The Smart Choice
In LED Displays

innoVision LED

Welcome to Innovision

Our products are based on American ingenuity and are built from domestically sourced components including 100% American-extruded aluminum for all our cabinet assemblies. Great pride is put into every product by our workforce in Buffalo, New York.

See the Difference

We are a premier US manufacturer of LED message centers, price changers, time/temperature units and billboards. Innovision LED's research, development, customer service and manufacturing are located in Buffalo, New York. In addition to providing premium quality message centers, we take great pride in our prompt, knowledgeable and courteous service before, during and for the years after every sale. Backed by an industry leading five year warranty, our components and products are manufactured in compliance with ISO 9001-2000, UL and ETL quality standards and are being used in over 5,000 applications in the United States and worldwide.

We invite you to experience the Innovision EDGE and look forward to serving your LED needs.
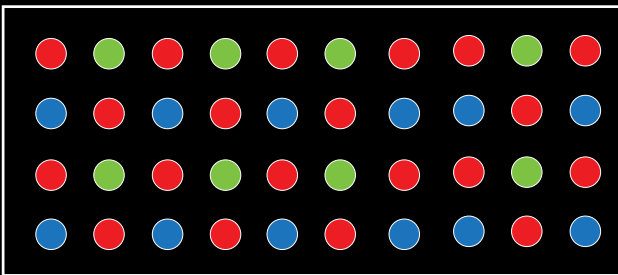
President

The Smart Choice Has Never Been Easier

The Innovision EDGE

The INNOVISION EDGE is driven by numerous factors unique to our brand. Our EDGE is what separates our products from every other brand on the market today.
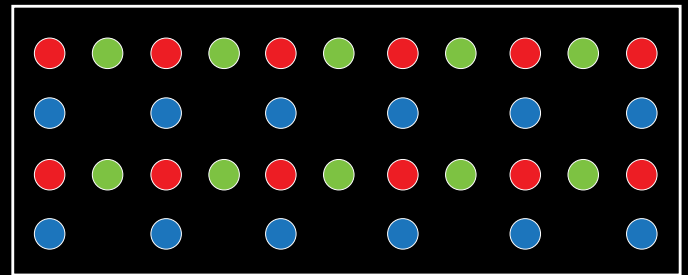
The Product EDGE

Cabinet Design- Innovision LED utilizes the BEST built cabinet, bar none. Engineers and installers alike have taken notice of our proprietary design and superior construction. Made from 100% American-extruded aluminum,our cabinets are designed to be front serviceable while providing the highest level of protection and cooling of all components. Our IP65-rated cabinets can be configured with or without a front access door that allows for the fastest maintenance in the industry. Our revolutionary hinge design allows for easy opening and closing by one technician, no matter how large the display.

LED Modules- We utilize the highest quality diodes and components to guarantee years of trouble free operation. Our diodes and modules are tested over 40 times through the manufacturing process so failures are never an issue. We also utilize 4 LED's per pixel for all of our 16mm and 20mm full color products. Using 4 LED's per pixel versus 3 LED's per pixel allows for superior picture quality and deeper, richer color rendering. Incorporating a 4th LED means 12,800 more LED's per 4' x 8' sign face. Others will claim the extra LED in each pixel is not needed because they simply don't have it.

Innovision's 4 LED's per pixel   **vs.**   **Competition's 3 LED's per pixel**

Power Supplies- conformal-coated power supplies manufactured to our rigorous standards means no failures in power.

Power Protection- all message centers come standard with in-line surge protection

Solid State Control Units- solid state components in a high temperature rated, industrial PC means durable and reliable high power processing for stunning graphics and video.

Durable Industrial Cabinet Coating- our proprietary coating system is a high-temperature coating impervious to wear from the elements. From the brutal winters of the Northeast USA to the tropical conditions of the Caribbean, our coatings handle virtually every climate Mother Nature has to offer.

Preconfigured Laptop For Dedicated Sign Control- every display we ship includes a preconfigured laptop for dedicated sign control. Laptops are preloaded with software, animations libraries, training videos and training manuals.

LED message centers are the best way to differentiate a business or organization from their competition. Along with creating a strong market presence, they maintain a professional image and achieve an advertising impact that is second to none. Choosing an LED pitch is as important as making the decision to buy a sign. Purchasing a sign with the wrong pitch will minimize the effects of the investment. Below is a basic guide to help understand LED signs.

Pixel - Individual LED's grouped together make a pixel. There could be one LED or ten in a pixel. The determining factor of a pixel's clarity is it's pitch.
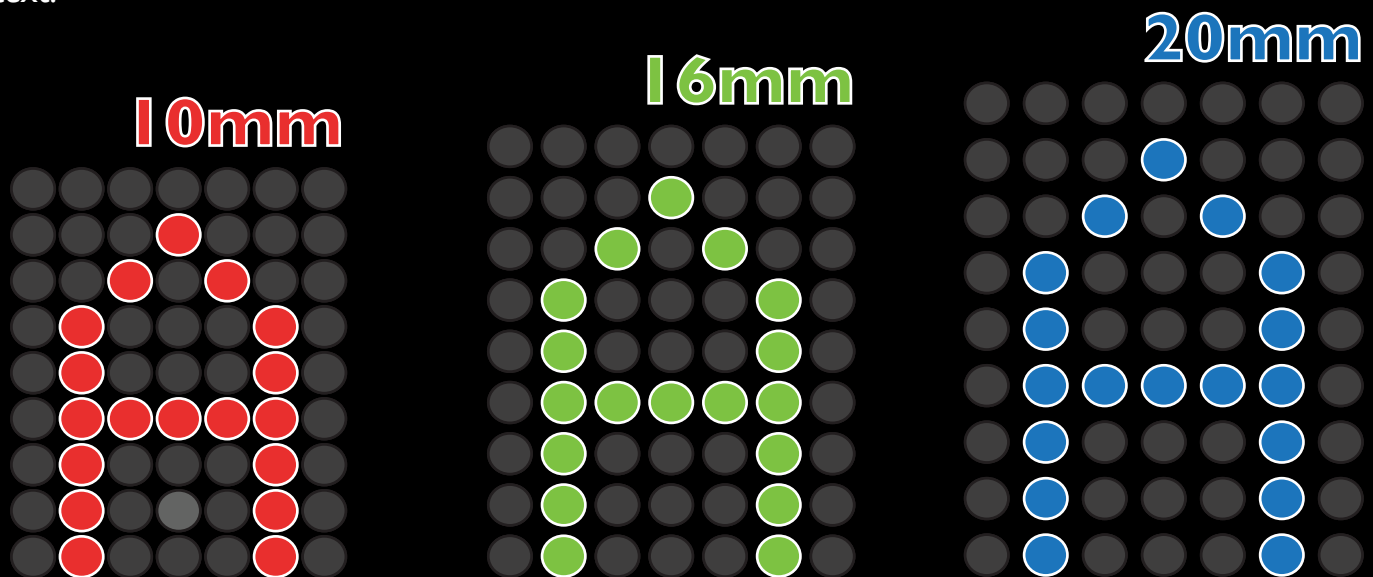
Pixel Pitch - The pitch is the distance in millimeters from one pixel to the next. The pitch determines the matrix and image crispness.

Below are some industry standard pitches along with descriptions of their capabilities.

10mm - Higher resolution, very vivid colors, excellent detail, lifelike color and clarity. Designed for the display of video, animation, complex logos, images and text.

16mm - High resolution, very vivid colors. Designed for the display animation, logos, images and text.

20mm - Great resolution with bright colors. Designed for the display of basic animation, logos, images and text.

10mm

16mm

20mm

LED Sign Basics(Part 2)

Matrix
The matrix of a sign is the amount of pixels tall by pixels wide. The matrix of a sign should be considered when comparing two different brands of signs. Remember, two signs that are the same size may not have the same matrix, thus not having the same display capabilities of text, images and animations.
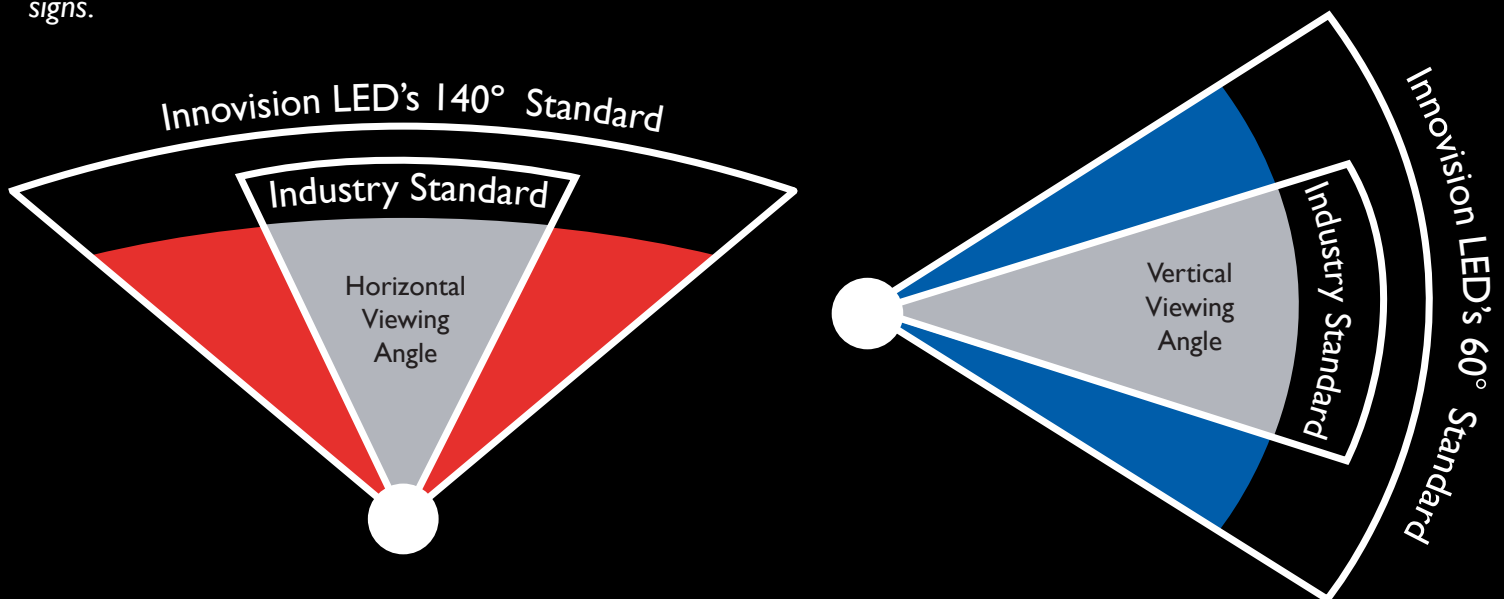
Viewing Angle
The viewing angle of an LED is the angle at which the brightness of an LED is halved. An LED is at full brightness when you look at it straight on from the center of the sign. If the brightness is halved by moving 30° to either side of the sign, then the viewing angle is twice that, equaling 60°. Below is a visualization further explaining this concept.

Reading Angle
The maximum angle to the left or right of an LED sign that the message is viewable. Reading angle varies greatly, based on ambient light and other environmental factors.

The information contained on these pages is just a beginner's guide to understanding the many different aspects of selecting an LED sign. Your knowledgeable Innovision representative is the best resource for fully understanding LED signs.

Innovision LED's 140° Standard

Industry Standard

Horizontal Viewing Angle

Innovision LED's 60° Standard

Industry Standard

Vertical Viewing Angle

What Should Your Sign Do?

Single color or full color display?

Text? Photos? Video?

How many lines of text?

What type of content is allowed in the community?

Who Is Watching?

Pedestrian Traffic (on foot)

City Traffic (20-45 mph/less than 100 feet)

Highway Traffic (45-75mph/greater than 100 feet)

Understanding the Needs of the Display

Every customer is unique. Understanding the needs of your customer will not only maximize your customer's investment, but help drive sales in many types of markets

Considering Your Audience

Different types of audiences require different display pitches and sizes.

SCo Series

Our Single Color Outdoor Series is available in a pitch of 10 mm to 20mm and comes standard with greyscale capabilities. Ask your representative for your specific

	10mm	16mm	20mm
Pixel Density(dots/sqFt)	947	370	237
Horizontal Viewing Angle	150°	150°	150°
Vertical Viewing Angle	70°	70°	70°
Brightness(NITs)	4,000	5,000	5,000
Minimum Viewing Distance	15Ft	32.5Ft	49Ft
Refresh Rate	>900Hz	>900Hz	>900Hz
Levels of Grey Scale	4,096	4,096	4,096
LED Encapsulation	DIP Oval	DIP Oval	DIP Oval
Pixel Composition	2 Red	2Red or 2 Amber	2 Red
Brightness Adjustment	Manual/Auto	Manual/Auto	Manual/Auto
Cabinet IP Rating(F/R)	IP65/IP54	IP65/IP54	IP65/IP54
Data Connection	CAT5e/ Fiber Optic	CAT5e/ Fiber Optic	CAT5e/ Fiber Optic
Life: Full(Hours)	50,000	50,000	50,000
Life: Typical Use(Hours)	100,000	100,000	100,000
Temperature Range	-20° to 140°F	-20° to 140°F	-20° to 140°F

FCo Series

Our Full Color Outdoor Series is available in a pitch of 6 mm to 25mm. Ask your representative for your specific application needs.

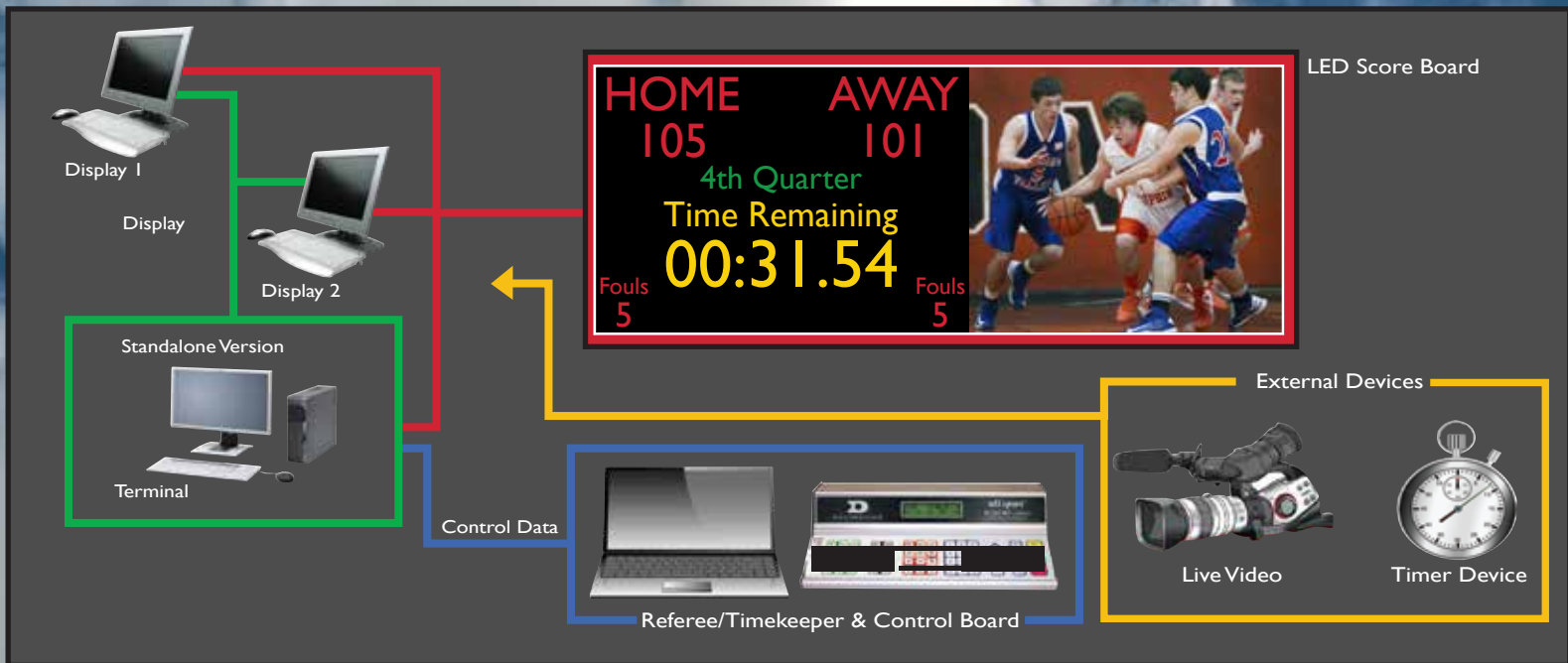|	6mm	10mm	16mm	20mm
Pixel Density(dots/sqFt)	2630	947	370	237
Horizontal Viewing Angle	150°	150°	150°	150°
Vertical Viewing Angle	150°	70°	70°	70°
Brightness(NITs)	6,500	9,500	10,000	10,000
Minimum Viewing Distance	10Ft	15Ft	32.5Ft	49Ft
Refresh Rate	>900Hz	>900Hz	>900Hz	>900Hz
Video Frame Rate	60fps	60fps	60fps	30/60fps
Colors	1.09 trillion	549 billion	549 billion	549 billion
Shades per Color	1,024	65,356	65,356	65,356
LED Encapsulation	SMD	DIP Oval	DIP Oval	DIP Oval
Pixel Composition	1R,1G,1B	1R,1G,1B	2R,1G,1B	2R,1G,1B
Brightness Adjustment	Manual/Auto	Manual/Auto	Manual/Auto	Manual/Auto
Cabinet IP Rating(F/R)	IP65/IP54	IP65/IP54	IP65/IP54	IP65/IP54
Data Connection	CAT5e/ Fiber Optic	CAT5e/ Fiber Optic	CAT5e/ Fiber Optic	CAT5e/ Fiber Optic
Life: Full(Hours)	50,000	50,000	50,000	50,000
Life: Typical Use(Hours)	100,000	100,000	100,000	100,000
Temperature Range	-20° to 140°F	-20° to 140°F	-20° to 140°F	-20° to 140°F

FCi Series

Our Full Color Indoor Series is available in a pitch of 4 mm to 16mm. Ask your representative for your specific application needs.

6mm

Pixel Density(dots/sqFt)	2630
Horizontal Viewing Angle	150°
Vertical Viewing Angle	150°
Brightness(NITs)	2,000
Contrast Ratio	2,000:1
Minimum Viewing Distance	6ft
Refresh Rate	3,000Hz
Colors	1.09 trillion
Shades per Color	1,024
LED Encapsulation	SMD
Pixel Composition	1R,1G, 1B
Brightness Adjustment	Manual/Auto
Cabinet IP Rating	IP43
Data Connection	CAT5e/ Fiber Optic
Life: Full(Hours)	50,000
Life: Typical Use(Hours)	100,000
Temperature Range	-4° to 140°F

LED Score Board

HOME   AWAY
105   101
4th Quarter
Time Remaining
00:31.54
Fouls   Fouls
5   5

Display 1

Display

Display 2

Standalone Version

Terminal

Control Data

External Devices

Live Video   Timer Device

Referee/Timekeeper & Control Board

Features:

-Highly customizable competition information management - customize layouts, team names, player information, logos, fonts and colors

-Display text, pictures, movies and live video feeds simultaneously. Switch between media types seamlessly

-Event recording - all live video feeds are recorded automatically for instant video playback

-Supports these exciting sports:

Football	Basketball	Baseball
Hockey	Soccer	Volleyball
Tennis	Boxing	Wrestling
Track & Field	Martial Arts	Swimming

CSM Software

Our competition score management system can be used in conjunction with any of our full color or single color LED displays. Never before has turning a message center into a full feature scoreboard been as simple as our CSM system. By using our simple software interface you can keep track of sporting event scores, display instant replays and videos, and sponsored advertisements all with a seamless solution on one display. When the sporting event is over, use the scoreboard as a full function message center to display sponsored advertisements and information.
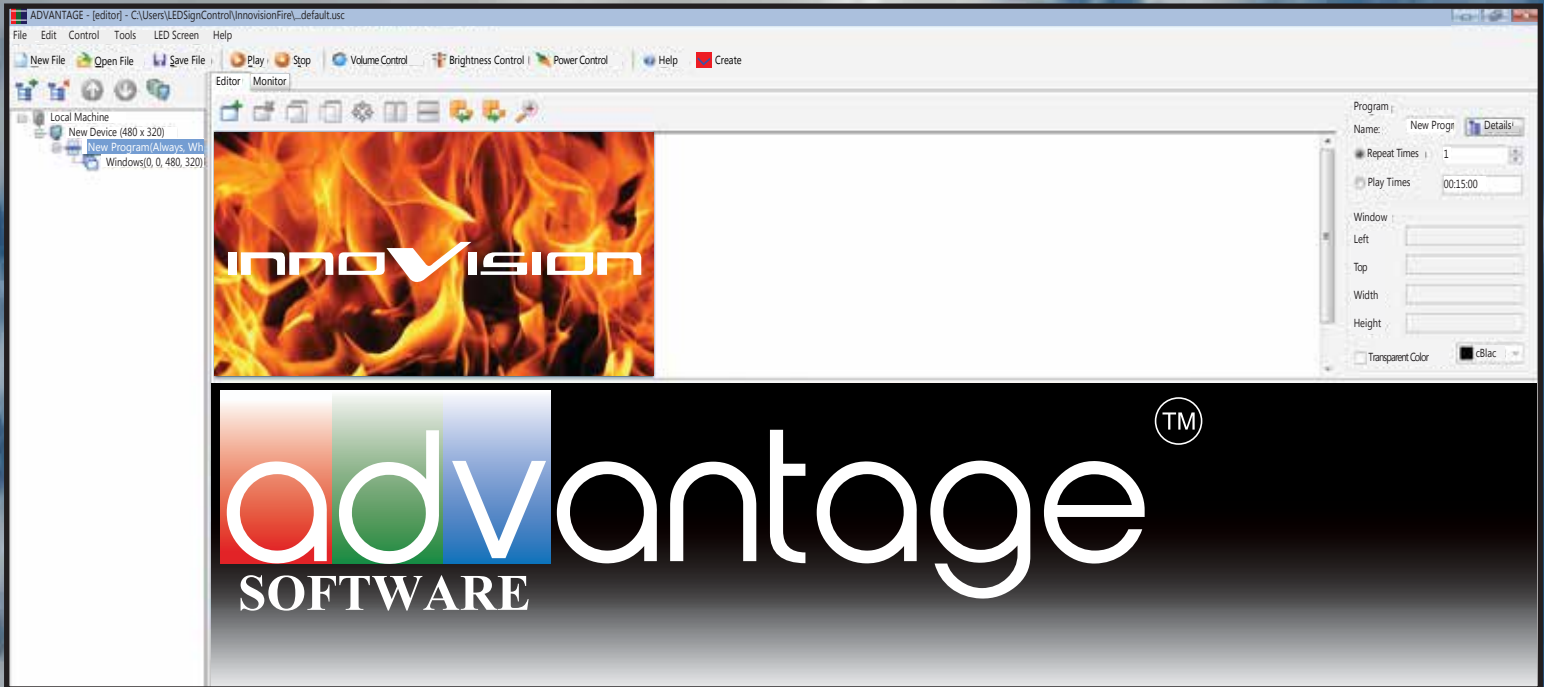
GPs Series

Our LED price changers and time and temperature units are available in sizes ranging from 8 to 60 inches tall. Ask your knowledgeable sales representative for more details.

Viewing Angle	150°
Life(Typical Use)	100,000 hours
Available Colors	Red - 630nm
	Amber - 592nm
	White - 577nm
	Green - 526nm
	Blue - 470nm
Special Features	Automatic Intensity Adjustment(8 levels)
	Non-Volatile Memory(stores last message displayed)
Communications	Wireless RF Keyboard(1500 feet)
	TCP/IP Control
Operating Voltage	110-220VAC
Product Approval	-20° to 140°
Cabinet Color	Black
Safety Listing	ETL
Warranty	5 Years

Font Support	All local True Type Fonts(TTF)
Multi-Display Control	Deploy content to multiple displays at one time
Effects Library	Thousands of preloaded effects & animations
Transitions	Entry & exits effects that allow smooth changes between layouts
Advanced Scheduling	365 day scheduling
Importable File Types	AVI, MPEG, MP4(animation/video), PPT, PNG, BMP, GIF, JPG, TIF, TIFF(static images)
Content	Quickly & easily manage your schedule by creating & previewing content effortlessly
Effects Editor	Every element is a separate layer with individually controlled effects, transitions and duration of appearance in the show

Advantage Software

Create captivating content quickly and easily with our Advantage Software Package. Ease of use and functionality make this package the ideal choice for all skill levels. Utilizing the training videos and literature provided, users can be up and running creating dazzling content in no time.

5 Years
Of Protection

5 Years of Protection

Even our warranty is among the best in the LED sign industry. Not only do we offer a comprehensive warranty on parts, but also offer a 5 year warranty on labor.

Innovision Five Year Limited Warranty

Since we use the best components to build the best signs in the industry, we stand behind our products with the best warranty. That's why you won't find many other LED sign manufacturers offering a five year warranty on parts, with an optional warranty on labor.

Our name says it all - an innovative vision of the future , derived from the relentless pursuit of perfection by proud American employees and backed by years of research and rugged testing. When it comes to standing behind our product, Innovision is THE best in the industry.

Industry Best Five Year Warranty covers:

Parts:
- **All Innovision manufactured components**
- **All LED board assemblies**
- **All power supplies**
- **All embedded electronic controls**

Labor:
- **Affordable & fully-guaranteed during the contract period**
- **Covers repair and trip charges up to $3,000 per occurrence**
- **Unlimited occurrences during contract period**
- **One point of contact for technical, diagnostic and service dispatch needs**
- **Transferable to a new owner at no cost**

Notes:

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LED

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