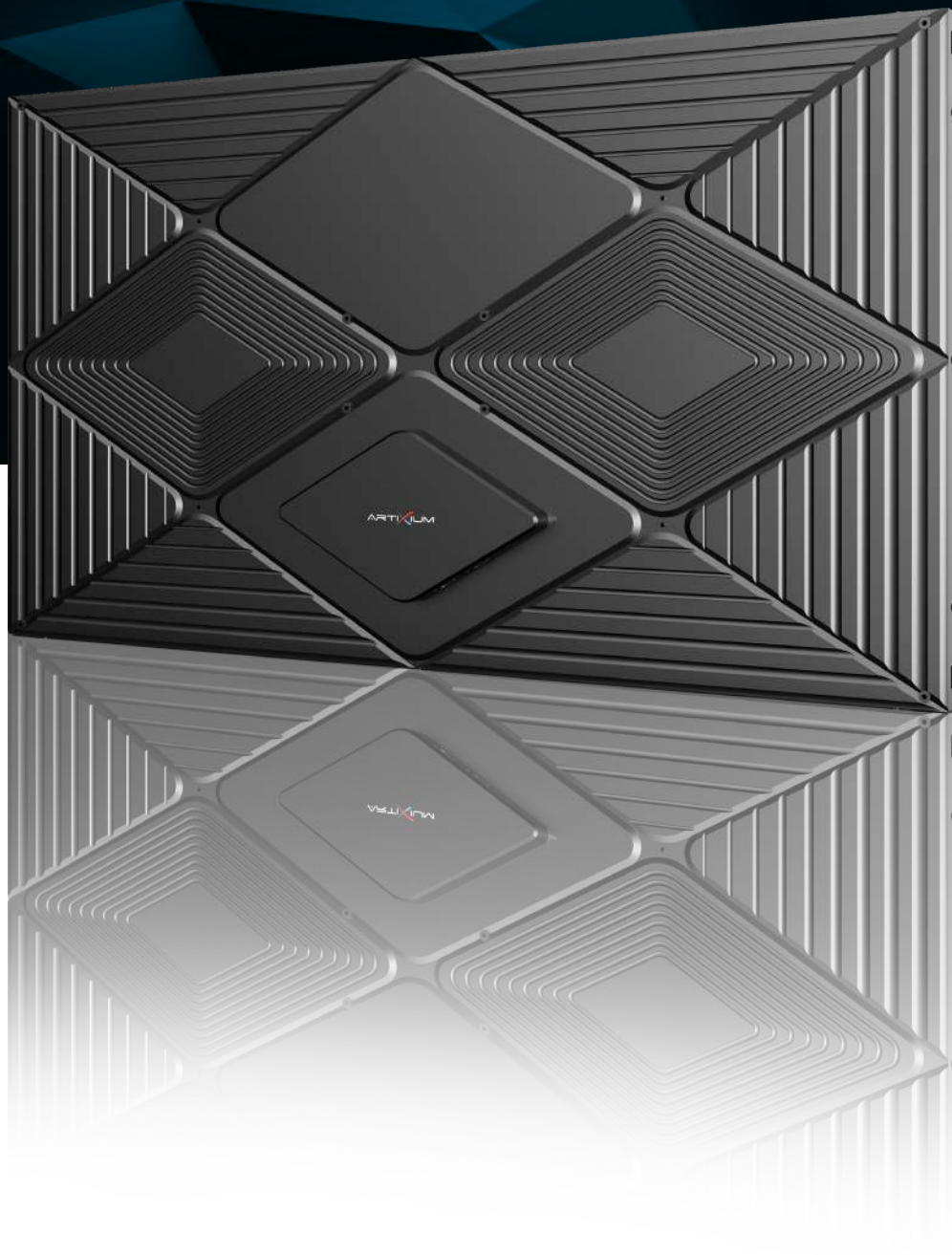




CADMIUM

HDMI ULTRA HD LED CABINET





OVERVIEW

The CADMIUM represents the most recent addition to Artixium's product line of Ultra HD LED cabinets. Characterized by its slim profile, native 16:9 cabinet ratio, fine 0.63 mm to 1.39 mm pixel pitch, and cutting-edge MIP and QCOB technology, this product stands as the pinnacle of indoor LED display technology. Notably, it boasts full HDMI cabinet connection capabilities, streamlining the wiring and configuration processes for giant Ultra HD LED displays.



APPLICATION
Indoor



BRIGHTNESS
≤ 1000 NITS @5voltz



INGRESS PROTECTION
IP30



WEIGHT
11 - 18.8 kg/cabinet



PIXEL PITCH
P0.6 P1 P1.2 P1.3



MATERIAL
Die-casting aluminum



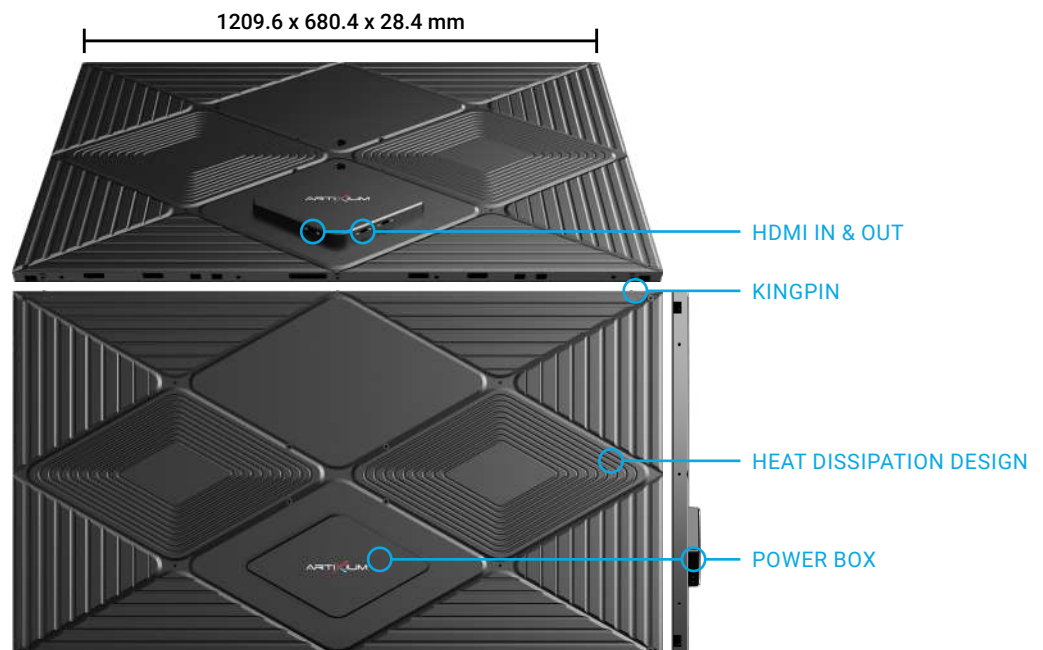
DISPLAY AREA (W x H)
960 x 540 mm (P1.2 - 43")
1020 x 573.76 mm (P1 - 46")
1209.6 x 680.4 mm (P0.6/P1.2 - 55")
1336 x 754.2 mm (P1.3 - 60")



MAINTENANCE
Front maintenance



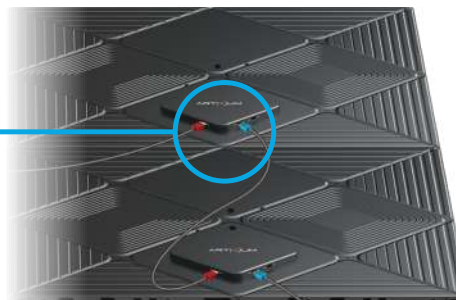
FEATURES





16:9 ULTRA HD & 4K RESOLUTION

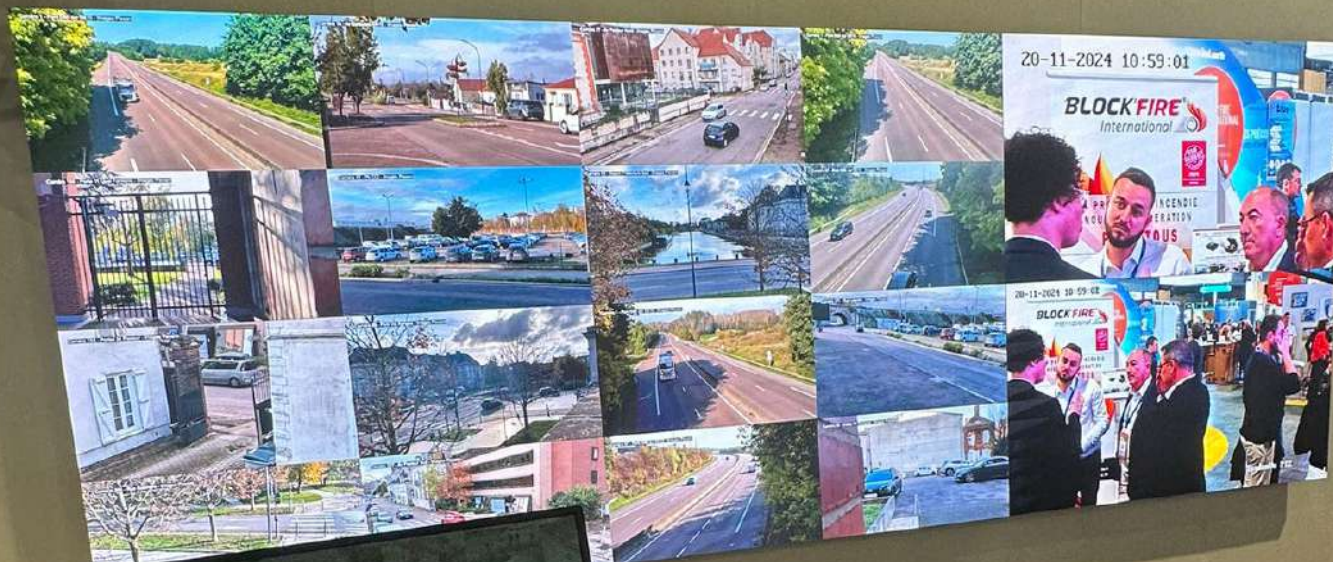
The CADMIUM features a native 16:9 ratio with a resolution of 960 x 540 pixels per cabinet, or 1920 x 1080 pixels for the P0.6 version. This implies that achieving Full HD (1920 x 1080 px) or 4K (3840 x 2160 px) requires only four cabinets. Consequently, this exceptional LED cabinet allows for effortless attainment of high definitions, reaching up to 4K and beyond.



HDMI CONNECTION

The CADMIUM was specifically designed to facilitate full HDMI signal connection among cabinets. This long-awaited feature in the LED display industry enables the connection of four CADMIUM cabinets in series to a single

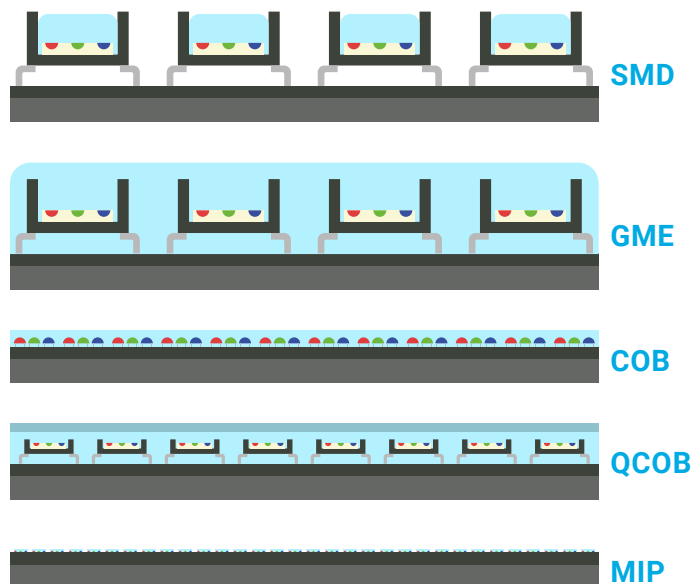
signal output. For each group of four cabinets, an additional signal output on your media server is required. This configuration allows one output to handle up to 2,073,600 pixels.





QCOB TECHNOLOGY

The QCOB module technology combines the LED configuration of the GME, with the resolution of the Mini SMD LED, and the epoxy setting of the COB. Through a mass transfer process following the epoxy application, we guarantee the impeccable flatness of each module, ensuring a seamless appearance upon installation. The LED configuration not only keeps the screen cost-effective but also facilitates easier repairs. To enhance brightness, contrast, and resistance, we apply an additional layer of patented epoxy.



MIP TECHNOLOGY

Used in the P0.6 version of our 55" CADMIUM cabinet, MIP technology involves the use of Micro LEDs applied directly to the PCB substrate through a mass transfer process. Each group of three LEDs (RGB) is then individually encapsulated to form a pixel. This design achieves

an exceptional pixel density, making it ideal for LED screens with a pitch below 1 mm. Furthermore, it offers enhanced durability for each LED module while facilitating individual pixel access for repairs, ensuring both long-lasting performance and simplified maintenance.



FRONT MAINTENANCE

The CADMIUM cabinets offer full and convenient serviceability from the front, facilitated by their magnetic modules. Utilizing a suction cup tool, each module can be effortlessly removed and replaced instantly, without any risk of damage, courtesy of the QCOB technology. To gauge the ease of this process, we conducted tests involving unqualified personnel, and the results were smooth and swift. This implies that your qualified technicians should encounter no issues when undertaking this task.



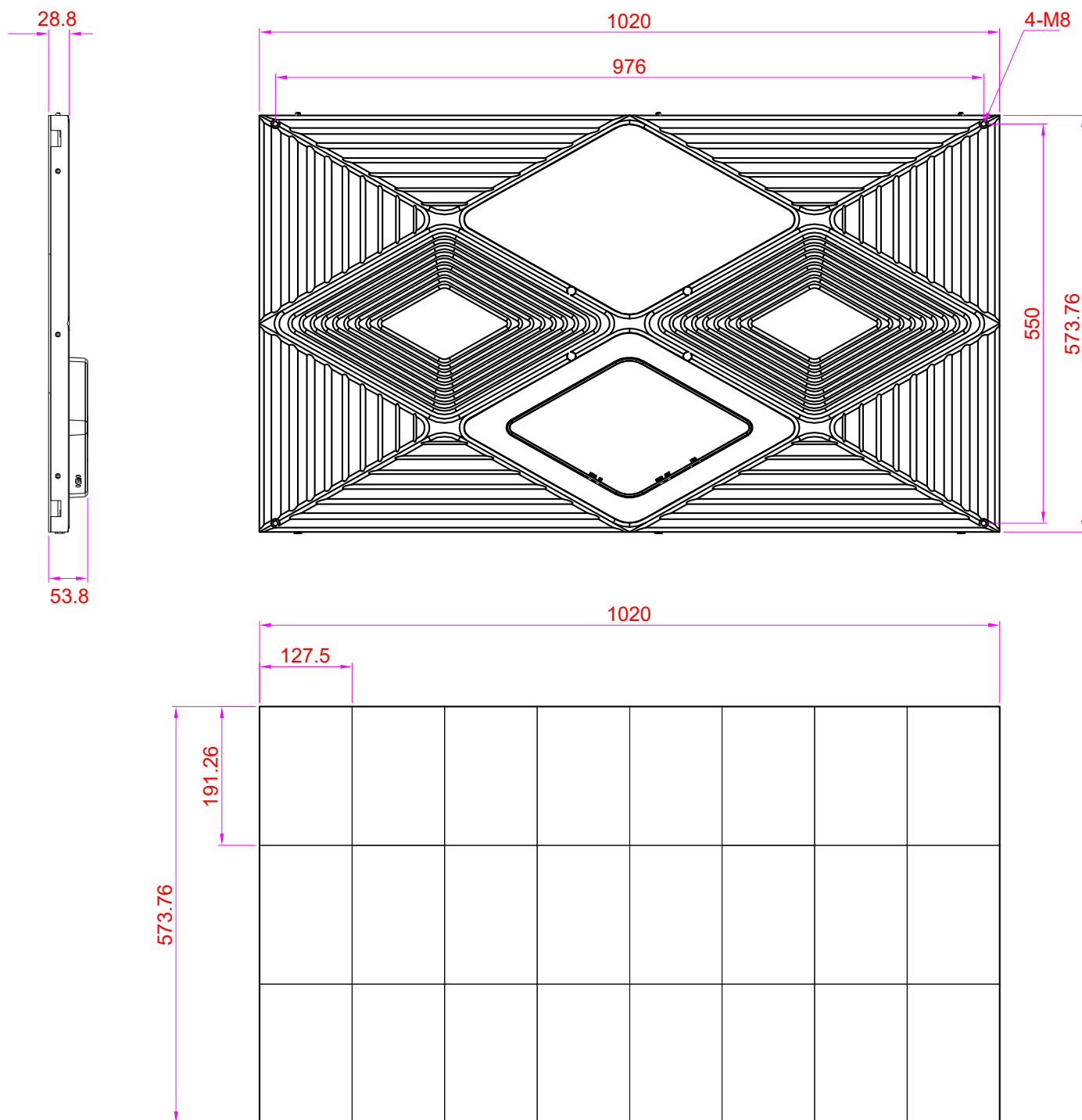
TECHNICAL SPECIFICATIONS

		INDOOR				
Product Parameters	Unit	MIP 55"	43"	46"	55"	60"
Pixel Pitch	mm	0,63	1,25	1,06	1,26	1,39
LED		MIP	SMD1010 (QCOB modules)			
Application		4K 16:9 LED cabinet	Ultra HD 16:9 LED cabinet			
Ingress Protection	IP	IP30				
Brightness	cd/m²	≤ 600 Nits @5volts	≤ 1000 Nits @5volts			
Color Temperature after calib (adjustable)	deg. K	10000				
Viewing Angle (50% brightness)	deg.	160H / 160 V				
Cabinet Size (WxHxD)	mm	1209.6 x 680.4 x 33.9	960 x 540 x 28	1020 x 573.76 x 28.8	1209.6 x 680.4 x 28.4	1336 x 754.2 x 28.8
Display area (WxH)	mm	1209.6 x 680.4 (16:9 - 55")	960 x 540 (16:9 - 43")	1020 x 573.76 (16:9 - 46")	1209.6 x 680.4 (16:9 - 55")	1336 x 754.2 (16:9 - 60")
Module Size (WxHxD)	mm	151.2 x 113.4	240 x 270	127.5 x 191.26	302.4 x 170.1	167 x 251.4
Pixel Matrix Per Cabinet (WxH)	px	1920 x 1080	768 x 432	960 x 540	960 x 540	960 x 540
Pixel Matrix Per Module (WxH)	px	240 x 180	192 x 216	120 x 180	240 x 135	120 x 180
Pixel Density	px/m²	2519526	640000	885813	629882	516333
Weight of cabinet	kg	18.8	11	15.5	18.5	20
4 cabinets resolution (2x2)		4K	Full HD			
Cabinet Material		Die-casting aluminum				
Maintenance Mode		Front				
Mask specification		MIP	QCOB			
Contrast Ratio		High				
Grey scale (linear)	bit	16				
Brightness control	bit	16				
Processing depth	bit	16				
Color		281 Billions				
Display Refresh Rate	Hz	3840				
Operation Power	V	AC100-240V				
Max. Power Consumption	W/m²	400	650	550		500
Average Power Consumption	W/m²	135	150	120		120
Control Mode		Synchronization				
Video Frame Rate	FPS	30-120				
Input Types Supported		HDMI 4K	HDMI 2K			
3D ready (optional)		Yes				
Calibration		Yes				
Lifetime (50% brightness)	h	50000				
Operating Humidity Range		10-90%				
Operating Temperature Range		-10°C / +45°C				
Screen Uniformity Correction		Yes				
Certification		CE / ETL / CCC				
Available options		-				
Compatibility		No				



TECHNICAL DRAWINGS

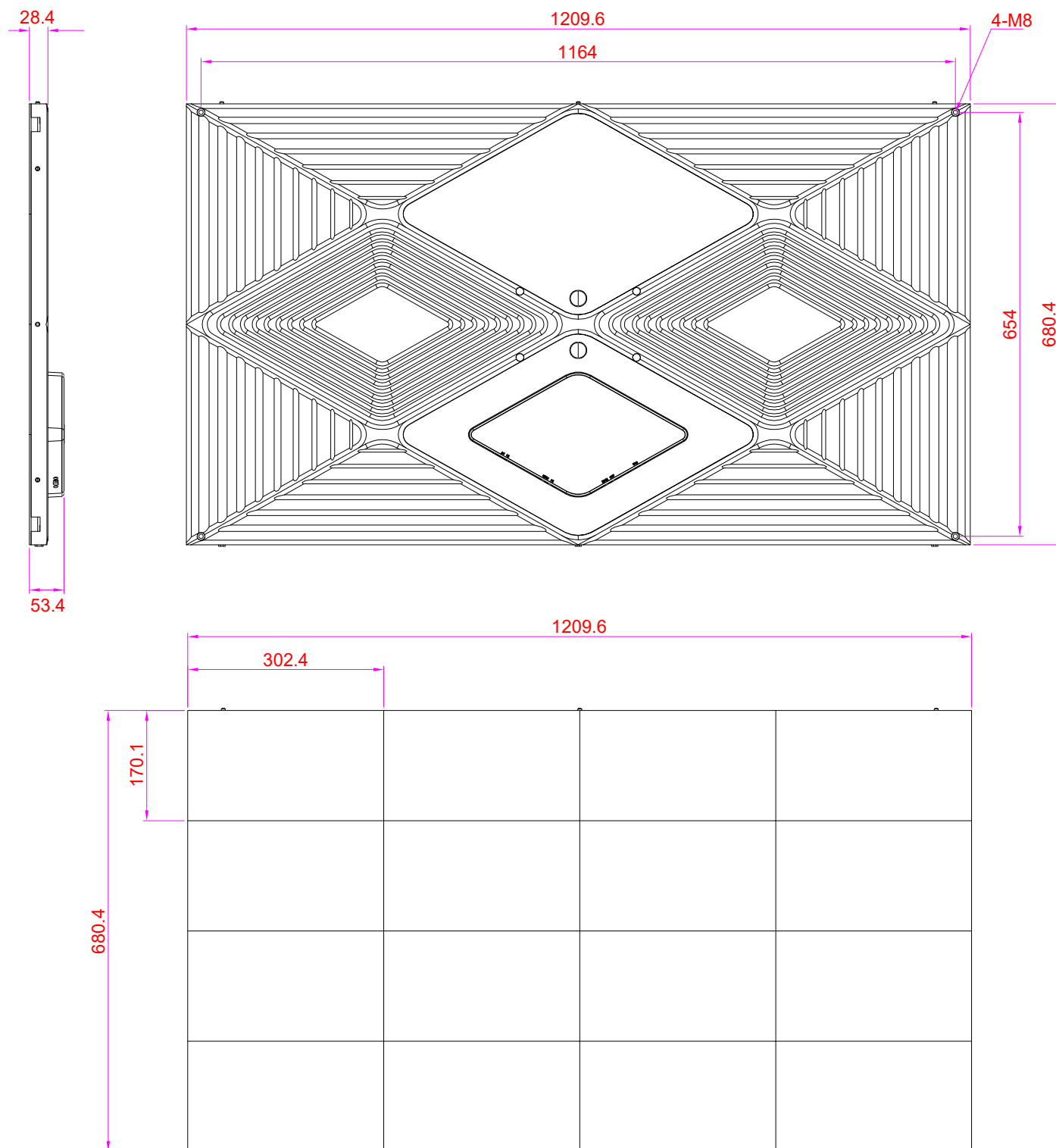
1020 x 573.76 x 28.8 mm P1 cabinet (46")





TECHNICAL DRAWINGS

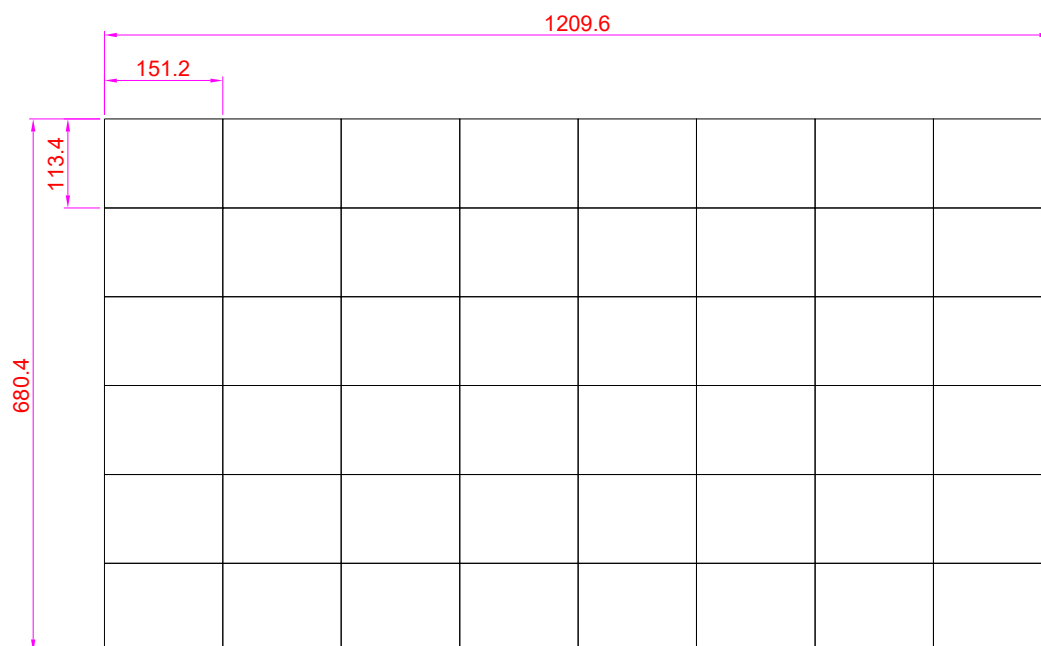
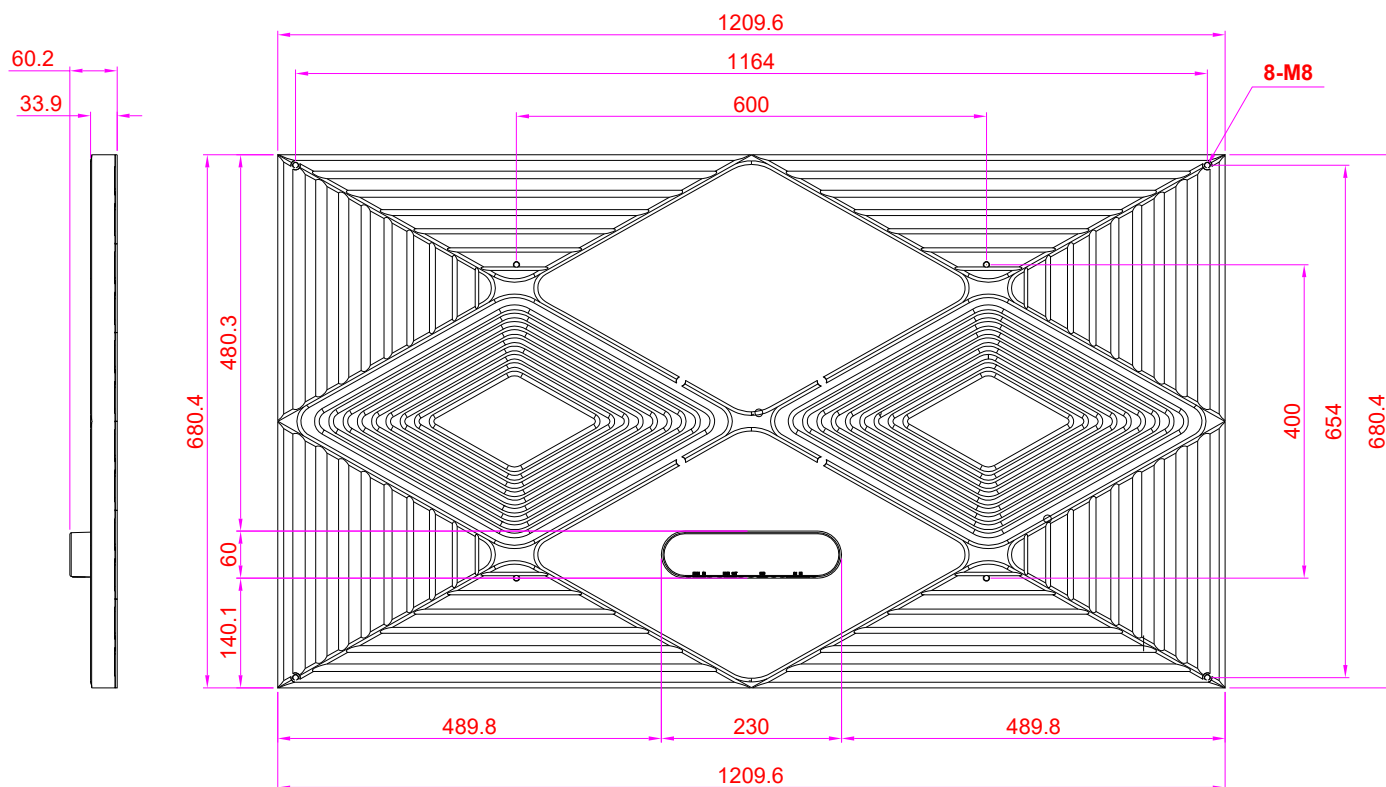
1209.6 x 680.4 x 28.4 mm P1.2 cabinet (55")





TECHNICAL DRAWINGS

1209.6 x 680.4 x 28.4 mm P0.6 cabinet (55")





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