



# COBALT

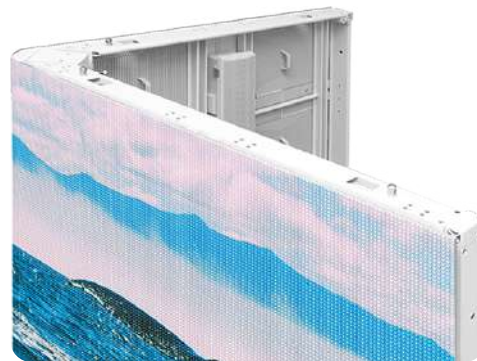
HIGH BRIGHTNESS OUTDOOR LED DISPLAY





## OVERVIEW

The COBALT was designed to be a robust high brightness outdoor LED display. It comes with a smart heat dissipation design, the highest brightness on the LED display market, and can be maintained from the front as well as from the back. Its resilience to both water and dust ingress make it the ideal solution for fixed outdoor LED applications.



**APPLICATION**  
**Outdoor**



**BRIGHTNESS**  
**≤ 10000 NITS (LED TYPE SMD)**



**INGRESS PROTECTION**  
**IP68 (front) / IP67 (back)**



**WEIGHT**  
**56.5 - 41 - 27.3 - 38**  
**27 - 19 - 38 kg/cabinet**



**PIXEL PITCH**  
**P5.7 P6.6 P8 P10**



**MATERIAL**  
**Die-casting aluminum**



**DISPLAY AREA (L x H)**  
**1440 x 1280 mm**  
**1440 x 960 mm**  
**1440 x 640 mm**  
**960 x 1280 mm**  
**960 x 960 mm**  
**960 x 640 mm**  
**1280 x 960 mm**



**MAINTENANCE**  
**Front & back maintenance**



## FEATURES

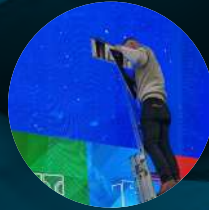


## HEAT DISSIPATION DESIGN

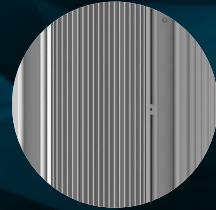
Every aspect of the COBALT cabinet is designed to allow good air convection through the power box and the modules. Combined with the white frame and aluminum material, this smart design helps to keep the COBALT as cool as possible in order to prevent your LED display's components to decay because of heat.



**CURVE AND 90°  
OPTIONS AVAILABLE**



**BACK & FRONT MAINTENANCE**



**HEAT DISSIPATION  
DESIGN**

## CURVE AND 90° OPTIONS

Upon request, we can supply cabinets especially cut for curved or angled applications, which combined with the different cabinet sizes available make this product very adaptable to most outdoor LED display projects.

## MODULAR FIXED OUTDOOR SOLUTION

There are 6 different COBALT cabinet sizes, all compatible with one another, using 480 x 320 mm modules. We also implemented 1280 x 960 mm cabinets, compatible with the other sizes, using 320 x 320 mm modules. Thanks to all the different cabinet dimensions, you can create tailored giant LED screens with ease.



## IP68 / IP67

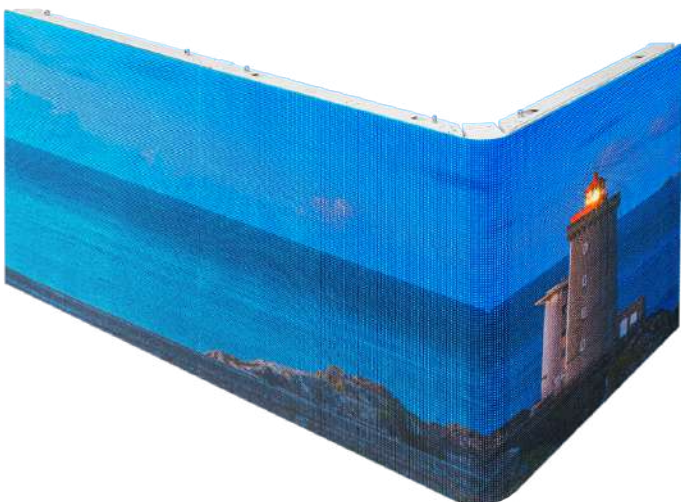
The COBALT is fully resistant to dust ingress and even high pressure water projections. This product will stay true to its original condition no matter what.

## HIGH BRIGHTNESS

10000 NITS is the highest brightness available on the LED display market. Your led display will stay bright for a longer period of time. For instance, this product is estimated to maintain a 7000 NITS brightness after 6 years of intensive use.

## SMART MAINTENANCE

In order to accommodate most LED applications, the COBALT was designed to be maintained both from the front with a T-shaped tool or from the back without any tool required. This process is quick and can be operated by one technician.





# TECHNICAL SPECIFICATIONS



		OUTDOOR			
Product Parameters	Unit	5.7	6.6	8	10
Pixel Pitch	mm	5,71	6,67	8,00	10,00
LED		SMD2727		SMD3535	
Application		Outdoor ultra high brightness			
Ingress Protection	IP	IP68 (Front) / IP67 (Back)			
Brightness	cd/m <sup>2</sup>	≤ 10000 Nits @5volts			
Color Temperature after calib (adjustable)	deg. K	6500			
Viewing Angle (50% brightness)	deg.	180(+/-90) H			
Cabinet Size (WxHxD)	mm	960 x 960 x 101 / 960 x 640 x 101 / 960 x 1280 x 101 / 1440 x 960 x 101 / 1440 x 640 x 101 / 1440 x 1280 x 101			
Display area (WxH)	mm	960 x 960 / 960 x 640 / 960 x 1280 / 1440 x 960 / 1440 x 640 / 1440 x 1280			
Module Size (WxHxD)	mm	480 x 320 x 26			
Pixel Matrix Per Cabinet (WxH)	px	168 x 168 / 168 x 224 / 168 x 112 / 252 x 168 / 252 x 112 / 252 x 224	144 x 144 / 144 x 192 / 144 x 96 / 216 x 144 / 216 x 96 / 216 x 192	120 x 120 / 120 x 160 / 120 x 80 / 180 x 120 / 180 x 80 / 180 x 160	96 x 96 / 96 x 128 / 96 x 64 / 144 x 96 / 144 x 64 / 144 x 128
Pixel Matrix Per Module (WxH)	px	84 x 56	72 x 48	60 x 40	48 x 32
Pixel Density	px/m <sup>2</sup>	30625	22500	15625	10000
Weight of a cabinet	kg	27 (960 x 960) / 19 (960 x 640) / 38 (960 x 1280) / 41 (1440 x 960) / 27.3 (1440 x 640) / 56.5 (1440 x 1280)			
Cabinet Material		Die-casting aluminum			
Maintenance Mode		Front & back			
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/m <sup>2</sup>	550			
Average Power Consumption	W/m <sup>2</sup>	200			
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		EMC CLASS B / CE / ETL / CCC			
Available options		Curve, hanging bars, corner cabinets			
Compatibility		Different sizes compatible with each other			



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Color Temperature after calib (adjustable)	deg. K	6500			
Viewing Angle (50% brightness)	deg.	180(+/-90) H			
Cabinet Size (WxHxD)	mm	1280 x 960 x 96			
Display area (WxH)	mm	1280 x 960			
Module Size (WxHxD)	mm	320 x 320 x 26			
Pixel Matrix Per Cabinet (WxH)	px	224 x 168	192 x 144	160 x 120	128 x 96
Pixel Matrix Per Module (WxH)	px	56 x 56	48 x 48	40 x 40	32 x 32
Pixel Density	px/m <sup>2</sup>	30625	22500	15625	10000
Weight of a cabinet	kg	38			
Cabinet Material		Die-casting aluminum			
Maintenance Mode		Front & back			
Mask specification		95% Plastic + 5% Fiber / SS Screws / Shaders			
Contrast Ratio		High			
Grey scale (linear)	bit	16			
Brightness control	bit	16			
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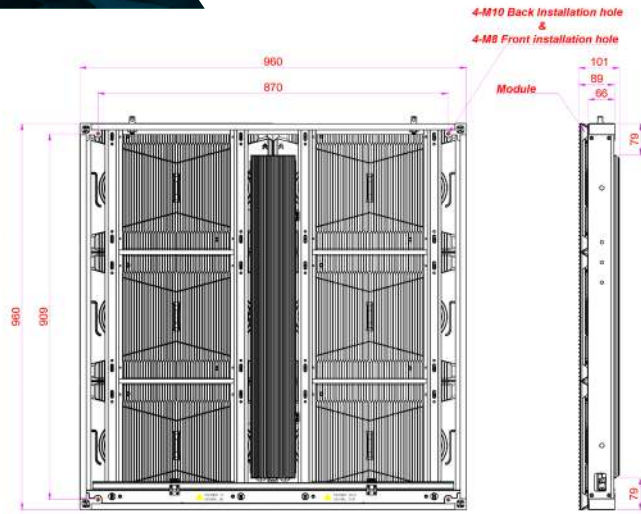
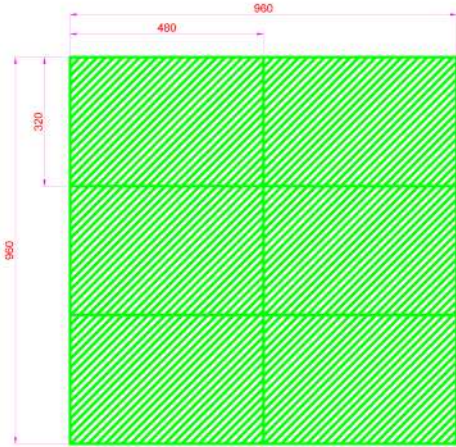


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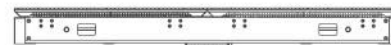
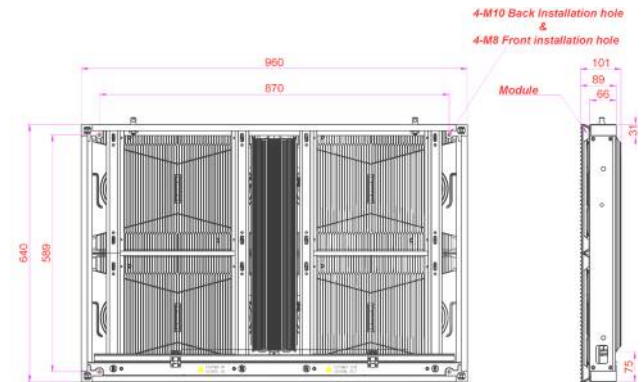
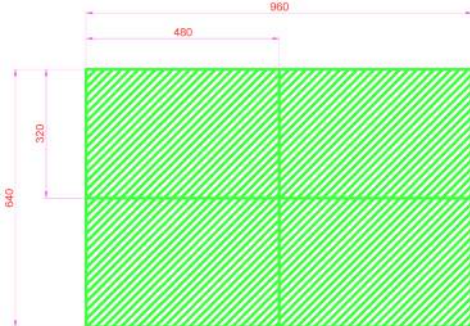


## TECHNICAL DRAWINGS

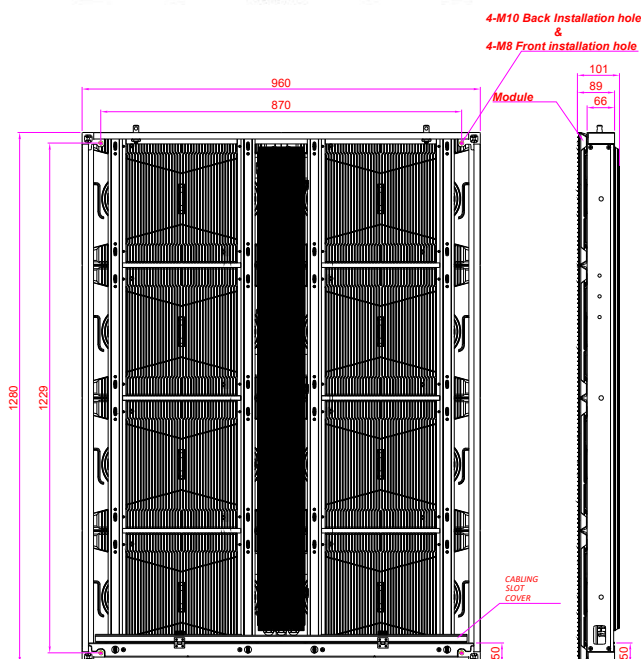
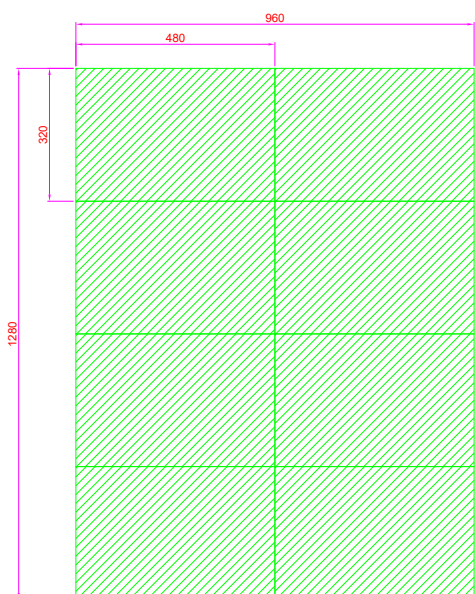
960 x 960 x 101 mm



960 x 640 x 101 mm



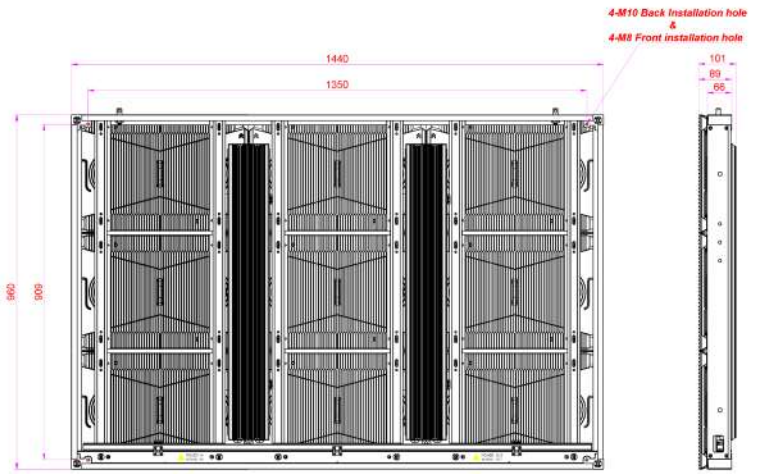
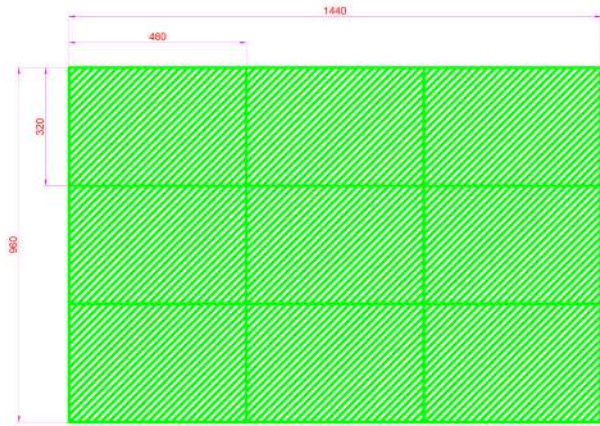
960 x 1280 x 101 mm



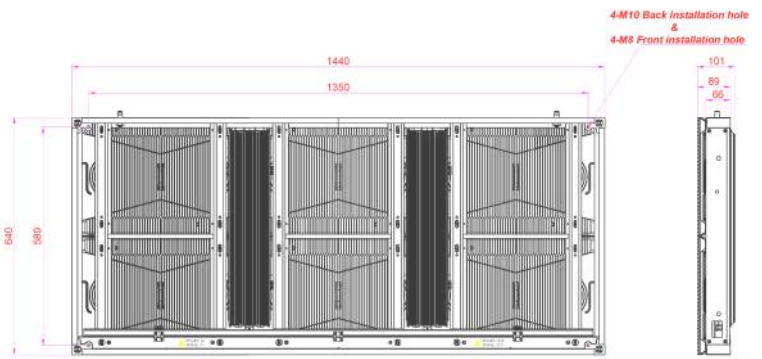
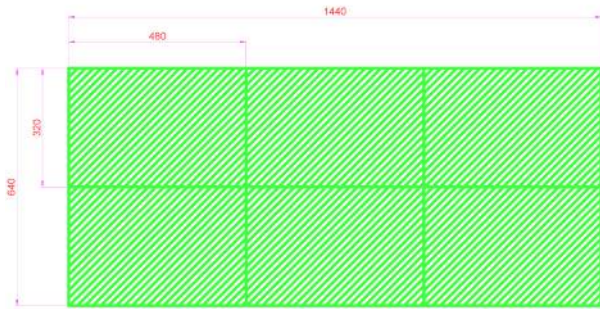


## TECHNICAL DRAWINGS

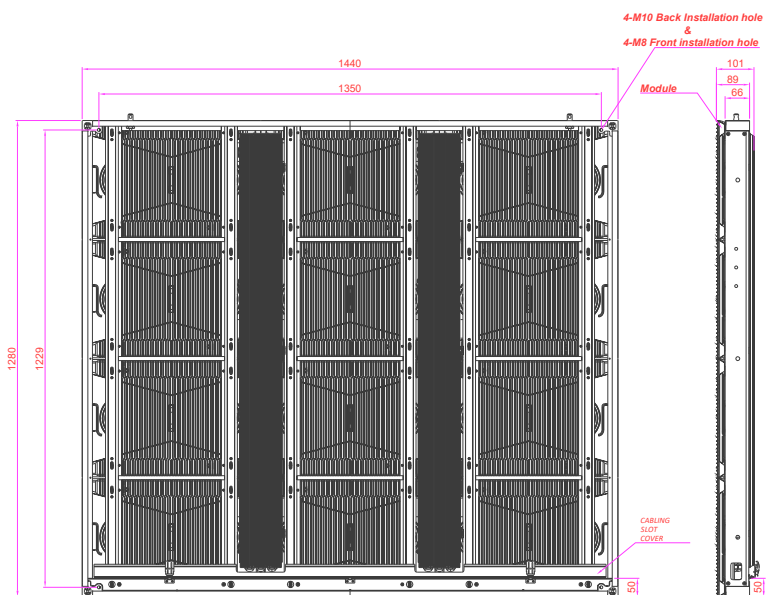
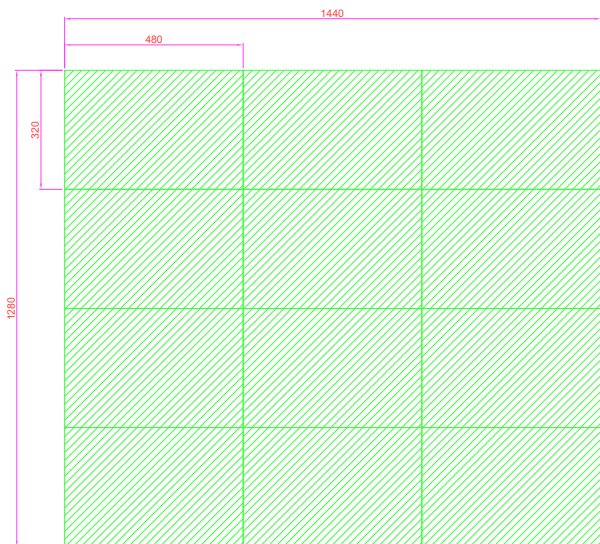
### 1440 x 960 x 101 mm



### 1440 x 640 x 101 mm



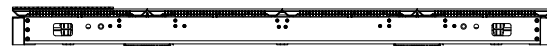
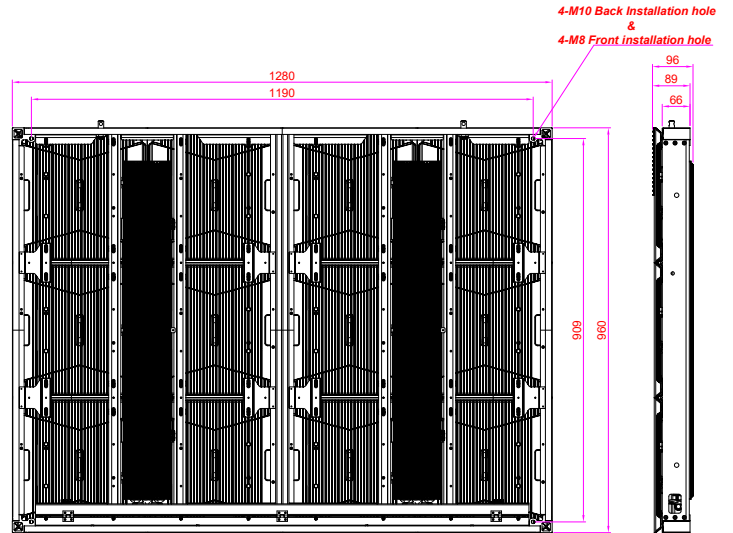
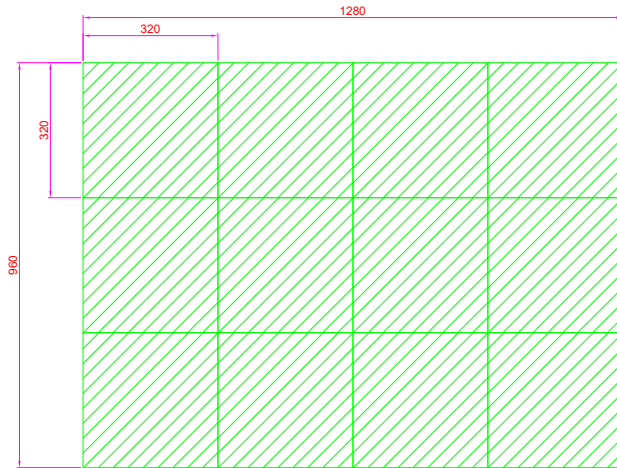
### 1440 x 1280 x 101 mm





## TECHNICAL DRAWINGS

1280 x 960 x 96 mm







# 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."*




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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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