DIAMOND

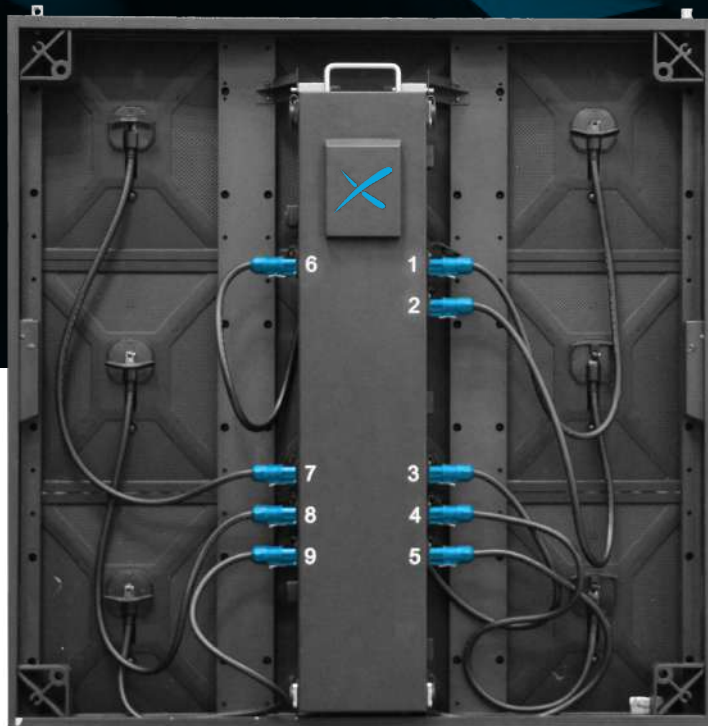## OUTDOOR FIXED LED DISPLAY

OVERVIEW

The DIAMOND is designed as a cost-effective fixed outdoor LED display. Its user-friendly features allow for easy maintenance and a quick integration process. Integrated cabling and independent modules and power box make the installation of the DIAMOND trouble-free.

APPLICATION
Outdoor

INGRESS PROTECTION
IP65 (front - with fan)
IP54 (back - without fan)
IP65 (without fan)

PIXEL PITCH
P4.2 P5 P6.4 P8 P10

DISPLAY AREA (W x H)
960 x 960 mm

BRIGHTNESS
≤ 6500 NITS (LED TYPE SMD)

WEIGHT
26.5 kg/sqm

MATERIAL
Anodized aluminum

MAINTENANCE
Front & back maintenance

FEATURES

960 x 960 x 140mm

- TRANSPORTATION HANDLE
- POWER BOX
- MODULE HANDLE
- MODULE CONNECTOR
- FIXATION HOLE

- POSITION PIN
- FAN (OPTIONAL)
- INTEGRATED HANDLE
- CABLE MANAGEMENT HOLE
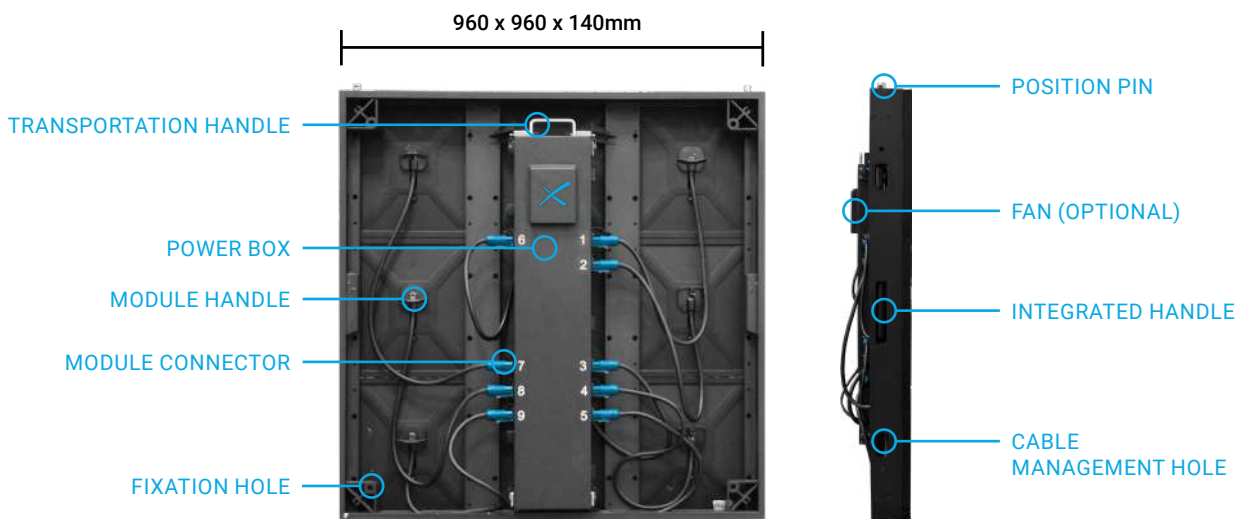
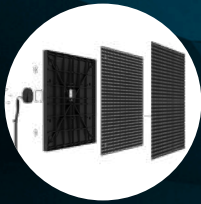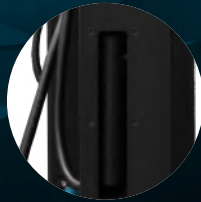## COST EFFECTIVE

The DIAMOND is available from P5 to P10, we developed this product to offer an affordable cabinet as well as an extremely fast and easy to integrate solution for your fixed outdoor LED application.

FRONT & BACK ACCESS MODULES

INTEGRATED LATERAL HANDLES

BRIGHT COLORS AND HIGH CONTRAST VISIBLE FROM AFAR

FRONT MAINTENANCE

The DIAMOND is a perfect fit for a wall application because of its front maintenance system. With the help of a T-shaped tool, you can remove the modules from the front to replace them easily. This process is a one-man job. Back maintenance is also possible only if you are removing the module above or below the defective module. This way, it's possible to pull out the defective module through the back of the cabinet frame

HIGH RESILIENCE

The DIAMOND is highly resistant to humidity, extreme temperatures, and particle ingress. It's a reliable product that will perform normally and stay true to its original condition even in a harsh environment.

FAN OPTION

Even though the DIAMOND is in itself a reliable and durable LED display, you can further prolong its lifespan by choosing to add a fan to the power box. This option allows the power box to operate efficiently while remaining cooler, putting less stress on the internal components of your LED display. It also serves as additional protection against heat if your project is to integrate a LED display somewhere permanently exposed to sunlight.

TECHNICAL SPECIFICATIONS

Product Parameters	Unit	OUTDOOR				
		4.2	5	6	8	10
Pixel Pitch	mm	4,21	5,00	6,4	8	10
LED		SMD2727 3in1 (Black Face)			SMD3535 3in1 (Black Face)	
Application		Fixed installation + affordable front access				
Ingress Protection	IP	IP65 (front) IP 54 (back) (with fans) / IP65 (front and back without fans)				
Brightness	cd/sqm	≤ 5500 Nits @5volts		≤ 6500 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 140 (with fans) 960 x 960 x 120 (without fans)				
Display area (WxH)	mm	960 x 960				
Module Size (WxHxD)	mm	320 x 320 x 20				
Pixel Matrix Per Cabinet (WxH)	px	228 x 228	192 x 192	150 x 150	120 x 120	96 x 96
Pixel Matrix Per Module (WxH)	px	76 x 76	64 x 64	50 x 50	40 x 40	32 x 32
Pixel Density	px/sqm	56406	40000	24414	15625	10000
Weight of cabinet	kg	26.5				
Cabinet Material		Anodized Aluminum				
Maintenance Mode		Front and Back				
Mask specification		95% Plastic + 5% Fiber / SS Screws / Shaders / Backshell in Aluminum + PC				
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	250				
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		Below 0.0001 (Out of Control point)				
Certification		CE / ETL / CCC				
Available options		Neutrik outdoor connectors / Aluminum / Size can be customized				
Compatibility		-				

TECHNICAL DRAWINGS

WITHOUT FAN
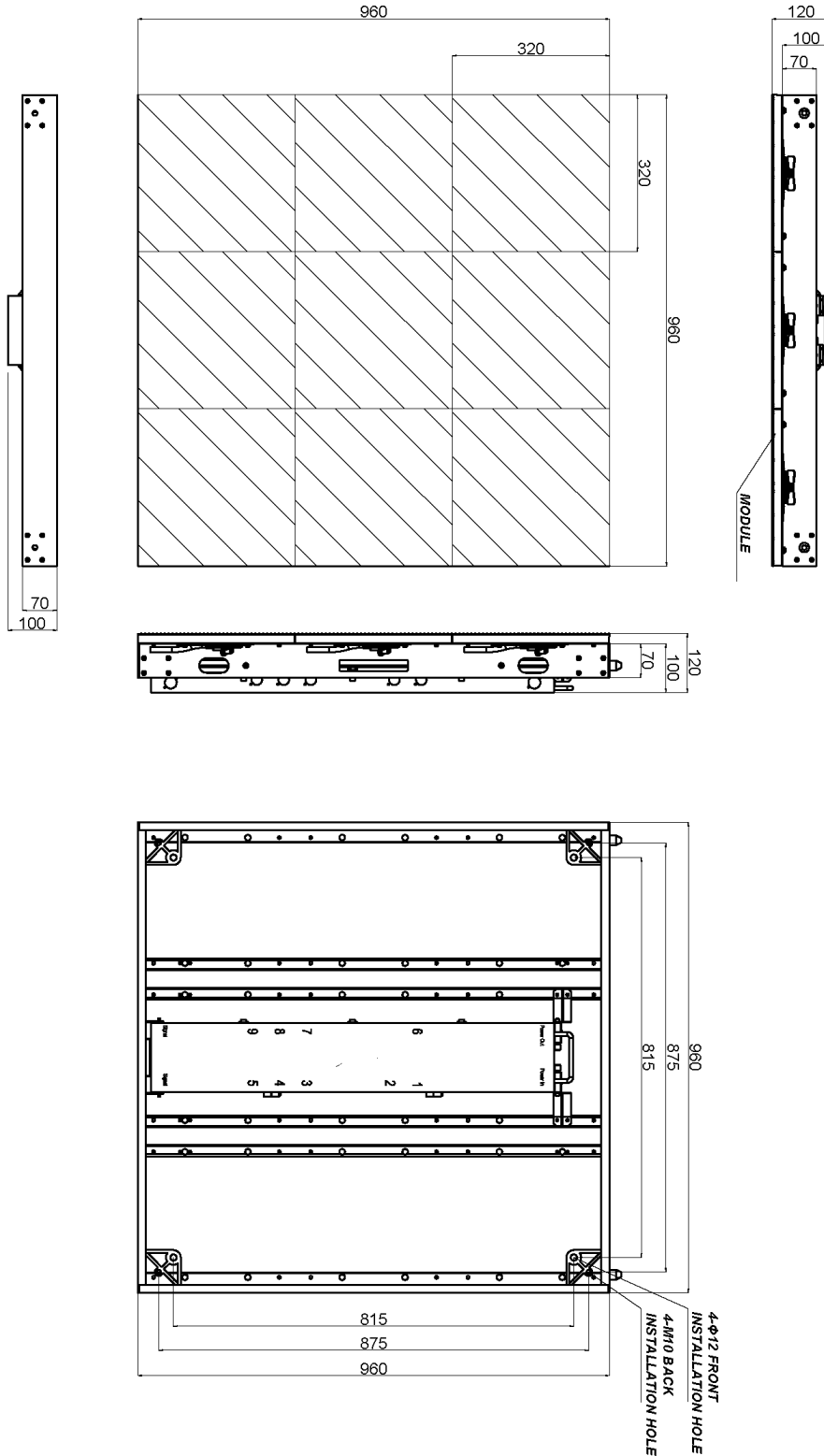
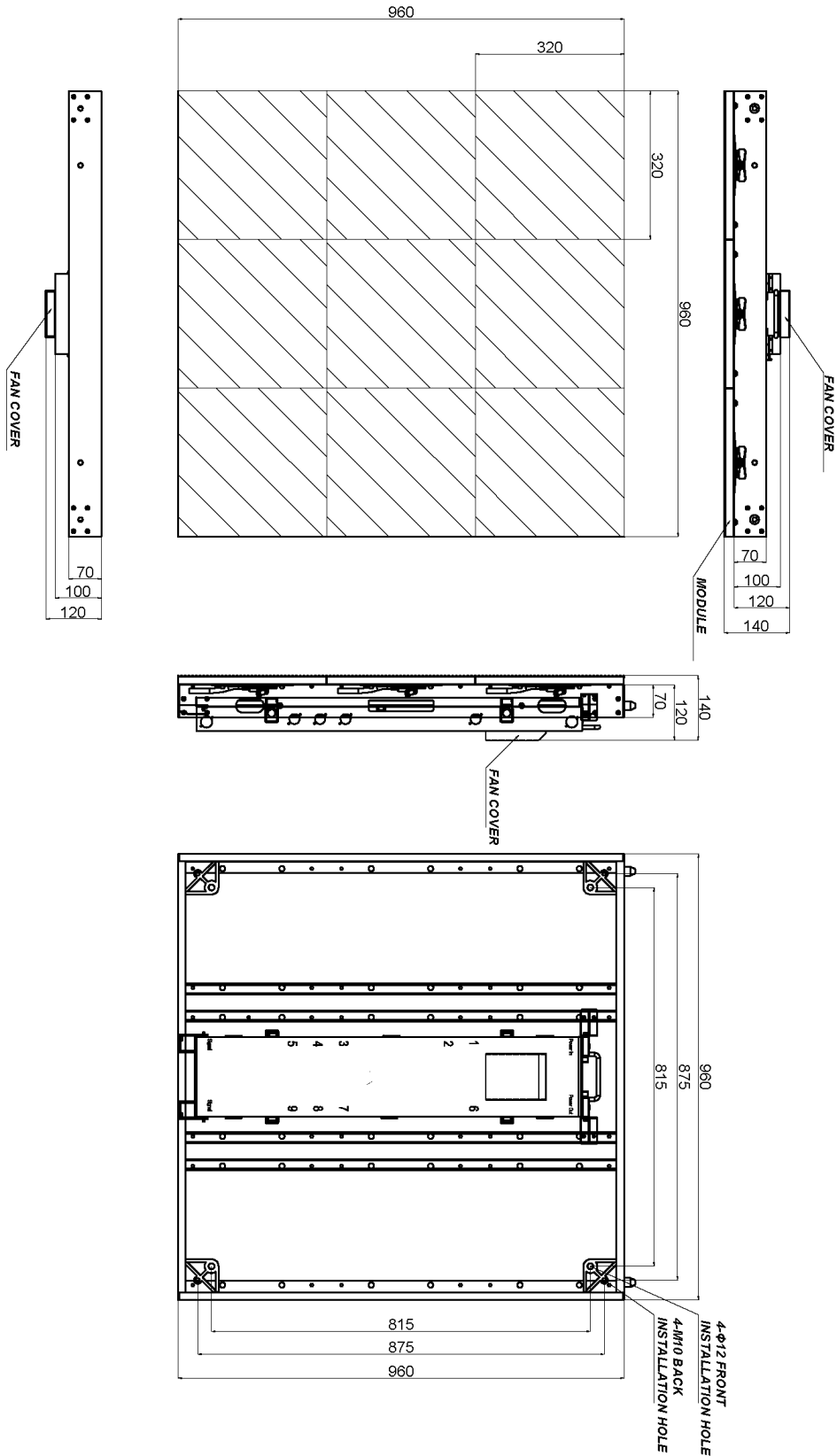## TECHNICAL DRAWINGS

WITH FAN

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, making 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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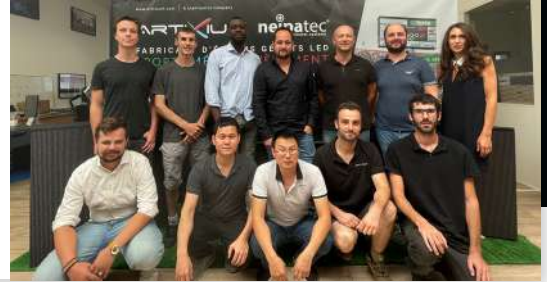
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ARTIXIUM®

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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