

# LED Wall Buyers Guide

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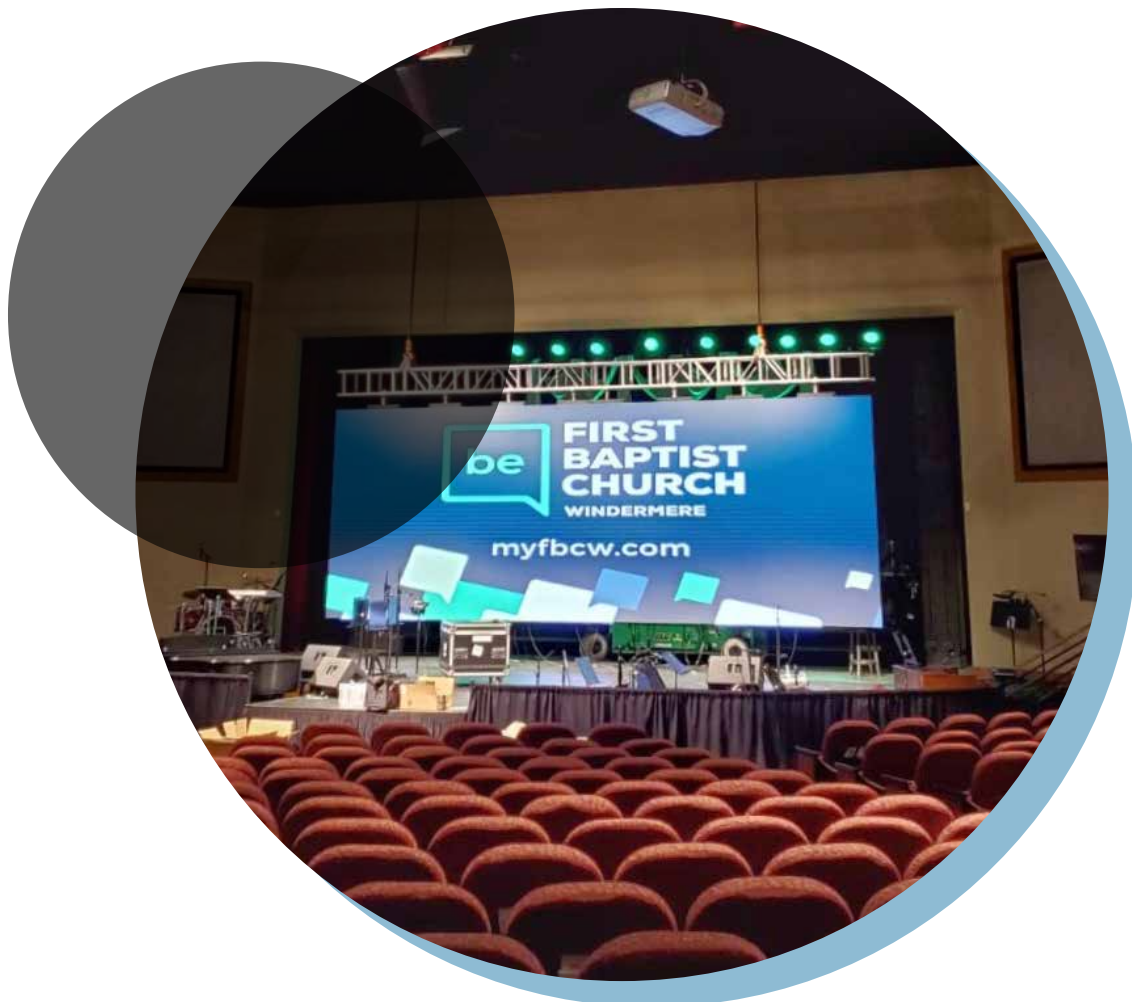
Everything you need to  
know about LED.

## What will you find on this guide?

We know that when the time to buy an LED Wall comes it can be overwhelming to choose the right one. With so many options and a variety of quality and prices you will have to filter and do a lot of research in order to find the appropriate one.

For us, it's important that you know which options are out there and understand the different types of LED screens that are available on the market. If not you can end up getting stuck with something that doesn't satisfy your needs.

Whether you are looking to rent an LED wall for staging or interested in a permanent installation, this document will guide you to find all the information you need to know before you go out to the market in search of LED screens.





# COURAGE

Being brave enough to do  
what you should do,  
even when you're afraid

## Questions this guide will answer:

Do i need an Indoor or Outdoor LED Video Wall?

What size should my LED Video Wall be?

How close will my audience need to be to the LED Wall?

What type of installation do I need?

What is the installation cost?

What Refresh Rate are the panels?

What brightness should it have?

Which is the proper resolution?

What kind of Warranty do we offer?

What if a module stops working?

What if a pixel stops working?

What if I want to change the shape of my LED Video Wall?

What's the maintenance of a LED Video Wall?

How Much Does an LED Wall Cost?

## Do I need an Indoor or Outdoor LED Video Wall?

This question is important because outdoor Panels are generally more expensive than indoor panels. The main difference that will come is brightness.

- Outdoor panels will likely be brighter because they are designed to compensate for sunlight.
- Outdoor panels will be more durable as they need to withstand weather conditions, dust, moisture and dirt.
- Outdoor panels will consume more energy as well.

## What size should my LED Video Wall be?

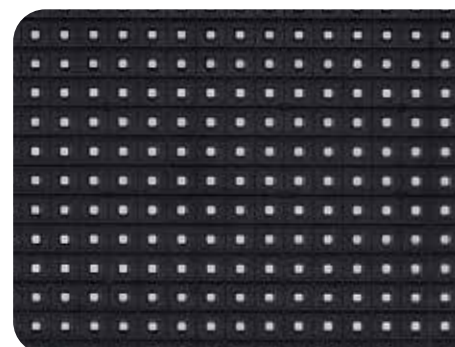
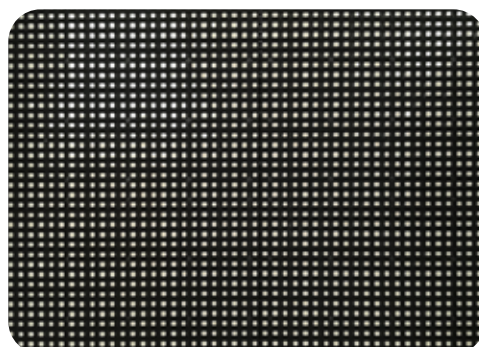
We could give you an easy answer based on the space you have available and shape desired. Majority of times you want to keep a similar 16:9 aspect ratio.

The next important question to answer is how much space do you have on your stage? A general rule is to take the width of your stage and subtract 10 feet. For example, if the width of your stage is 50 feet, then 40ft. LED Wall would be appropriate.

## How close will my audience need to be to the LED Wall?

This question is important because outdoor Panels are generally more expensive than indoor panels. The main difference that will come is brightness.

- P1.99mm: >6 ft.
- P2.97mm: >8 ft.
- P3.91 mm: >10 ft.
- P5mm: >15 ft.



## What type of installation do I need?

Most common techniques are:

1) **Ground Support Installation:** This method system is a combination of a base-unit, connection bar and ladder truss that creates a very stable system to support your LED screens in various configurations and offers flexibility in height as well as width. It is the most simple way to build an LED Wall. You can find ground supports on our website ([www.lednationusa.com](http://www.lednationusa.com)).

2) **Flown Method (rigging):** There are certain requirements that need to be in place in order to fly a screen. Most importantly, there needs to be ample structural support in the ceiling to hold the total weight of the screen. When someone says they want to “Fly” an LED screen, that means the screen will be rigged to either an overhead truss system, a ceiling grid, a crane, or some other support structure from above.

3) **Wall Mounted:** Some panels can be drilled and mounted into the wall. This is a great option if you’re looking for an aesthetically clean look with easy maintenance features.



## How much does installation cost?

We include all costs in the overall quote. The cost of installation will depend on the method and size of the video wall.

## What Refresh Rate are your panels?

If you broadcast, or plan to broadcast online, you'll want to ensure your panels have a refresh rate no less than 3840 hz. Low refresh rate panels will result in more lines (those wavy lines you see when you film a TV screen). This can potentially be a distraction to your online audience.



## What brightness should it be?

Indoor brightness: 1000-1500 nits

Outdoor brightness: 2000-5000 nits

## Which is the proper resolution?

Pixel pitch is the distance from the center of an LED cluster (or pixel) to the center of the next LED pixel measured in millimeters. Resolution is the number of pixels contained in the physical area of your LED display. The more pixels you have per square meter, the more detail your wall will display. The general rule is 2.5 ft. per 1 mm of resolution.

## What kind of Warranty do you offer?

Our warranty is included in the overall price. We offer a 3-year warranty on all of our LED Wall panels.



## What if a module stops working?

The last thing you want is to be in the middle of a show and have a module stop working. You'll want to ensure that you have enough spares to replace it. We will supply you with enough spares to last 3-5 years.

## What do I do if a pixel stops working?

In the case that a pixel is out, we simply remove the module and replace it with a spare.

## What if I want to change the shape of my LED Video Wall?

With LED panels you have the flexibility to create multiple designs and change the shape as many times as you want. Our team of technicians is here for you to help you to re-design your screen.

## Maintaining LED Panels

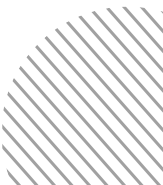


Most LED Panels are rated for 60,000 to 100,000 hours. You'll have these panels for a long time and will get a lot of life out of them. In case something malfunctions, you can get in contact with us and we will give you all the information to properly service and maintain your panels.



## How Much Does an LED Wall Cost?

This is the question that we get numerous times per day. There is no simple answer to "how much does a LED Wall cost?" There are too many options and variables to consider. These factors listed below will affect the overall cost.

- 1.) **Pixel Pitch:** The lower the pixel pitch, the higher the cost.
  - 2.) **Size of LED Wall:** The larger the wall, the more panels you'll need.
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3.) **Servicing Features:** Features like, front-servicing, removable power supplies, temperature meters, easy latch system, edge protectants, and cable-less features all contribute to higher panel costs.

4.) **Refresh Rate:** Refresh Rates 3840hz and higher are referred to as “high refresh rate”. In most cases, this contributes to a high panel cost.

5.) **Installation Method:** Your installation method will affect the overall cost.

## Need more Information?

Having great customer service means that we value our customer's time and we provide you with all the knowledge you need. A positive attitude will make us understand your needs better and that will bring us closer. There will always be problems to solve and we strive to creatively work with each of our customers to bring a solution. We will assist you throughout the whole process of purchasing, transportation, installation and post-sale support.

Visit us online at [www.lednationusa.com](http://www.lednationusa.com)

Call us: 1 (888) 590-1720

Send us an email: [info@lednationusa.com](mailto:info@lednationusa.com)

 **LED NATION**