Tweets Every 10 Speak My Tweets Speak Only Tweets Entered by Me
Videos	O ON	 OFF 	Search Term Speakmirror Don't Speak Search Term
Text to Speech	ON	O OFF	Tweet My Breathalyzer Results (Breathalyzer must be turned on)
US Zip Code (For the Weather)	7411 or Y	! World ID	Find your World ID
Stock Gain for a Good Day		3	Enter Stock Symbol(s) Add
Stock Loss for a Bad Day		-1	sbux+goog+aapl+cy+ge
			Clear Stocks
		Save	Ĵ

Step 10b Enter your desired responses for each sensor event and click < Save >. Refer to Step 11 for how to enter the Text to Speech mode.

Magic Mirror Quick Setup	
Text to Speech Settin	Go Back
TTS Language	Fnolish
Proximity 1 Response	Hi Jane, can you come closer pretty please
Proximity 2 Response	You look different, have you lost some weight?
Proximity 3 Response	Say you really look great today, is that a new shirt you're wearing?
Weather Good Day	What a beautiful day, the forecast is
Weather OK Day	Today's weather forecast is
Weather Raindy Day	Better get your umbrella, the forecast is
No Internet	Your Internet connection is down, I would help you but I'm just a computer
Stocks Up	Your stocks were up today with a rise of
Stocks Little Change	Not much change in your stocks today, the change was
Stocks Down	Your stocks were down with a loss of
Doorbell	You've got a visitor at the door
X-10 ON Command	l will now turn on your X-10 device
X-10 OFF Command	I will now turn off your X-10 device
Breathalyzer No Drinks	You've not had anything to drink
Breathalyzer A Few Drinks	I can smell a few drinks on you
Breathalyzer Buzzed	Looks like someone is buzzed, are you having problems walking?
Breathalyzer Drunk	You're Drunk! I'd recommend you give someone your keys
Breathalyzer Prompt to Blow	Blow
Breathalyzer Prompt to Wait	Please Wait
Add the text for the Magic Mir	ror to speak for the events above. TTS (Text to Speech) can handle a maximum of 100
characters for each event. The	Magic Mirror automatically adds text to the end of the Weather and Stock events. To use
TTS, run the Magic Mirror and	turn the character select knob until you hear Text to Speech Mode.
	Save

Step 11 Turning the knob will change the characters in figure 6. When turning the knob, listen for the Magic Mirror to announce "Custom Audio Mode" to enter this mode.



Figure 6 - Magic Mirror Characters

Step 12a Click < ON > to turn on the Twitter feature. Using the default settings, the Magic Mirror will speak (using Text to Speech) any Tweet containing "speakmirror" while checking Twitter every 10 seconds. For example, the Tweet "speakmirror hello from the Magic Mirror" will result in the Magic Mirror speaking "hello from the Magic Mirror". You may also change the search term to any keyword you like. The Magic Mirror automatically filters out any word containing http:// so URLs are not spoken. Uncheck < Don't Speak Search Term > to have the Magic Mirror also speak the search term.

/ Magic Mirror Quick Setup			
Magic Mirror Quick Setu	p Version 6.0		Check for Updates
Registration Code			
Magic Mirror Sensor Hub Sta	tus	Detected	
Breathalyzer	ON	OFF	
Weather Forecast	O ON	 OFF 	Twitter Feature ON OFF
Stock Performance	O ON	 OFF 	Change Twitter Account diymagicmirror Tweets Every 10 s Speak My Tweets Speak Only Tweets Entered by Me
Videos	O ON	 OFF 	Search Term speakmirror Don't Speak Search Term
Text to Speech	 ON 	O OFF	Tweet My Breathalyzer Results (Breathalyzer must be turned on)
Text to Speech Settings			
US Zip Code (For the Weathe	er) 97411 or Y	! World ID	Find your World ID
Stock Gain for a Good Day		3	Enter Stock Symbol(s)
Stock Loss for a Bad Day		-1	sbux+goog+aapl+cy+ge
		Paul	Clear Stocks
		Save	_

Step 12b Alternatively, you may link your Twitter account to the Magic Mirror. The Magic Mirror will then speak Tweets from your Twitter account. Upon starting up, the Magic Mirror will speak your most recent Tweet and then per the < Check for New Tweets Every > setting (default is 10 seconds), speak any new Tweet. Checking < Announce Only My Tweets > will limits responses to just Tweets authored by you.

Check **"Tweet My Breathalyzer Results**" to have the Magic Mirror automatically Tweet your Breathalyzer results.

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igic Mirror Quick Setup	p version 6.0		Check for Update
rgis Mirror Consor Unit State		Detected	
agic Mirror Sensor Hub Statu	JS (D) ON		
reathalyzer	ON O	0 OFF	Twitter Feature ON
leather Forecast	O ON	 OFF 	Change Twitter Account diymagicmirror Check for New
tock Performance	O ON	 OFF 	Speak My Tweets Speak Only Tweets Entered by Me
ideos	O ON	 OFF 	Search Term speakmirror Don't Speak Search Te
ext to Speech	 ON 	OFF	Tweet My Breathalyzer Results (Breathalyzer must be turned or
Text to Speech Settings			
S Zip Code (For the Weather	r) 97411 or Y	(! World ID	Find your World ID
tock Gain for a Good Day		3	Enter Stock Symbol(s)
tock Loss for a Bad Dav		-1	shiiyanonaaanlacyane
			apar. Teo T. Indu. A. Ta
			Clear Stocks
Witter			
Twitter	ation would 1 DIY Magic Mi gicmirror.con lata on Twitter. N	d like to co irror by n would like th Not using Twitt	Dennect to your Twitter takes your privacy very seriously. Only click "Allow" for applications you trust. Allowing this application to connect to your account may give DIV Magic Mirror access to your
Twitter Construction An applica account The application http://diyma update your d conversation!	ation would a DIY Magic Mi gicmirror.con lata on Twitter. M	d like to co irror by n would like th Not using Twitt	Twitter takes your privacy very seriously. Only click "Allow" for applications you trust. Allowing this application to connect to your account may give DIY Magic Mirror access to your Direct Messages (DMs), or the ability to Tweet on your behalf.
Twitter The application The application http://diyma update your d Conversation! Username or Email:	ation would n DIY Magic Mi gicmirror.con lata on Twitter. N	d like to co irror by n would like th Not using Twitt	Demnect to your Twitter takes your privacy very seriously. Only click "Allow" for applications you trust. Allowing this application to connect to your account may give DIV Magic Mirror access to your Direct Messages (DMs), or the ability to Tweet on your behalf. You may revoke access to this applications at any time by
Twitter The application The application http://diyma. update your d Conversation! Username or Email: Password:	ation would n DIY Magic Mi gicmirror.con lata on Twitter. N	d like to co irror by n would like th Not using Twitt	Demnect to your Twitter takes your privacy very seriously. Demonstration of the ability to access and er? Sign up and Join the Twitter takes your privacy very seriously. Only click "Allow" for applications you trust Allowing this application to connect to your account may give DIY Magic Mirror access to your Direct Messages (DMs), or the ability to Tweeke access to this application at any time by visiting your Settings page.
Twitter EXAMPLE A CONTRACT OF CONTRACT The application http://diyma update your d Conversation! Username or Email: Password:	ation would n DIY Magic Mi giemirror.con lata on Twitter. N Deny	d like to co irror by n would like th Not using Twitt Allow	Demnect to your Twitter takes your privacy very seriously. Demonstration of the ability to access and er? Sign up and Join the Twitter takes your privacy very seriously. Only click "Allow" for applications you trust Allowing this application to connect to your account may give DIY Magic Mirror access to your Direct Messages (DMs), or the ability to Tweet on your behalf. You may revoke access to this application at any time by visiting your Settings page.

After clicking "Link Twitter Account", enter your Twitter username and password from this box. You only have to do this once.

Check "Tweet My Breathalyzer Results" (default is Off) and the Magic Mirror will automatically Tweet your Breathalyzer results.

Magic Mirror Quick Setup		1.5 Million	× 🗆 -
Magic Mirror Quick Setu	p Version 6.0		Check for Updates
Registration Code			
Magic Mirror Sensor Hub Stat	us	Detected	
Breathalyzer	ON	OFF	4
Weather Forecast	ON ON	 OFF 	Twitter Feature ON OFF Check for New
Stock Performance	O ON	 OFF 	Change Twitter Account diymagicmirror Tweets Every 10 S Speak My Tweets Speak Only Tweets Entered by Me
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Stock Gain for a Good Day		3	Enter Stock Symbol(s)
Stock Loss for a Bad Day		-1	sbux+goog+aapl+cy+ge
			Clear Stocks
		Save	

Breathalyzer Tweets

	nome Proide Pir	ia reopie Settings neip Sign (
		Name magicmirror
e magicmirror2000		8 0 0 following followers listed
РНОТО		Tweets 4
That's you!	≣ Lists ▼	Favorites
		Following
I'm Elat Out Drunk :705		🛛 👭 🌄 🔧 🖗 🛄 🧚
1:33 AM Sep 7th via DV Manie Mirror		🧑 🚥
I've had nothing to drink :123		RSS feed of magicmirror2000's tweets
l've had nothing to drink :98		
9:41 PM Sep 6th via DIY Magic Mirror		
I'm Flat Out Drunk :726		
12:15 AM Sep 6th via DIV Magic Mirror		
I'm Flat Out Drunk :762		
11:57 PM Sep 5th via DIY Magic Mirror		
I'm Buzzed :565		
11:48 PM Sep 5th via DIY Magic Mirror		
I'm Buzzed :516		
11:48 PM Sep 5th via DIV Magic Mirror		
I've had nothing to drink 197		

Step 13 Optional - Adobe AIR will periodically prompt for automatic updates. To disable Adobe AIR automatic updates, run "Adobe AIR Auto Updates" and then select "Disable Updates".



If you do not do this, you'll get an Adobe AIR upgrade prompt every so often which will be a problem if you are running in a kiosk mode (no keyboard/mouse).



In addition to the buttons, touch sensors may also be used as well as a proximity sensor (the proximity sensor does involve some soldering). See <u>http://diymagicmirror.com/sensors.html</u> for places to purchase the sensors.

Sensor	Magic Mirror Function(s)		Sensor Picture
Proximity Sensor (1) – Maxbotix LV- EV1, a sonar based sensor that measures the distance of objects up to 22 feet	Plays various animations based on the distance the subject is from the sensor		
Touch Sensors (Up to 3) – From left to right: Seeedstudio Touch Sensor, Phidgets 1110, and Phidgets 1129	Weather Forecast, Stock Performance, and Videos	E	Prilogers com Private com Priv



Figure 6 – Magic Mirror Sensor Hub Connections

Manually Detecting the Sensor Hub

Exit the "Magic Mirror Quick Setup" program.

Run Device Manager from the Windows Control Panel or as a shortcut, type "devmgmt.msc" from the Windows run command. Make a note of the COM Port number next to "Arduino UNO" or "USB Serial Port".

📲 Device Manager 📃 📃	X Device Manager
File Action View Help	File Action View Help
🧇 🧼 💼 🖬 🙀	
Computer Disk drives Display adapters Display adapters DVD/CD-ROM drives Floppy drive controllers Floppy drive controllers DVD/CD-ROM drives Floppy drive controllers DVD/CD-ROM drives IDE ATA/ATAPI controllers IDE ATA/ATAPI con	Computer Disk drives Disk drives Display adapters DVD/CD-ROM drives Floppy drive controllers UDF ATA/ATAPI controllers DE ATA/ATAPI controlle
l I	
Breathalyzer with Case Version of the Kit	Raw Version of the Kit



Launch "Magic Mirror Advanced Setup"

Select the Magic Mirror Sensor Hub Port. If your Sensor Hub is on COM6, then choose 5336. If it is on COM7, then choose 5337 and so on.

IMPORTANT: If you've got the Breathalyzer version of the Kit with the case, then select "Version 5.0". This would have been automatically selected if the Sensor Hub was detected using the "Magic Mirror Quick Setup" program. If you've got the raw version of the Kit, then leave at "Version 4.0".

Magic Mirror Advanced Configuration		
Enter Registration Code	Magic Mirror	Check for Updates Online Manuals Help Version 6.0
Magic Mirror Character Princess 👻	Sensor Hub	Switch 1 - Door Switch ON OFF Proximity Videos Instead
Facial Recognition w/ USB Webcam O ON O OFF	<u> </u>	Switch 2 - Weather Forecast ON OFF
Mode Presets Normal View Mode & Adjust	OFF Proximity	Switch 3 - Stock Performance ON OFF
Frame ON OFF Select Frame Frame 1	OFF Trush 1	Switch 4 - Picasa Slide Show ON OFF
Stealth Mode ON OFF	OFF IOUCH I	Switch 5 - Breathalyzer ON OFF Breathalyzer Settings
Orientation O Portait (90) O Portrait (270) I Landsc (0) Landsc (180)	OFF Touch 2	Mode for the LEDs. Flickering Fire indicators
Video Resolution (e) High-Res (for older hw & if video is jerky)	or reading	Proximity Sensor ON OFF
US Zip Code 97411 or Y! World ID Find your World ID	OFF Touch 3	Proximity 2 Lower Range 20 Upper 26 Time 100
Forecast Cutoff 11 Good Weather 70 Unit Fahrenheit -		Prox 2 Can Play Before Prox 1 ON OFF
	Switch 1 OFF	Touch Sensor 1 - Weather ON OFF Custom Video 1 Instead
Symbol(s) Add Clear Stocks		Touch Sensor 2 - Stock ON OFF Custom Video2 Instead
sbux+goog+aapi+cy+ge	Switch 2 OFF	Touch Sensor 3 - X-10 ON/OFF ON OFF Proximity Vids Instead or
Good Stock Threshold 3 Bad Stock Threshold -1		Character Select Potentiometer ON OFF Custom Video3 Instead
	Switch 3 OFF	X-10 Lighting Control ON OFF
Twitter Feature O ON OFF		Lights House Code A V Lights Unit Code 2 V
Change Twitter Account diymagicmirror Tweets Every 10 s	Switch 4 OFF	ON/OFF House Code
Speak My Tweets Speak Only Tweets Entered by Me	Switch 5 ON	Magic Mirror Sensor Hub Port 5336 - Sensor Hub Version Version 5.0 -
Search Term speakmirror Don't Speak Search Term	Char	Startup Delay (seconds) 5332 Sensor Hub to Arduino
Tweet My Breathalyzer Results (Breathalyzer must be turned on)	Select Pot ON	Verbose/Debug Mode ON 5333 Pin Mapping Reference
		Stock Readout Text ON 5334
Picasa Slide Show Settings		Weather Readout Text ON 5335 - Weather Icon ON OFF Breathalyzer Results Text ON 5336 -
Picasa/Google ID magicmirror2000 Refresh Album List	() ON (•)	OFF Stand Alapa Mada/Na Sansor
Picasa Albums Select Album IP Camer	a URL or IP address	(no http://) thepoolcam.dyndns.tv Port 80 Hub
Selected Album DIY Magic Mirror IP Camer	a Make Axis	Adjust Doorcam Positioning Enable Stand Alone Mode
Slide Duration 5 seconds Video Str	eam Path	/axis-cg/mjpg/video.cgi Stand Alone Weather Icon
Adjust Slide Show Positioning & Size IP Camer	a Username	IP Camera Password Stand Alone Stock Icon
Save	Reset to Defaults	

Click < Save > when done and exit the "Magic Mirror Advanced Setup" program.



Launch the "Magic Mirror Quick Setup" Detected" which is fine.

program again and continue to **Step 7**. You may still get "Not