

DB-620

Superior visual performance in all outdoor conditions, 20mm, 7,600 NIT, 672 ft²



World-class image processing and LED innovation

Integrated visualization features, set DB-620 years ahead of the competition. No other outdoor LED screen comes close. System Color Signature (x, y, Y)

- Built-in intelligence monitors LED color signature, temperature thresholds, and overall runtime.
- Proprietary image processing produces sharp, brilliant images unmatched by industry competition.
- Component selection and layout minimizes heat distribution and operating temperature.

Integrated color, contrast and brightness

- 16-bit processing generates 281 trillion colors for true color reproduction, year after year.
- 4,000:1 contrast ratio tempers screen brightness into sharp, focused images whether up close or far away.
- 7,600 NIT guarantees the screen stays brighter, providing 100,000 hours of continuous use.

Smart shaders

- Modular shaders protect LEDs from harm and are field-replaceable when damaged or adjusting black levels.

- Light traps deflect external light, minimizing the "washout effect."
- Unique geometry drains rainwater, preventing visual obstructions.

Reliability and service

- Redundant power system maintains power in the event of tile failure.
- Intelligent diagnostic features allowing remote monitoring via the web.
- Front-accessible and hot swappable tiles guarantee quick replacement and virtually zero downtime.

Service beyond the warranty

- 24/7 technical support
- 4-hour onsite response
- Pro-active service monitoring
- Annual preventive maintenance
- Repair, replace or exchange
- 20 U.S. service centers
- Worldwide partners

Environmentally responsible and community friendly

- Ambient environment controller continuously detects light conditions and automatically adjusts screen brightness.
- Tilted LED configuration reduces light pollution by 26% and directs 37% more brightness toward targeted viewing areas.
- FCC and ETL certified for safe use in all global regions
- PFC - Reduces mains harmonics and mitigates electrical impact on power networks, improving stability while conserving energy.
- RoHS - All components contain no lead, mercury, cadmium, Cr6, PBB, or PBDE)
- EMC - Operates in a self-contained electromagnetic field, unaffected by surrounding electrical devices, and causing no interference to other devices (cell phones, medical devices, vehicle safety features, etc.).
- Efficient components last longer, produce less heat, and require no HVAC, resulting in considerably less power.

Product specifications**DB-620****General specifications**

Pixel pitch	20 mm
Resolution	208 x 720
Calibrated Brightness	7,200 nits measured perpendicular to the display
LED configuration	1R, 1G, 1B
LED density	7,500 / m ²
Hor. viewing angle	140° (+/-70°)
Vert. viewing angle	55° (+15°/-40°)
Commercial size	14' x 48'
Dimensions (physical)	14'3" x 47'9" (4.4m x 14.6 m)
Dimensions (visual)	13'7" x 47'3" 4.2 m x 14.4 m
Contrast ratio	4000:1
Lifetime	100,000 hours
Power consumption	24,000 W (max)
Weight	8,775 lbs 3,980 kg (excluding clamps)
Processing	16 bit per color
Colors	281 trillion
Power (1Ph / 240V)	100 Amps
Power (3Ph / 208V)	67 Amps
Operating temperature	-31 to 122° F (-35 to 50°C)
Serviceability	Front access

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