TITANITE 3.0

ULTRA HD COB LED CABINET

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ULTRA HD COB 16:9 LED DISPLAY
FRONT MAINTENANCE

OVERVIEW

Push the boundaries of visual performance with the Titanite 3.0 – our next-generation 16:9 LED cabinet featuring COB technology. Available in P0.9, P1.2, and P1.5, it delivers outstanding resolution while combining sleek design, lightweight construction, and powerful performance to meet the demands of premium projects.

APPLICATION
Indoor

INGRESS PROTECTION
IP50 (front) / IP20 (back)

PIXEL PITCH
P0.9 P1.2 P1.5

DISPLAY AREA (W x H)
600 x 337.5 mm

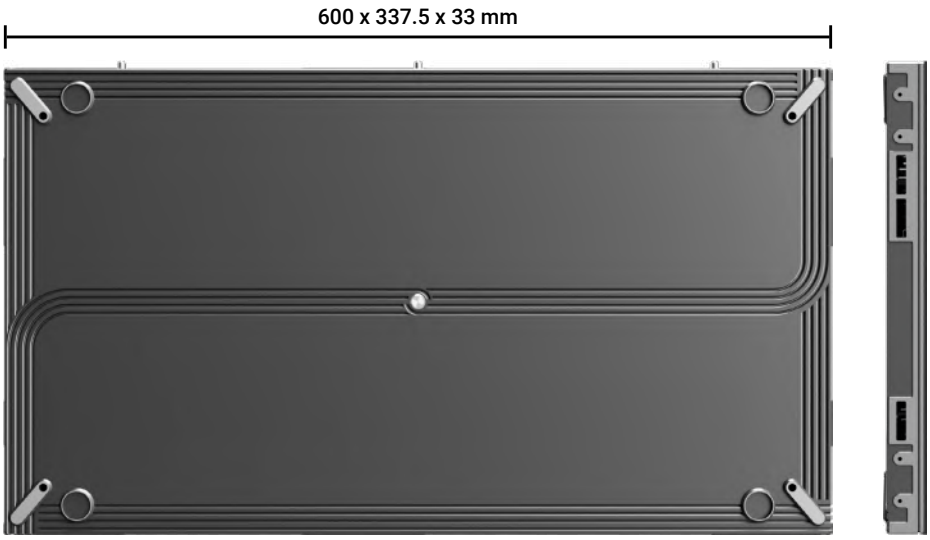
BRIGHTNESS
≤ 600 NITS @5voltz

WEIGHT
4.2 kg/cabinet

MATERIAL
Die-casting aluminum

MAINTENANCE
Front maintenance

FEATURES



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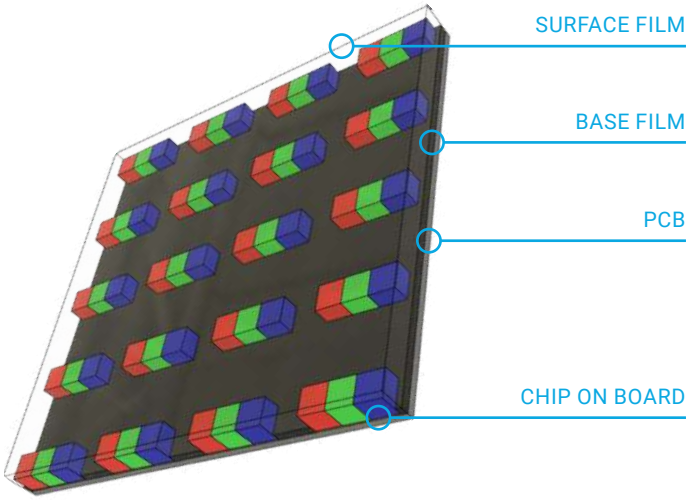
COB TECHNOLOGY

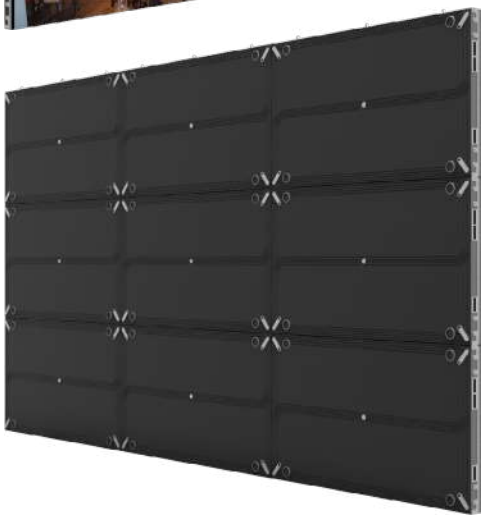
COB (Chip On Board) LED technology represents a major breakthrough in display engineering. By mounting LED chips directly onto the PCB without individual packaging, COB enables significantly higher pixel density, a smoother and more uniform image surface, and dramatically reduced pixel spacing.

The result: stunning visual clarity, improved thermal dissipation, optimized energy consumption, and enhanced durability. Perfectly suited for high-demand environments, COB technology ensures an immersive viewing experience even at very close range.



MULTILAYER STRUCTURE

Titanite 3.0 is built on an optimized multilayer architecture: a high-density PCB ensures electrical stability, a base film provides insulation and prevents brightness loss, LED chips are directly encapsulated via COB, and a protective surface film seals the assembly. This construction ensures excellent heat dissipation, strong resistance to external elements, and consistently high image quality, even up close.



16:9 RATIO

Titanite 3.0 features a native 16:9 aspect ratio, fully aligned with current video standards. This format makes it easy to create video walls in common resolutions such as Full HD, 4K, or 8K without the need for cropping or software adjustments.

It also simplifies integration in professional environments—whether for corporate presentations, live broadcasting, or immersive stage design—while ensuring perfectly proportioned content display.

ULTRA HD & 4K RESOLUTION

Thanks to its ultra-fine pixel pitch, Titanite 3.0 can achieve Full HD, Ultra HD 4K, and even 8K resolutions with a limited number of cabinets.
See the chart below for an overview of available resolutions and the number of cabinets required to achieve each.

	Resolution	0.9	1.2	1.5
Number of cabinet	Full HD (1920x1080)	9	16	25
Screen dimensions	Full HD (1920x1080)	1800 x 1012,5	2400 x 1350	3000 x 1687,5
Number of cabinet	4K (3840x2160)	36	64	100
Screen dimensions	4K (3840x2160)	3600 x 2025	4800 x 2700	6000 x 3375
Number of cabinet	8K (7680x4320)	144	256	400
Screen dimensions	8K (7680x4320)	7200 x 4050	9600 x 5400	12000 x 6750

HIGH-END APPLICATIONS

With its ultra-fine resolution, native 16:9 format, and COB technology, Titanite 3.0 is the ideal solution for demanding environments. It seamlessly fits into control rooms, broadcast studios, boardrooms, premium reception areas, and tech-driven showrooms. Its precision and compactness also make it a smart choice for virtual production stages, corporate video walls, and high-end architectural installations.

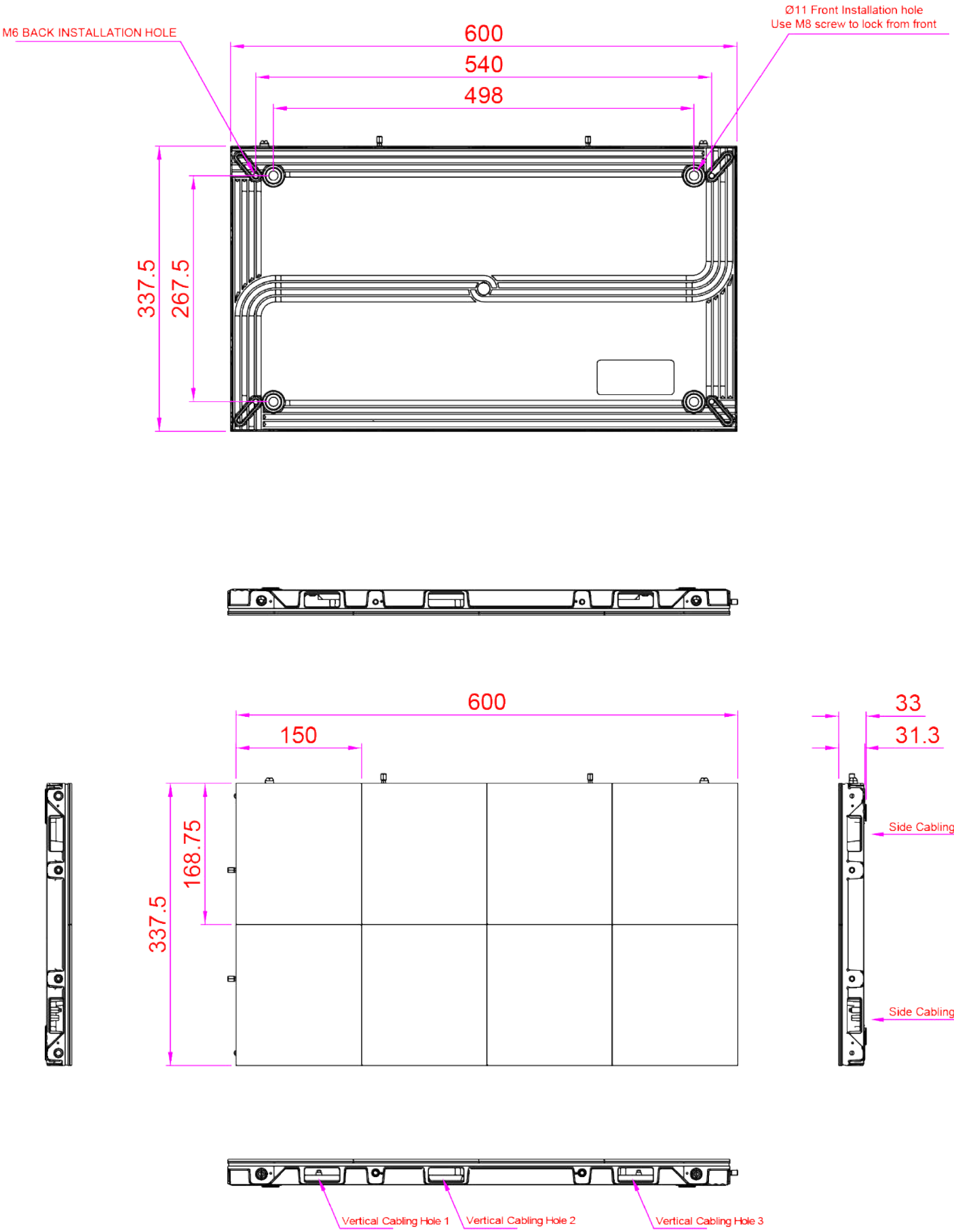
FRONT MAINTENANCE

Titanite 3.0 is engineered for fast, hassle-free maintenance. LED modules are magnetically attached to the cabinet, allowing full front access without dismantling the structure. A simple suction tool applied to the surface film enables precise and safe module removal, making replacement and servicing quick and discreet.

TECHNICAL SPECIFICATIONS

		INDOOR		
Product Parameters	Unit	0.9	1.2	1.5
Pixel Pitch	mm	0,94	1,25	1,563
LED		COB		
Application		Media UHD		
Ingress Protection	IP	IP50 (Front) / IP20 (Back)		
Brightness	cd/m²	≤ 600 @5volts Adjustable		
Color Temperature after calib (adjustable)	deg. K	3200 - 9300		
Viewing Angle (50% brightness)	deg.	160 H / 160 V		
Cabinet Size (WxHxD)	mm	600 x 337.5 x 33		
Display area (WxH)	mm	600 x 337.5		
Module Size (WxHxD)	mm	150 x 168.75		
Pixel Matrix Per Cabinet (WxH)	px	640 x 360	480 x 270	384 x 216
Pixel Matrix Per Module (WxH)	px	160 x 180	120 x 135	96 x 108
Pixel Density	px/m²	1137778	640000	409600
Weight of cabinet	kg	4.2		
Cabinet Material		Die-casting aluminum		
Maintenance Mode		Front		
Mask specification		No Mask		
Contrast Ratio		High		
Grey scale (linear)	bit	16		
Brightness control	bit	16		
Processing depth	bit	14 - 16		
Color		281 Trillions		
Display Refresh Rate	Hz	3840		
Operation Power	V	AC100 - 240V		
Max. Power Consumption	W/m²	280	265	250
Average Power Consumption	W/m²	112	106	100
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	100000		
Operating Humidity Range		10-95%		
Operating Temperature Range		-20°C / +40°C		
Screen Uniformity Correction		-		
Certification		CCC / EMC CLASS-A / CE / ROHS		
Available options		-	Common Anode / Common Cathode	
Compatibility		No		

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, 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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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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