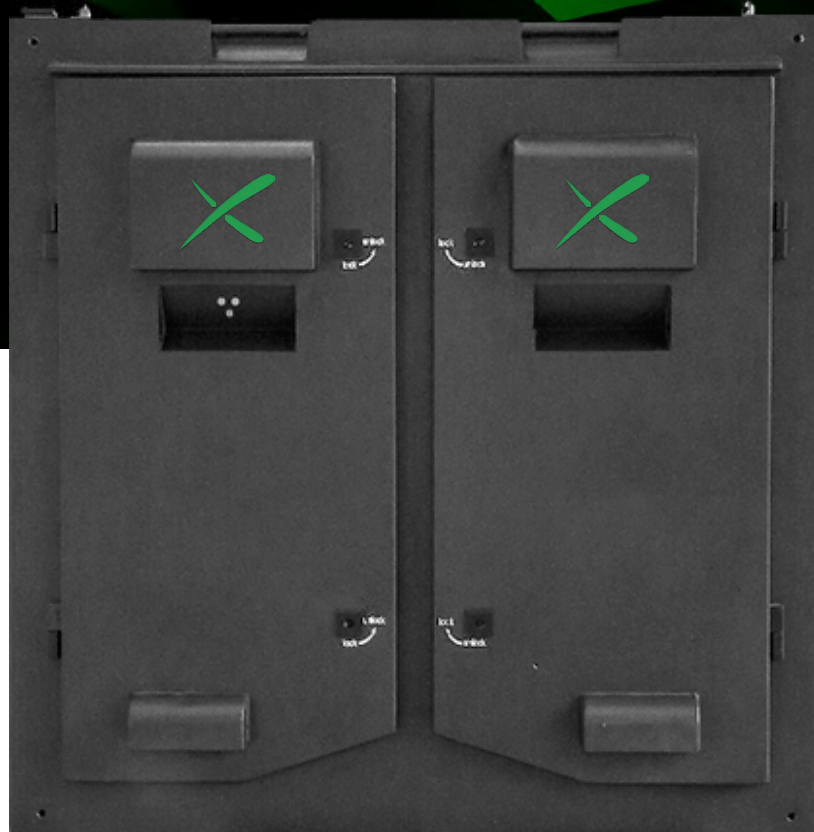


HYDROGEN

SCOREBOARD

CUSTOMIZABLE OUTDOOR LED SCOREBOARD





OVERVIEW

The HYDROGEN SCOREBOARD is our industry-standard and most accessible cabinet. It's a highly customizable product, able to fit all kinds of LED scoreboard projects in many environments. Most of the HYDROGEN SCOREBOARD's components are changeable or customizable, from the structure to the electronics. The many options available make this LED cabinet one of the most adaptable products in our range.



APPLICATION
Outdoor



BRIGHTNESS
≤ 6000 NITS (LED TYPE SMD)



INGRESS PROTECTION
IP65 (front) / IP54 (arrière)



WEIGHT
40 - 50 kg/sqm



PIXEL PITCH
P5 P6 P8 P10



MATERIAL
Reinforced steel



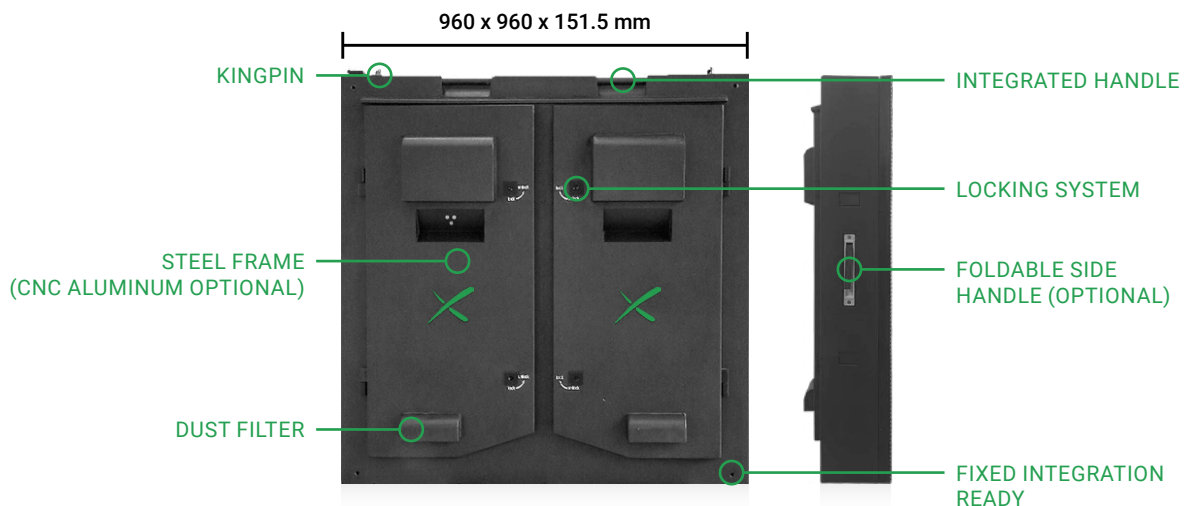
DISPLAY AREA (W x H)
960 x 960 mm (modulo 320)



MAINTENANCE
Back maintenance (front opt.)



FEATURES



CUSTOM CABINETS

The HYDROGEN SCOREBOARD can be made of steel or CNC aluminum depending on the project. Steel cabinets, mostly dedicated to fixed LED applications, are heavy but robust, with a long li-

fespan. However, some projects require a lighter product, which is why we also sell CNC aluminum cabinets that weigh up to 20% less than steel cabinets.



BACKDOOR LOCKING SYSTEM



HYDRAULIC SYSTEM (OUTDOOR)



+/-10° CURVES (OPTIONAL)

WATERPROOFING

Upon request, we can implement additional waterproof protections on the power and data connectors, locking system, and wiring, ensuring a dry and flawless cabinet no matter the environment. Using car sealing protection for the back doors of the HYDROGEN SCOREBOARD insures 100% waterproof protection.



MODULES

The HYDROGEN SCOREBOARD modules come in various dimensions to better fit any requirement. With a wide range of pixel pitches using SMD or DIP LEDs, the modules are optimized with protection masks (optional for indoor versions) for better resilience and better contrast.

MAINTENANCE

Most of the HYDROGEN SCOREBOARD cabinets can be maintained from the front or from the back. The outdoor versions come with a hydraulic system that

gives access to the power box from the front, and magnetic modules can be implemented upon request.



DIFFERENT FRAME TYPES



OPEN FRAME

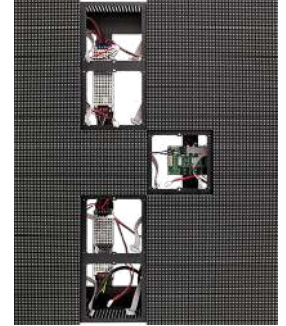


BACKDOORS

MAINTENANCE MODE



HYDRAULIC SYSTEM



MAGNET SYSTEM

ELECTRONICS

The HYDROGEN SCOREBOARD is fully EMC compliant, with cable management following the AWG (American Wire Gauge) guidelines. Line filters protect the power supply from power surges

with safety earthing. Other optional electronic features are also available, such as monitoring boards, light sensors for power efficiency, and a 3G control system.



INTEGRATION

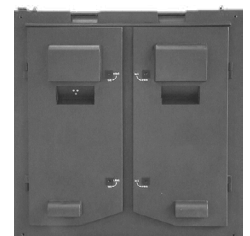
The integration of the HYDROGEN SCOREBOARD can be done in many different ways. Because of the cabinet's weight, this process requires several technicians, yet it offers multiple possibilities such as wall integration, hanging, stacking, and more else. Once integrated, the HYDROGEN SCOREBOARD LED display makes for a sturdy and durable installation.

CURVE AND 90° OPTIONS

Upon request, we can provide HYDROGEN SCOREBOARD cabinets designed to allow +/-10° curves or 90° angles. This adds yet more possibilities to fit your custom LED display project.



SIZE CUSTOMIZABLE ON DEMAND



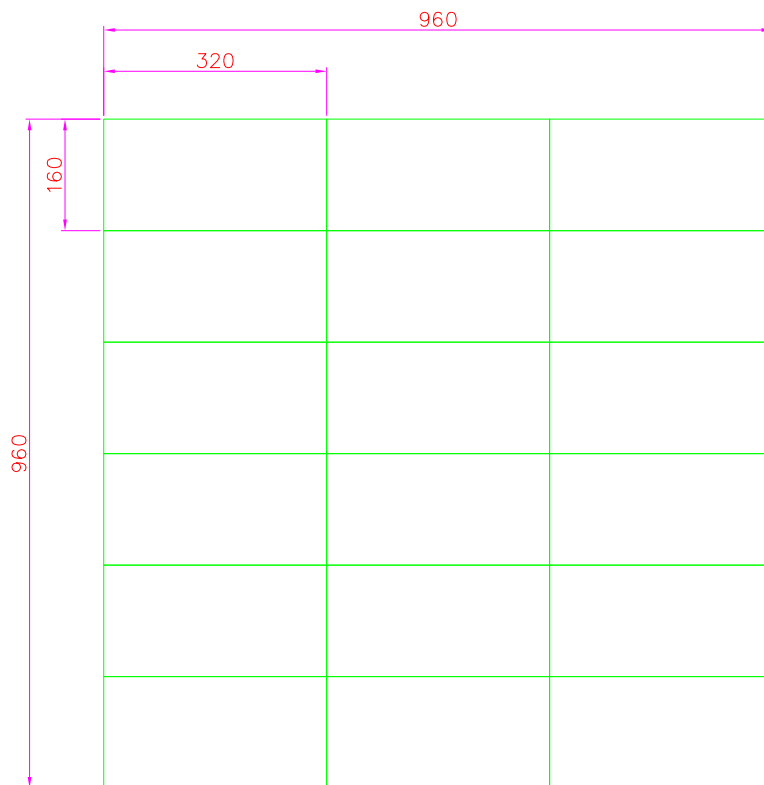
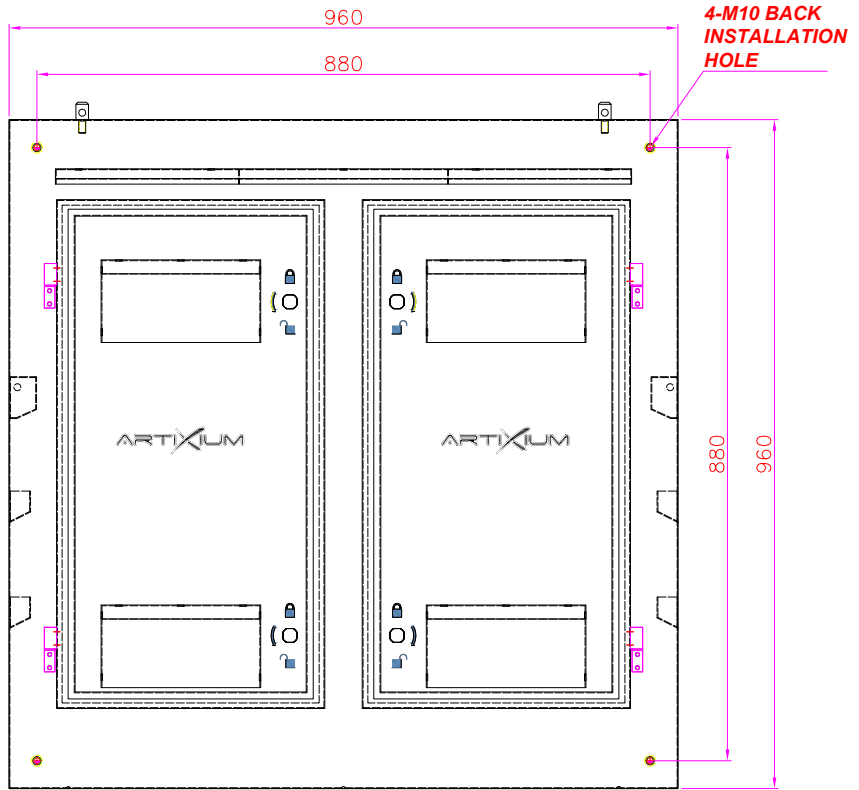
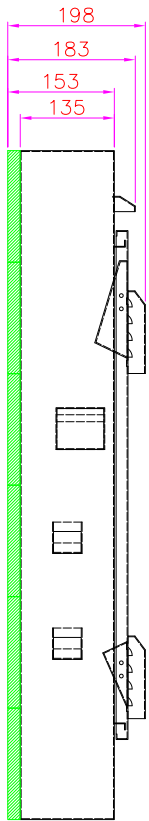


TECHNICAL SPECIFICATIONS

| | | OUTDOOR | | | |
|--|--------|--|----------------|----------------|---------------------------------|
| Product Parameters | Unit | 5 | 6 | 8 | 10 |
| Pixel Pitch | mm | 5,00 | 6,00 | 8,00 | 10,00 |
| LED | | SMD2727 3in1 (Black Face) | | | SMD3535 3in1 (Black Face) |
| Application | | Outdoor Sport LED Scoreboard | | | |
| Ingress Protection | IP | IP65 (front) / IP54 (rear) | | | |
| Brightness | cd/sqm | ≤ 6000 Nits @5volts | | | |
| Color Temperature after calib (adjustable) | deg. K | 6500 | | | |
| Viewing Angle (50% brightness) | deg. | 140(+/-70) H / 140 V | | | |
| Cabinet Size (WxHxD) | mm | 960 x 960 x 198 | | | |
| Display area (WxH) | mm | 960 x 960 | | | |
| Module Size (WxHxD) | mm | 320 x 160 x 25 / 160 x 160 x 25 | 192 x 192 x 25 | 320 x 320 x 25 | 320 x 160 x 25 / 160 x 160 x 25 |
| Pixel Matrix Per Cabinet (WxH) | px | 192 x 192 | 160 x 160 | 120 x 120 | 96 x 96 |
| Pixel Matrix Per Module (WxH) | px | 64 x 32 / 32 x 32 | 32 x 32 | 40 x 40 | 32 x 16 / 16 x 16 |
| Pixel Density | px/sqm | 40000 | 27778 | 15625 | 10000 |
| Weight | kg/sqm | 45 | | | 40 |
| Cabinet Material | | Reinforced steel | | | |
| Maintenance Mode | | Back only (Front optional) | | | |
| Mask specification | | 95% Plastic + 5% Fiber / Clip type (no screws) / Shaders | | | |
| Contrast Ratio | | High | | | |
| Grey scale (linear) | bit | 16 | | | |
| Brightness control | bit | 16 | | | |
| Processing depth | bit | 16 | | | |
| Color | | 281 Trillions | | | |
| Display Refresh Rate | Hz | 3840 | | | |
| Operation Power | V | AC85-230V | | | |
| Max. Power Consumption | W/sqm | 900 | | | |
| Average Power Consumption | W/sqm | 300 | | | |
| Control Mode | | Synchronization | | | |
| Video Frame Rate | Hz | 50/60Hz | | | |
| Input Types Supported | | DVI / SDI / HDMI | | | |
| 3D ready (optional) | | yes | | | |
| Calibration | | yes | | | |
| Lifetime (50% brightness) | h | 50000 | | | |
| Operating Humidity Range | | 10-95% | | | |
| Operating Temperature Range | | -20°C / +60°C | | | |
| Screen Uniformity Correction | | - | | | |
| Certification | | CE / ETL / CCC | | | |
| Available options | | Aluminium cabinet / Front access modules / Front access by Hydraulic / Hanging bars Curved cabinet / 90° Angles / Neutrik outdoor connectors / Size can be customised | | | |
| Compatibility | | Cabinets mechanically compatible with each other | | | |



TECHNICAL DRAWINGS





CONTACT

The Artixium regional branches are the key for the growth and development of our global network all over the world. Artixium's team is a spectrum of different nationalities and cultures, reflecting their global presence and mindset, mak-

ing their communication smooth and hassle-free with clients from all around the world. Customer care, Innovation and flexibility has always been our values and we intend to keep this reputation for many years to come.

ARTIXIUM FRANCHISES

"From your project's conception to its completion."



112 Avenue Franklin Roosevelt
69120 Vaulx-en-Velin
France



Artixium Operational Center
518000 Shenzhen
China




Weissensteinstrasse 90b,
46149 Oberhausen
Germany




Merkez Mah. Baglar Cad. A
Blok Apt. No: 14D/13 Kagithane, Istanbul
Turkey




 www.artixium.com

 0 428 001 801

 [linkedin.com/company/artixium](https://www.linkedin.com/company/artixium)

 twitter.com/artixium

 contact@artixium.com

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Since its creation in 2012 by two european entrepreneurs, Artixium has been evolving and always looking for innovative ways to contribute to the digital transition of our world. It only took a few years for Artixium to become a key player in the LED display industry.

www.artixium.com