

FREE CONSULTATION FOR YOUR LED DISPLAY PROJECT

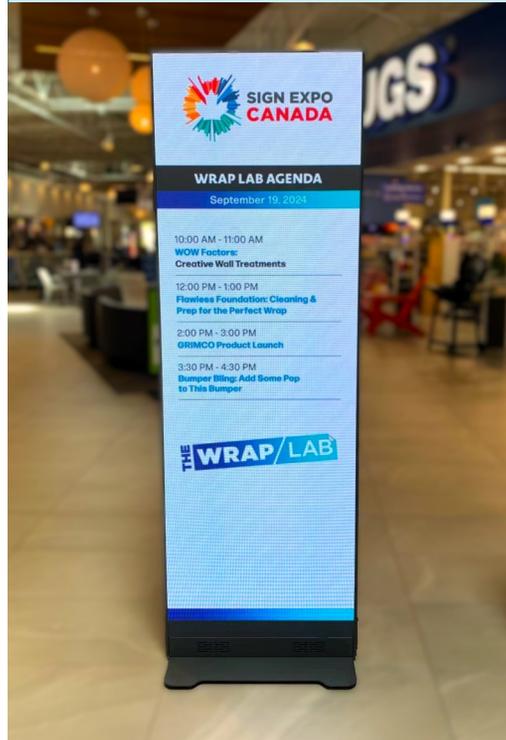
Leader LED Ontario Sign Group offers free, no-obligation consultations to help businesses plan their LED display projects with confidence. Our Ontario-based team provides expert guidance on selecting the right pixel pitch, brightness level, size, and control system based on your viewing distance, environment, and content needs. We assess site conditions, discuss structural and electrical requirements, and recommend the most cost-effective solution for long-term performance. With over 15 years of industry experience, we help clients avoid common pitfalls and make informed decisions that maximize visibility, reliability, and return on investment.



Leader LED Ontario Sign Group

240 Bayview Dr.
Barrie, Ontario
L4N 4Y8

Phone: 647-395-8882
E-mail: sales@leaderledontario.com



6'x2' Standalone LED Poster
(multiple pixel pitch options available)



LEADER LED | CORE SIGNS | GREEN PLUS

LED Video Wall and Posters



Leader LED Ontario
Sign Group
Your Local LED display expert



LED Video Wall

Micro-pitch LED video walls—especially those built with COB (Chip-on-Board) technology—deliver an exceptionally cost-effective path to achieving true 4K and 8K visual performance in commercial environments. By placing LED chips directly onto the substrate, COB modules offer dramatically improved pixel density, uniformity, and durability compared to traditional SMD designs. This allows large-format displays to achieve ultra-fine pixel pitches while maintaining excellent brightness, contrast, and color accuracy. The seamless surface reduces moiré and enhances close-range viewing, making COB ideal for boardrooms, control rooms, retail environments, and premium digital signage. Its robust encapsulation also provides superior resistance to impact, dust, and humidity, extending lifespan and reducing maintenance. Combined with lower power consumption and simplified installation, micro-pitch COB LED walls deliver a high-end visual experience at a significantly lower total cost of ownership than LCD video walls or projection systems.

HOW TO SELECT A PROPER VIDEO WALL FOR YOUR BUSINESS

Planning and selecting an LED video wall requires a structured approach to ensure the system meets visual, technical, and operational needs while staying within budget. The first step is defining the viewing distance and application—these determine the appropriate pixel pitch, brightness level, and display size. Close-range environments such as boardrooms or control rooms benefit from micro-pitch or COB modules, while retail, lobbies, and public spaces may require larger pitches with higher brightness. Next, evaluate the installation environment, including ambient light, mounting structure, ventilation, and service access. Front-service modules are ideal for tight spaces, while rear-service designs suit open installations.

Content strategy is equally important. Understanding whether the display will show text, video, dashboards, or advertising helps determine resolution, aspect ratio, and control system requirements. A reliable controller and CMS ensures smooth playback, remote management, and long-term scalability. Power consumption, heat management, and maintenance access should also be factored into total cost of ownership. Finally, prioritize vendors who offer local support, fast turnaround, and proven installation experience, as these elements significantly reduce downtime and ensure long-term performance.



Specifications of commonly used LED pixel pitches

Pixel Pitch	Typical Resolution Density	Ideal Viewing Distance	Brightness Range	Common Applications	Key Advantages
Po.9 mm	Extremely high density (~1.2M pixels/m ²)	3–6 ft	600–800 nits	Control rooms, broadcast studios, premium boardrooms	Near-perfect retina clarity, ideal for 4K/8K walls in smaller spaces
P1.2 mm	Very high density (~700k pixels/m ²)	5–8 ft	600–800 nits	Corporate lobbies, command centres, high-end retail	Excellent detail with lower cost than Po.9
P1.5 mm	High density (~440k pixels/m ²)	7–12 ft	800–1000 nits	Meeting rooms, signage, museums	Strong balance of clarity and affordability
P1.8 mm	Medium-high density (~300k pixels/m ²)	10–16 ft	800–1200 nits	Public spaces, auditoriums, digital signage	Cost-effective option for larger displays