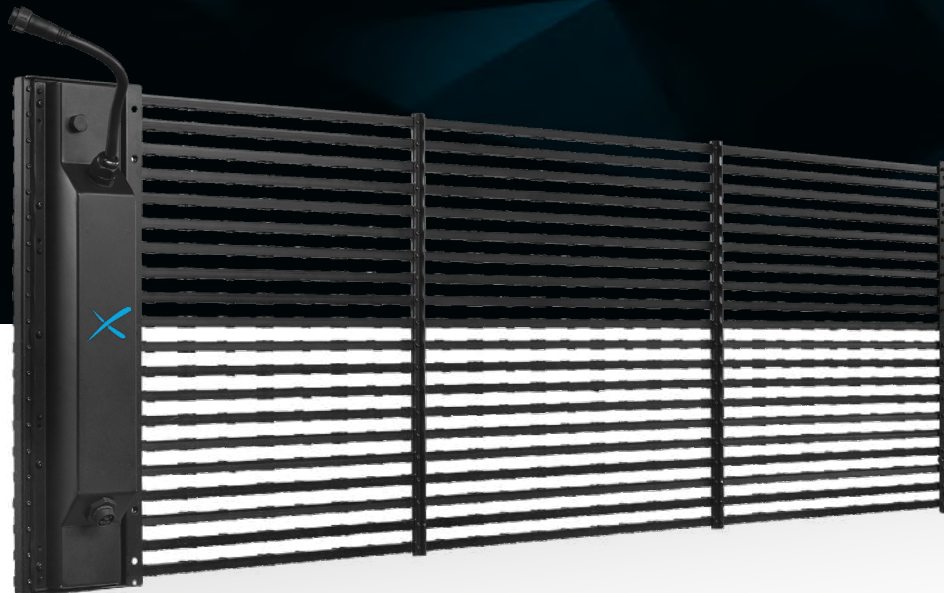# NITROGEN

FIXED TRANSPARENT OUTDOOR LED DISPLAY

## OVERVIEW

The NITROGEN is an outdoor transparent LED display most suited for architectural setups. With a pixel pitch ranging from P15a to P50a, it's designed for long distance viewing and large display surfaces. The NITROGEN is highly transparent, lightweight and adaptable to any type of building. Furthermore, this product is very resistant and can withstand permanent use in the most demanding environments.
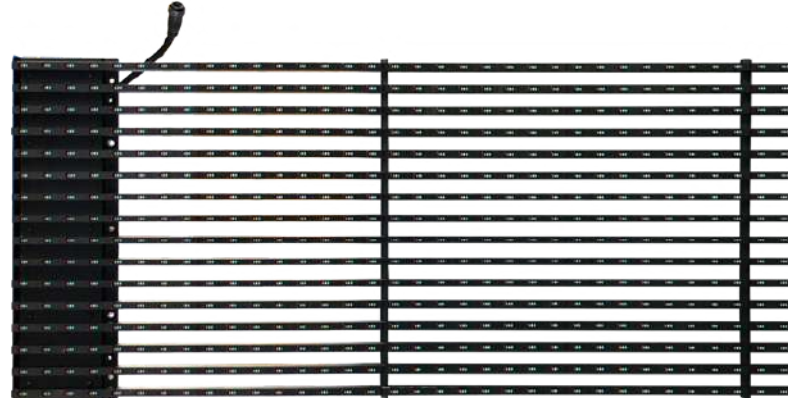
**APPLICATION**
**Outdoor**

**BRIGHTNESS**
**≤ 8500 NITS** (LED TYPE SMD)

**INGRESS PROTECTION**
**IP65**

**WEIGHT**
**9 - 8.7 - 7.4**
**6.1 - 5.5 kg/cabinet**

**PIXEL PITCH**
**P15.6a31.2 P25 P25a31.2**
**P25a41.6 P25a50**

**MATERIAL**
**Anodized aluminum**

**DISPLAY AREA** (W x H)
**1000 x 500 mm (P15.6a31.2)**
**1500 x 500 mm (other pitches)**

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

## FEATURES

1500 x 500 x 83 mm

INTEGRATED
BTB CABLE

POWER BOX

ANODISED
ALUMINUM FRAME

RGB DIP LEDS

ASYMMETRIC
PIXEL PITCH
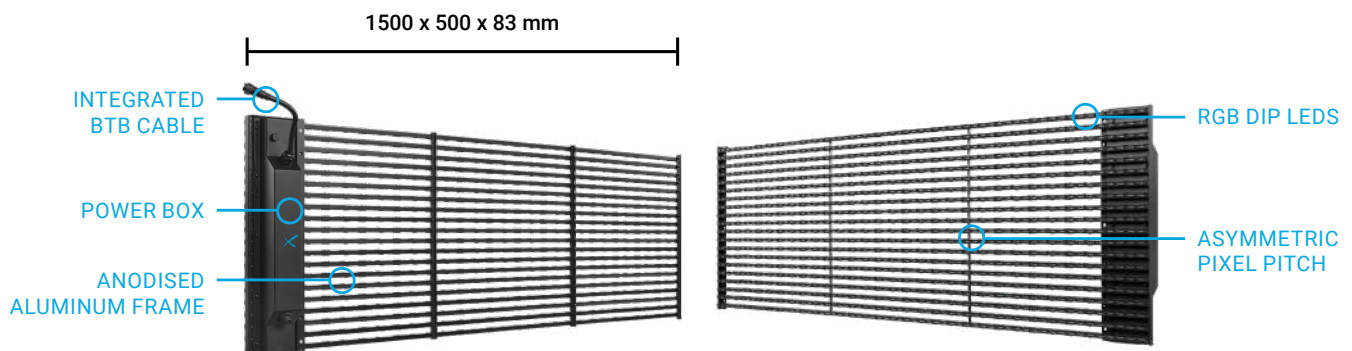
## EXTREME ENVIRONMENTS

The NITROGEN is fully IP65 and UV resistant, which means it's a very tough and trustworthy product. It will perform day and night in very harsh environments with no issue whatsoever, making your building-sized LED display a sight permanently etched in your district's visual identity.

**RGB DIP LEDS**

**INTEGRATED BTB CABLE**

**2IN1 POWER & DATA BTB CONNECTOR**

## HIGH BRIGHTNESS

The NITROGEN draws its visual quality from two factors. First is the potential dimension it can cover, making any display very sharp even with such large pixel pitches. Then, the high brightness ensures a high visibility of said details from very long distances. Thanks to these features, the NITROGEN is the best solution for large-scale outdoor displays.
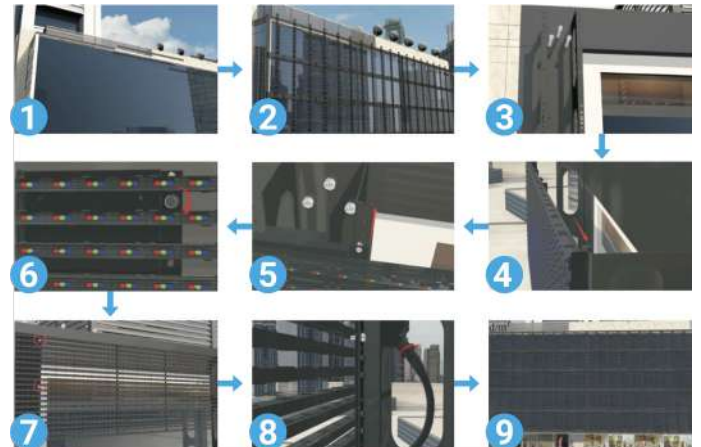
## ARCHITECTURAL ELEMENT

The NITROGEN can cover extremely large surfaces with a relatively low budget. From airports to stadium facades, hotels, and shopping malls, the NITROGEN will be a part of your architectural project in itself, merging with your building design thanks to its high transparency.
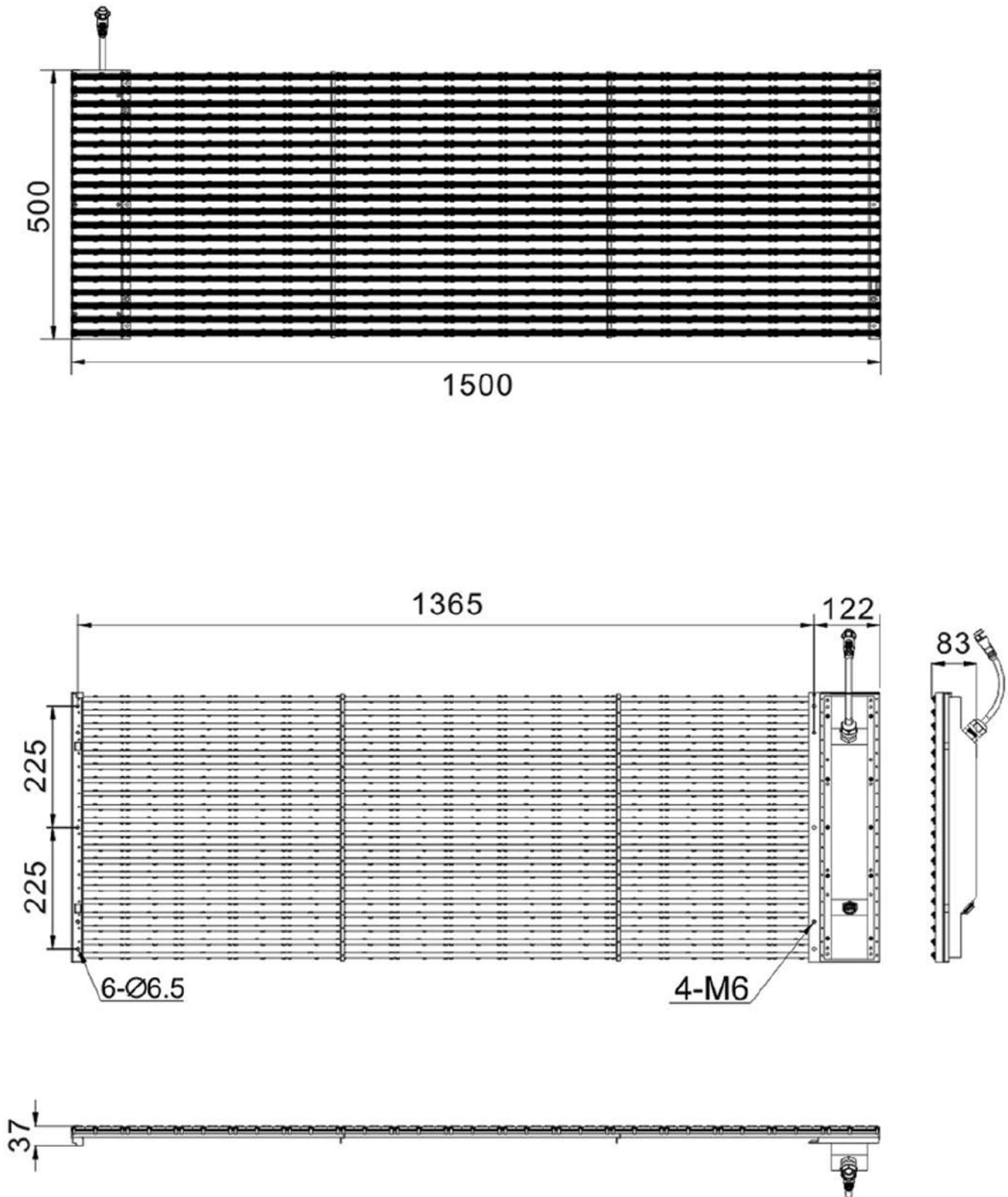
## TECHNICAL SPECIFICATIONS

| Product Parameters | Unit | OUTDOOR | | | | |
|---|---|---|---|---|---|---|
| | | 15.6a31.2 | 25 | 25a31.2 | 25a41.6 | 25a50 |
| Pixel Pitch | mm | 15,63 x 31,25 | 25 | 25 x 31,25 | 25 x 41,67 | 25 x 50 |
| LED | | DIP Oval 3mm | DIP Oval 3mm | DIP Oval 3mm | DIP Oval 3mm | DIP Oval 3mm |
| Application | | Media outdoor facade | | | | |
| Ingress Protection | IP | IP65 | | | | |
| Brightness | cd/sqm | ≤ 8500 Nits @5volts | ≤ 8000 Nits @5volts | ≤ 7000 Nits @5volts | ≤ 6000 Nits @5volts | ≤ 5000 Nits @5volts |
| Color Temperature after calib (adjustable) | deg. K | 6500 | | | | |
| Viewing Angle (50% brightness) | deg. | 110(+/-55) H / 60 V | | | | |
| Cabinet Size (WxHxD) | mm | 1000 x 500 x 83 | 1500 x 500 x 83 | | | |
| Display area (WxH) | mm | 1000 x 500 | 1500 x 500 | | | |
| Module Size (WxHxD) | mm | 1000 x 250 | 1500 x 250 | | | |
| Pixel Matrix Per Cabinet (WxH) | px | 64 x 16 | 60 x 20 | 60 x 16 | 60 x 12 | 60 x 10 |
| Pixel Matrix Per Module (WxH) | px | 64 x 8 | 60 x 10 | 60 x 8 | 60 x 6 | 60 x 5 |
| Pixel Density | px/sqm | 2047 | 1600 | 1280 | 960 | 800 |
| Weight of cabinet | kg | 9 | 8.7 | 7.4 | 6.1 | 5.5 |
| Cabinet Material | | Anodized aluminium | | | | |
| Maintenance Mode | | Front & back (no tools required) | | | | |
| Mask specification | | 95% Plastic + 5% Fiber / SS Screws / Shaders | | | | |
| Contrast Ratio | | Low | | | | |
| Grey scale (linear) | bit | 16 | | | | |
| Brightness control | bit | 16 | | | | |
| Processing depth | bit | 16 | | | | |
| Color | | 281 Trillions | | | | |
| Display Refresh Rate | Hz | 2400 | | | | |
| Operation Power | V | AC85-230V | | | | |
| Max. Power Consumption | W/sqm | 234 | 500 | 450 | 400 | 350 |
| Average Power Consumption | W/sqm | 178 | 170 | 150 | 140 | 150 |
| 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 | | 61% | 54% | 61% | 69% | 72% |
| Certification | | CE / ETL / CCC | | | | |
| Available options | | - | | | | |
| Compatibility | | No | | | | |

## TECHNICAL DRAWINGS



500

1500

1365

122

83

225

225

6-Ø6.5

4-M6

37

# ✕ 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.

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*"From your project's conception to its completion."*

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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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