CUSTOMIZABLE INDOOR & OUTDOOR LED DISPLAY



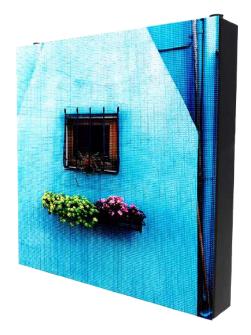






OVERVIEW

The HYDROGEN is our industry-standard and most accessible cabinet. It's a highly customizable product, able to fit all kinds of LED applications in many environments. Most of the HYDROGEN'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.

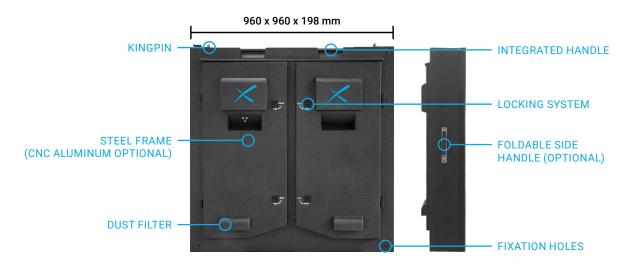


- APPLICATION Indoor / Outdoor
- INGRESS PROTECTION
 IP41 (indoor)
 IP65 (outdoor)
- PIXEL PITCH
 P4 P5 (indoor)
 P3 P4 P5 P6 (outdoor)
 P6.6 P8 P10 (outdoor)
- DISPLAY AREA (W x H) 960 x 960 mm 576 x 576 mm (P3) 768 x 768 mm (P4) 1024 x 768 mm (P4)

- BRIGHTNESS
 ≤ 2000 NITS (indoor)
 ≤ 6000 NITS (outdoor)
- WEIGHT
 40 50 kg/sqm
- MATERIAL Reinforced steel
- MAINTENANCE
 Back & front maintenance
 (indoor)
 Back maintenance (front opt. outdoor)



FEATURES



CUSTOM CABINETS

The HYDROGEN 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 lifespan. 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.

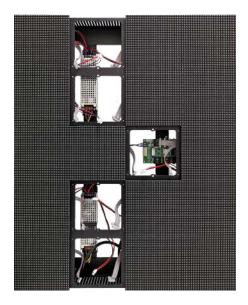


WATERPROOFING

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 insure 100% waterproof protection.

MODULES

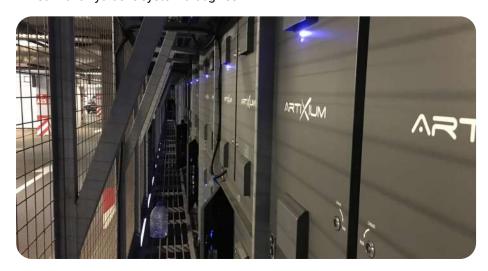
The HYDROGEN modules come in various dimensions to better fit any requirement. With a wide range of pixel pitches using SMD or DIP LEDs, the modules are optimized with protection masks (optional for indoor versions) for better resilience and better contrast.



MAINTENANCE

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

access to the power box from the front, and the P5 to P16 outdoor versions can be provided with magnetic modules.



DIFFERENT FRAME TYPES

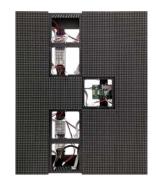






MAINTENANCE MODE





OPEN FRAME BACKDOORS

HYDRAULIC SYSTEM

MAGNET SYSTEM

ELECTRONICS

The HYDROGEN 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.

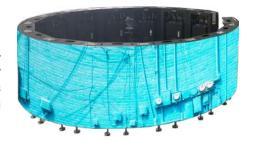


INTEGRATION

The integration of the HYDROGEN 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 LED display makes for a sturdy and durable installation.

CURVE AND 90° OPTIONS

Upon request, we can provide HY-DROGEN 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

		INDOOR						
Product Parameters	Unit	4	5					
Pixel Pitch	mm	4,00	5,00					
_ED		SMD2020 3in1 (Black Face)	SMD2020 3in1 (Black Face)					
Application		Affordable and customizable integration						
ngress Protection	IP	IP41						
Brightness	cd/sqm	≤ 2000 Nits @5volts						
Color Temperature after calib (adjustable)	deg. K	6500						
Viewing Angle (50% brightness)	deg.	140(+/-70) H / 140 V						
Cabinet Size (WxHxD)	mm	768 x 768 x 198	960 x 960 x 198					
Display area (WxH)	mm	768 x 768	960 x 960					
Module Size (WxHxD)	mm	256 x 128	320 x 160					
Pixel Matrix Per Cabinet (WxH)	рх	192 x 192	192 x 192					
Pixel Matrix Per Module (WxH)	рх	64 x 32	64 x 32					
Pixel Density	px/sqm	62500	40000					
Neight	kg/sqm	50						
Cabinet Material		Steel + CNC						
Maintenance Mode		Front and back (tools required for front)						
Mask specification		95% Plastic + 5% Fiber / SS 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	600						
Average Power Consumption	W/sqm	200						
Control Mode		Synchronization						
/ideo Frame Rate	Hz	50/60Hz						
nput Types Supported		DVI / SDI / HDMI						
BD ready (optional)		Yes						
Calibration		Yes						
Lifetime (50% brightness)	h	50000						
Operating Humidity Range		10-95%						
Operating Temperature Range		-10°C / +50°C						
Screen Uniformity Correction								
Certification		CE / ETL / CCC						
Available options		Aluminum, Neutrik connectors, customizable size, curved, open frame available						
Compatibility		No						





TECHNICAL SPECIFICATIONS

		OUTDOOR									
Product Parameters	Unit					6,6		10			
Pixel Pitch	mm	3	4	5	6,00	6,67	8	10			
LED			SMD1921 (Black Face) SMD2727 3in1 (Black Face)								
Application			Affordable and customizable integration								
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	576 x 576 x 198	576 x 576 x 198 960 x 960 x 198 / 1024 x 768 960 x 198								
Display area (WxH)	mm	576 x 576	960 x 960 / 1024 x 768		960 x 960						
Module Size (WxHxD)	mm	192 x 192	320 x 160 / 256 x 128	320 x 160 / 160 x 160	192 x 192	320 x 320 x 25	320 x 320 x 25	320 x 160 / 160 x 160			
Pixel Matrix Per Cabinet (WxH)	рх	192 x 192	240 x 240 / 256 x 192	192 x 192	160 x 160	144 x 144	120 x 120	96 x 96			
Pixel Matrix Per Module (WxH)	рх	64 x 64	80 x 40 / 64 x 32	64 x 32 / 32 x 32	32 x 32	48 x 48	40 x 40	32 x 16 / 16 x 16			
Pixel Density	px/sqm	111111	62500	40000	27778	22500	15625	10000			
Weight	kg/sqm			45				40			
Cabinet Material		Steel + CNC Reinforced Steel									
Maintenance Mode		Back only (front optional)									
Mask specification		95% Plastic + 5% Fiber / SS 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	٧	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		Aluminum, Neutrik connectors, customizable size, curved									
Compatibility		No									



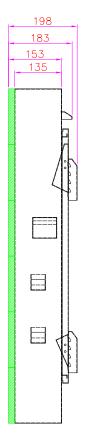


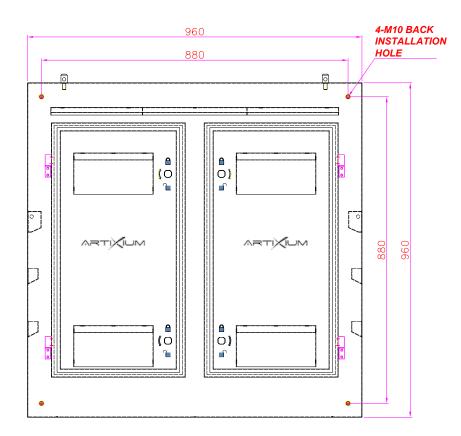
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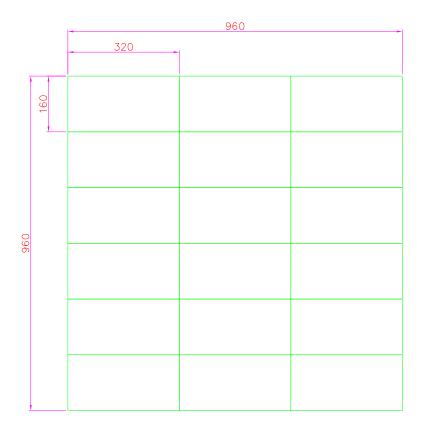


TECHNICAL DRAWINGS

960 X 960 X 198 MM









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."





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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.

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