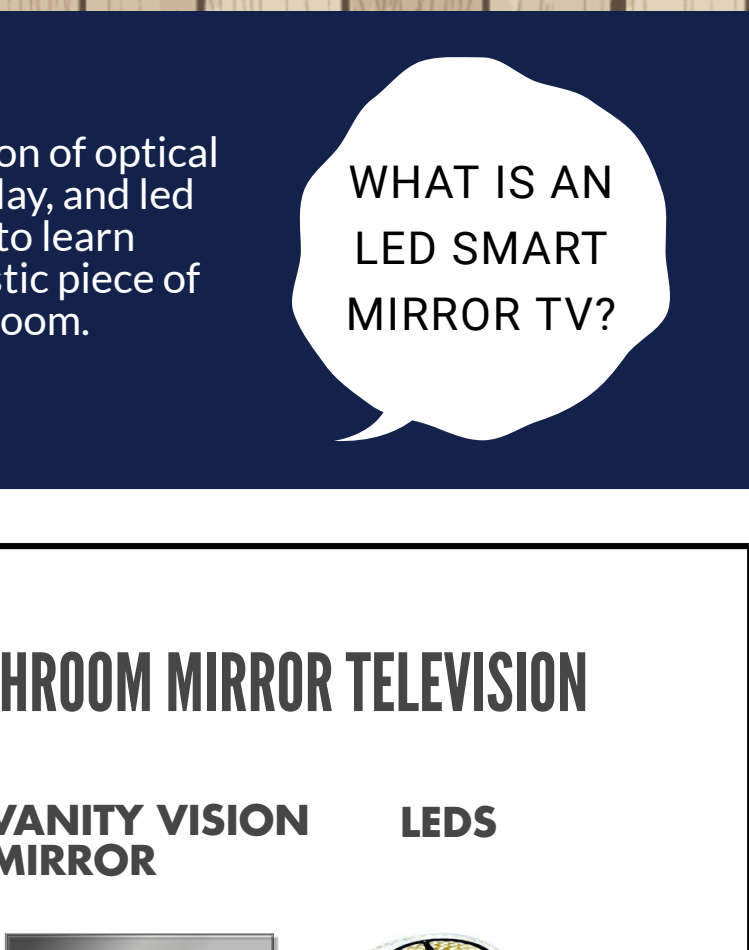


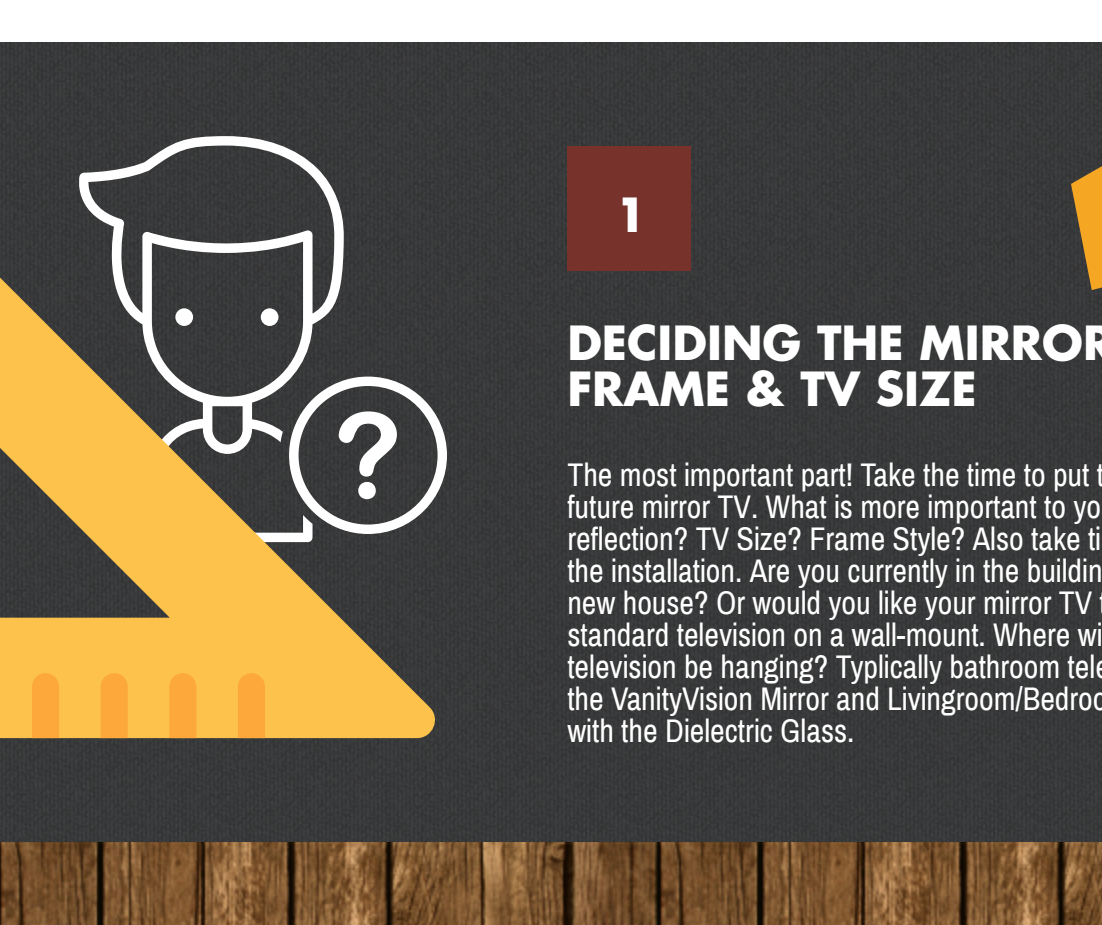
# CREATE YOUR OWN LED SMART MIRROR TV



An led smart mirror tv is a combination of optical glass (smart mirror), framing, a display, and led stripping. A perfect DIY project to learn woodworking while adding a futuristic piece of high tech home decor to any room.

WHAT IS AN  
LED SMART  
MIRROR TV?

## SUPPLIES FOR FRAMED BATHROOM MIRROR TELEVISION



## SUPPLIES FOR FRAMED LIVINGROOM MIRROR TELEVISION



## 1 DECIDING THE MIRROR, FRAME & TV SIZE

The most important part! Take the time to put thought into your future mirror TV. What is more important to you? Mirror reflection? TV Size? Frame Style? Also take time to think about the installation. Are you currently in the building phase for a new house? Or would you like your mirror TV to hang like a standard television on a wall-mount. Where will your mirror television be hanging? Typically bathroom televisions go with the VanityVision Mirror and Livingroom/Bedroom televisions go with the Dielectric Glass.

### VANITY VISION BATHROOM TV MIRROR

A vanityvision mirror, also commonly known as a smart mirror, is a transparent mirror that displays information such as weather, calendar events, news, and social media notifications. The screen, which is hidden behind the glass, is a TV, monitor, or tablet. Framed and frameless styles are both popular, depending on the style of the living space. These mirrors are perfect for bathroom.

**Tip** MORE REFLECTIVE

### DIELECTRIC BEDROOM LIVINGROOM MIRROR TV

A dielectric mirror, also known as a tv mirror, has a semi-transparent mirror coating on the glass that allows it to become a mirror in favorable lighting conditions. This is the number one choice for mirror tv installations because it provides flawless picture quality through the mirror, while still maintaining a beautiful reflection when the television is off. This is a special kind of "two way mirror", manufactured on a clear glass substrate that has absolutely no color tint and high clarity.

**Tip** MORE TRANSPARENT

### TV View-able Area Only



Dielectric Glass

### Smaller TV Larger Mirror

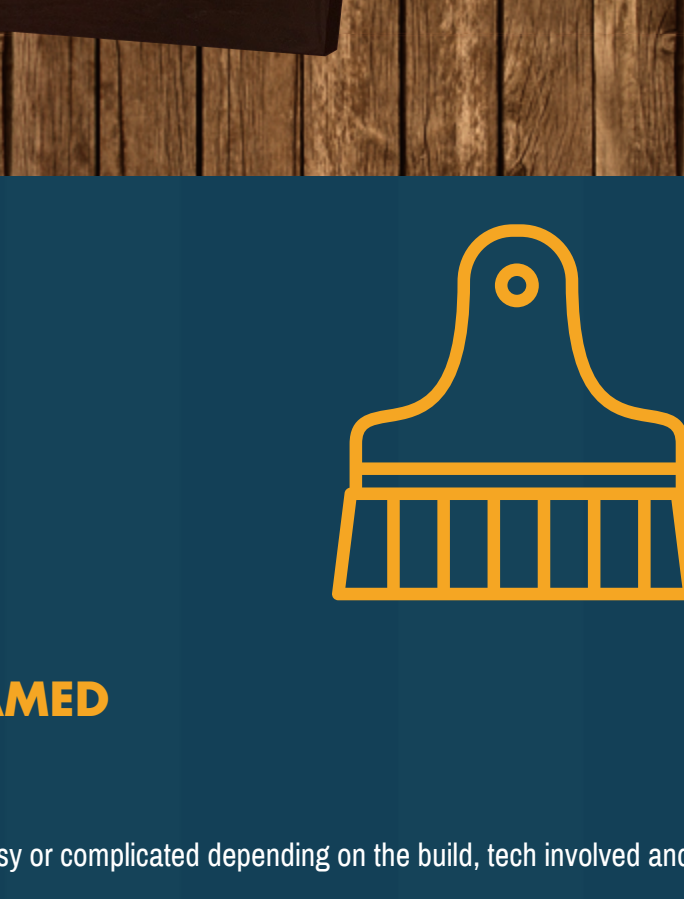


VanityVision Glass

## FRAMED OR FRAMELESS?

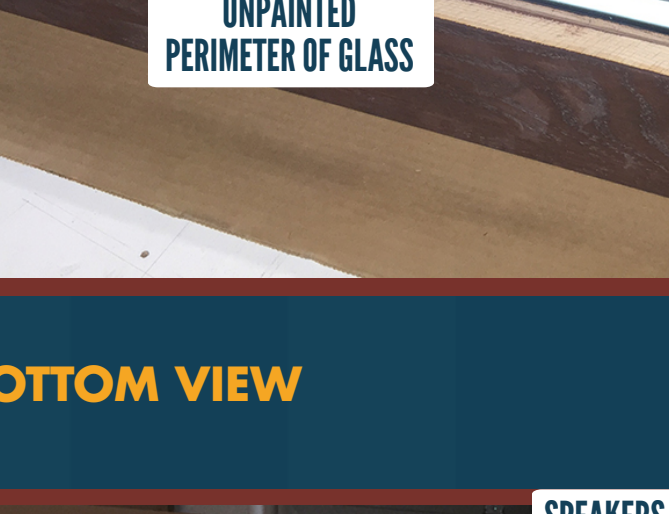
No you are not required to frame your mirror and television, but depending on the overall look and desired glass a frame may look better. Framed mirror televisions and frame less installations are very different. With a framed installation the television can be hung like a standard TV on a wall-mount. Where as a recessed frame less bathroom mirror TV will need to be flush within the wall. Then the mirror attached with j-channels or mirror clips.

**\*\*HOW DO YOU PLAN ON INSTALLING IT?**



## TELEVISION SIZES ARE MEASURED DIAGONALLY

**Tip**

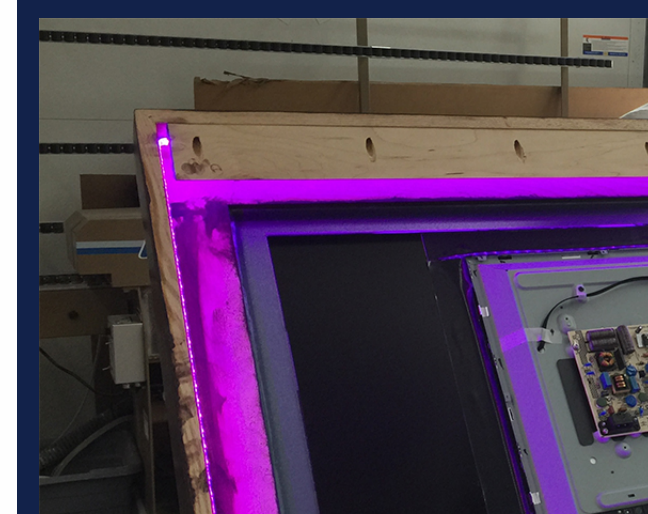


## FIGURE OUT YOUR DESIRED TV SIZE

How often will you be watching the television and from how far away? Answering these questions will also help you determine which mirror type best fits your application.

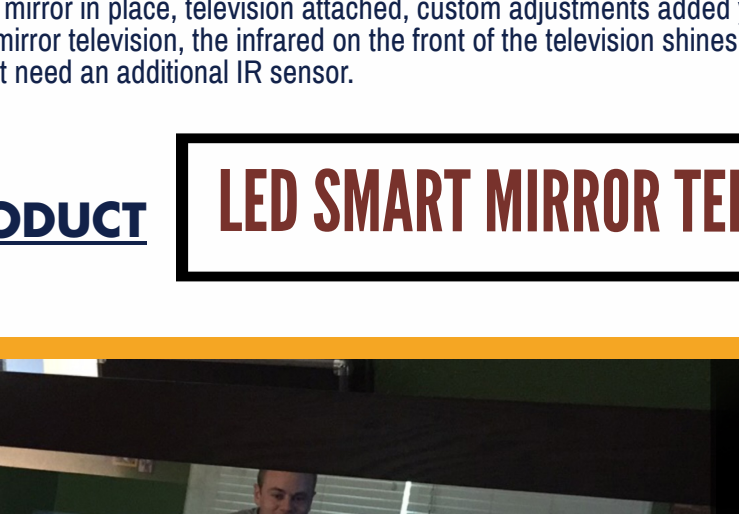
## NOW WHICH HAVE YOU CHOSEN?

### DIELECTRIC MIRROR TELEVISION



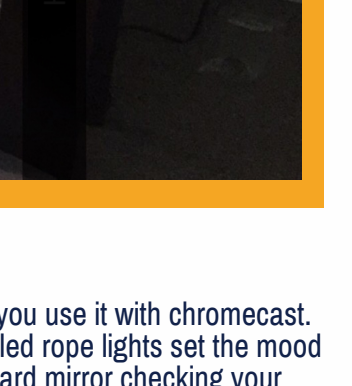
OR

### VANITYVISION MIRROR TELEVISION



## ASSEMBLY TIME

**2**



### CREATING VANITYVISION FRAMED MIRROR TELEVISION

Creating the frame for your VanityVision television can be easy or complicated depending on the build, tech involved and the plan for mounting the television after its created.

The particular application below will hang by the top wooden french cleat created within the framing. The other part of the cleat will be mounted to the wall. The two pieces of wood at a forty-five degree angle will make for a seamless mount.

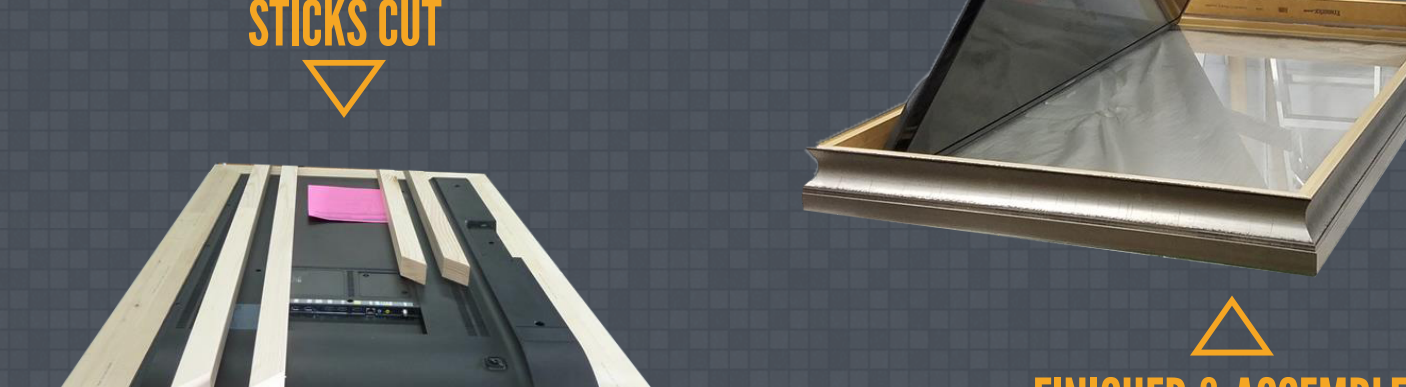
This frame did not need any custom routing as it is only holding the 1/4" mirror in place. The television itself is attached to the glass with VHB tape and black caulk to block the light. The television will hold no weight as its only 32" and would not be able to support the weight of the entire unit.

The existing mirror space is also back painted to cut light out from behind the glass. Two inches all the way around the mirror is left unpainted for the LED rope lights to shine through. This is where we will apply the frosted laminate for a clean glow through the mirror when the lights are on.

**BACK VIEW**



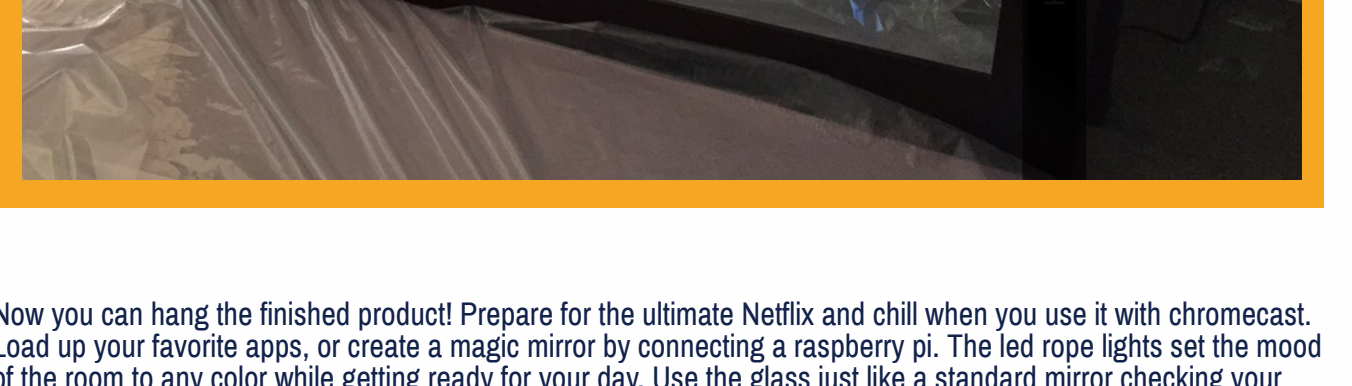
**BOTTOM VIEW**



Creating the frame for your VanityVision television can be easier or more complicated depending on the build, tech involved and the plan for mounting the television after its created. Framed applications can be more difficult in the beginning but lead for an easier mounting process in the end compared to frame less applications that require a flush recessed television installation.

## 3 ATTACH LEDS & TEST

**3**



The final steps of this custom VanityVision LED Smart Mirror TV build includes applying the frosted laminate to the exposed un-painted edges of the mirror.

Once the frame is created, mirror in place, television attached, custom adjustments added you are ready to test the television. For this type of mirror television, the infrared on the front of the television shines through the vanityvision glass. Therefore you do not need an additional IR sensor.

**FINISHED PRODUCT** **LED SMART MIRROR TELEVISION**



Now you can hang the finished product! Prepare for the ultimate Netflix and chill when you use it with chromecast. Load up your favorite apps, or create a magic mirror by connecting a raspberry pi. The led rope lights set the mood of the room to any color while getting ready for your day. Use the glass just like a standard mirror checking your reflection and applying makeup.

## 2 CREATING THE DIELECTRIC MIRROR TELEVISION FRAME

**2**

Creating the frame for your dielectric mirror television begins with measuring all the bezels of the television as well as the television thickness. Ideally you want to frame the television right to the view able area. Use a routing table once you have the measurements. You will need to create the custom cut routed area within the frame. If you wish to completely encase the television within the frame, consider using double the frame material and create a "back build" to the front four sticks of your frame.

MEASURE CUT ROUTE TEST TEST AGAIN GLUE



## BACKBUILD TIME

## COMPLETELY HIDE THE TELEVISION FROM THE SIDE

To do this you will need an additional 4 frame sticks cut to the remaining depth of the TV that rises above your first four sticks. You can determine this measurement by placing the television face down within the frame. Take a tape measure and find the depth of the material you will need to cut in order to create a flush back build.

**BACK BUILD EXAMPLE**



**BACK BUILD STICKS CUT** **FINISHED & ASSEMBLED BACK BUILD**

## 3 ASSEMBLE CLEATS & TEST

**3**

Depending upon your frame style, television & mirror thickness, this will determine the size of the aluminum french cleat or z bar. You will want these channels across all four sides of the television holding the television in place within the frame. The glass will be sandwiched between the TV inside the frame.



Be sure to figure out where on your television model hides the televisions IR. The Infra Red Sensor communicates with your remote. When framing the television you will have to cover this sensor with the frame molding. You will need to purchase an Infra Red Repeater to attach to your television from behind so this remote will work with your new mirror TV.

## FINISHED PRODUCT

## SAMSUNG LED MIRROR TV



THANKS FOR TUNING IN

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