

Hi-LED 55

Seamless, modular
LED video walls



alu**vision** 



Our mission is imagineering. We inspire & connect partners on their creative journey to design & build modular environments.

As innovative developer & worldwide supplier of high quality modular systems for the exhibit and event industry, Aluvision combines bold imagination with unmatched engineering and manufacturing expertise. The Aluvision frame system offers solutions for straight and curved walls, LED videowalls, hanging signs, light walls, displays & retail environments. Durability, reusability, precision, flexibility and modularity are the core features.

Founded in Belgium in 2003, Aluvision currently employs over 120 people and services more than 3 000 partners worldwide. The company has large production facilities and inspiring showrooms in Deinze (BE) and Atlanta (USA), as well as a warehouse in Sydney (AUS).

Create a powerful visual experience

Boost your presence! With Aluvision's integrated LED video walls, an extra dimension has been added to the renowned, original Aluvision frame system. The Hi-LED 55 is the thinnest tile that can be incorporated into a modular building system. Its unique dimensions of 496x496x55 mm allow a seamless integration of LED screens into the modular constructions. The combination of the Hi-LED 55 and the Aluvision frames offers a lightweight, sleek, easy-to-install, yet very solid end result. Enjoy a brilliant visual experience guaranteed by the 2.8 and 2.5 pixel pitch, CrystalView technology and premium level flatness.

Why choose Hi-LED 55?

- ✓ Straight & curved LED tiles for walls, ceilings and floors
- ✓ Advanced all-in-one design
- ✓ Quick, easy and toolless installation
- ✓ Full front & rear maintenance (both LED modules and power box)
- ✓ Raised flooring system
- ✓ One tile, endless solutions: Hi-LED 55+
- ✓ Specially developed flight cases for secure transportation
- ✓ Endless possibilities for assembly, including concave and convex mounting



Straight tiles

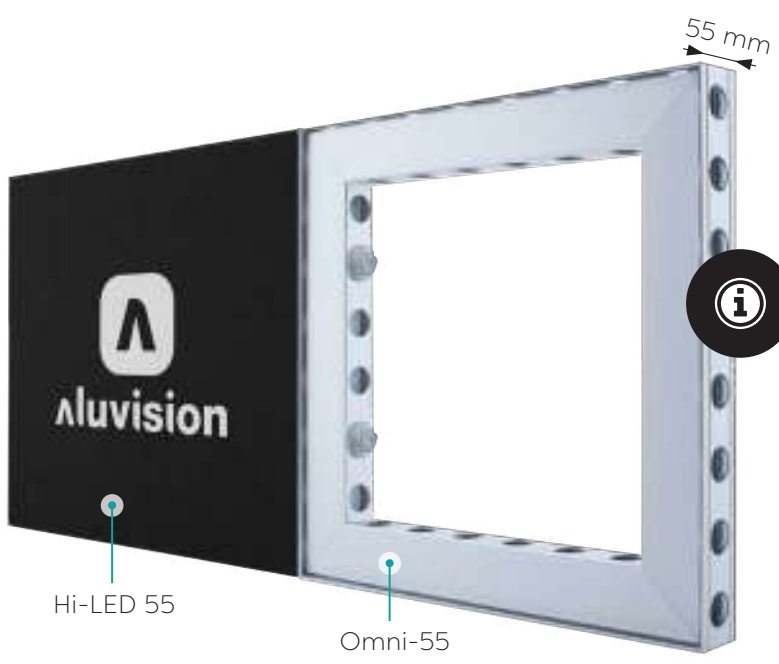
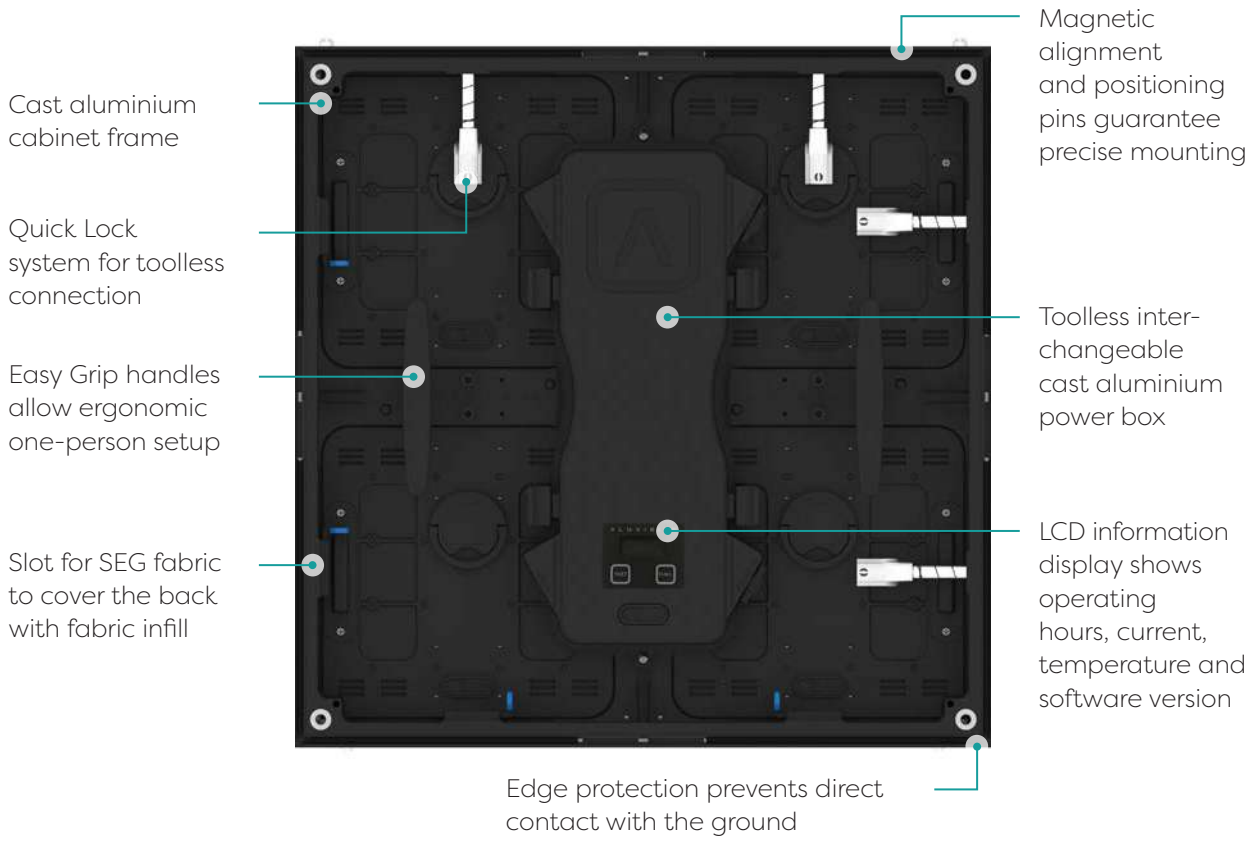
The thinnest LED tile available for seamless integration in a modular system. The patented, matte black click mask and black faced LEDs guarantee optimal contrast, ensuring vivid, crisp images and a supreme image quality.



**Unique dimensions:
496x496x55 mm**



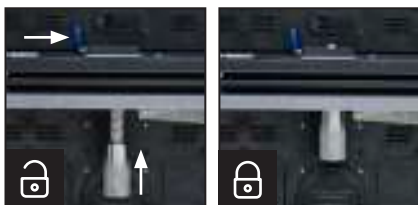
Advanced all-in-one design



Flush integration with the original Aluvision frame system

Quick and easy installation

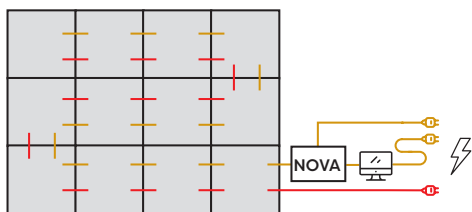
- ① Magnetic alignment & positioning pins ensure **precise mounting**
- ② **Easy Grip handles** allow ergonomic one-person setup
- ③ Outdoor-ready and interchangeable **power box**
- ④ **Quick Lock system** for toolless fixation



- ⑤ **Effortless wiring** with silicone rubber Super Flex power cable



— signal/data — power

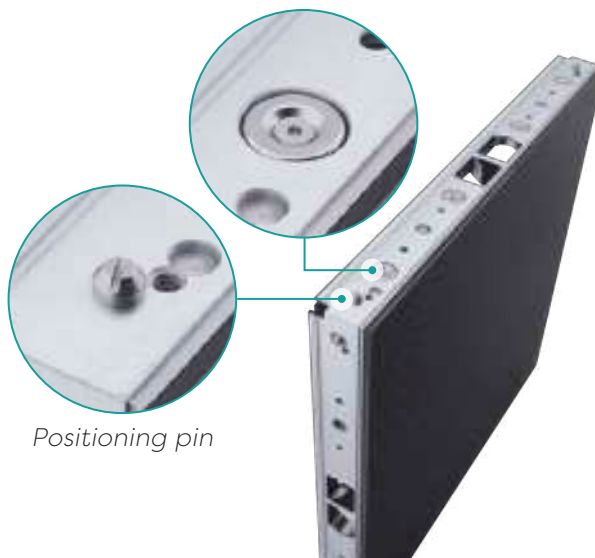


Hi-LED 55 chain

- **Signal/data cable:** connect up to 20 cabinets (2.8) / 17 cabinets (2.5) by using 1 cable
- **Power cable:** connect up to 18 cabinets (2.8) / 17 cabinets (2.5) by using 1 cable
- Both cables are **outdoor-ready**



Magnetic alignment

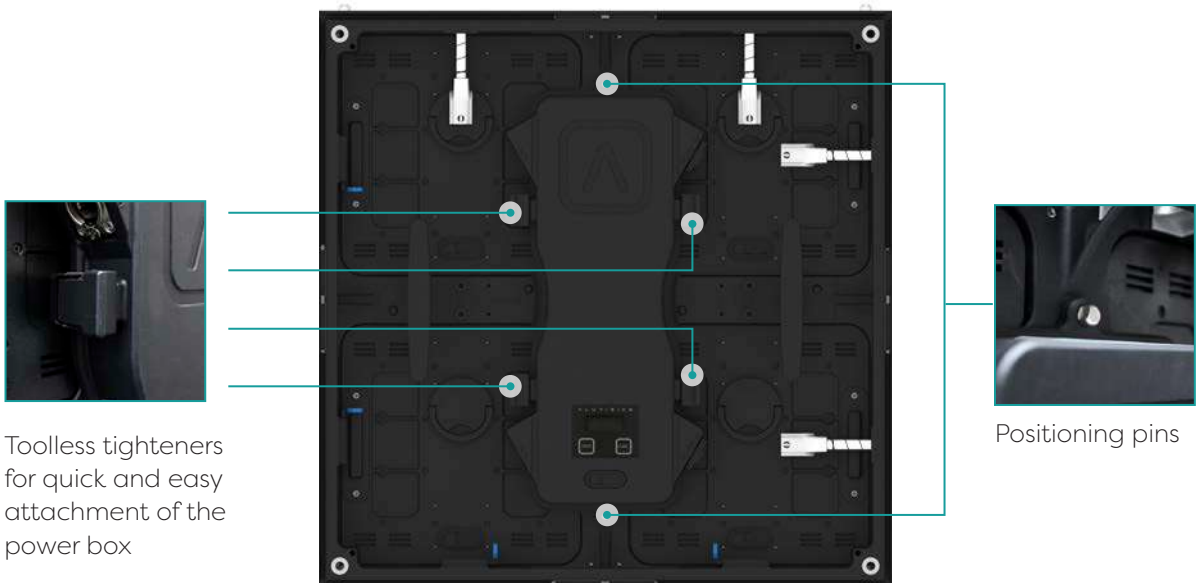


Positioning pin

Full front and rear maintenance



Front and rear access to interchangeable power box and LED modules



Toolless tighteners for quick and easy attachment of the power box

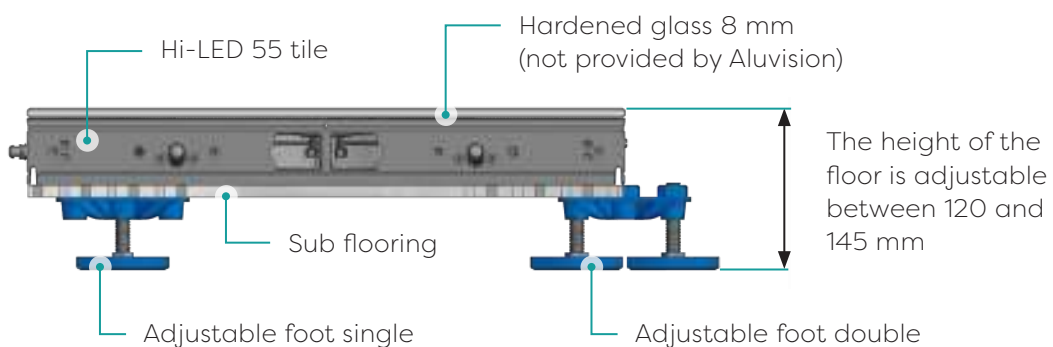
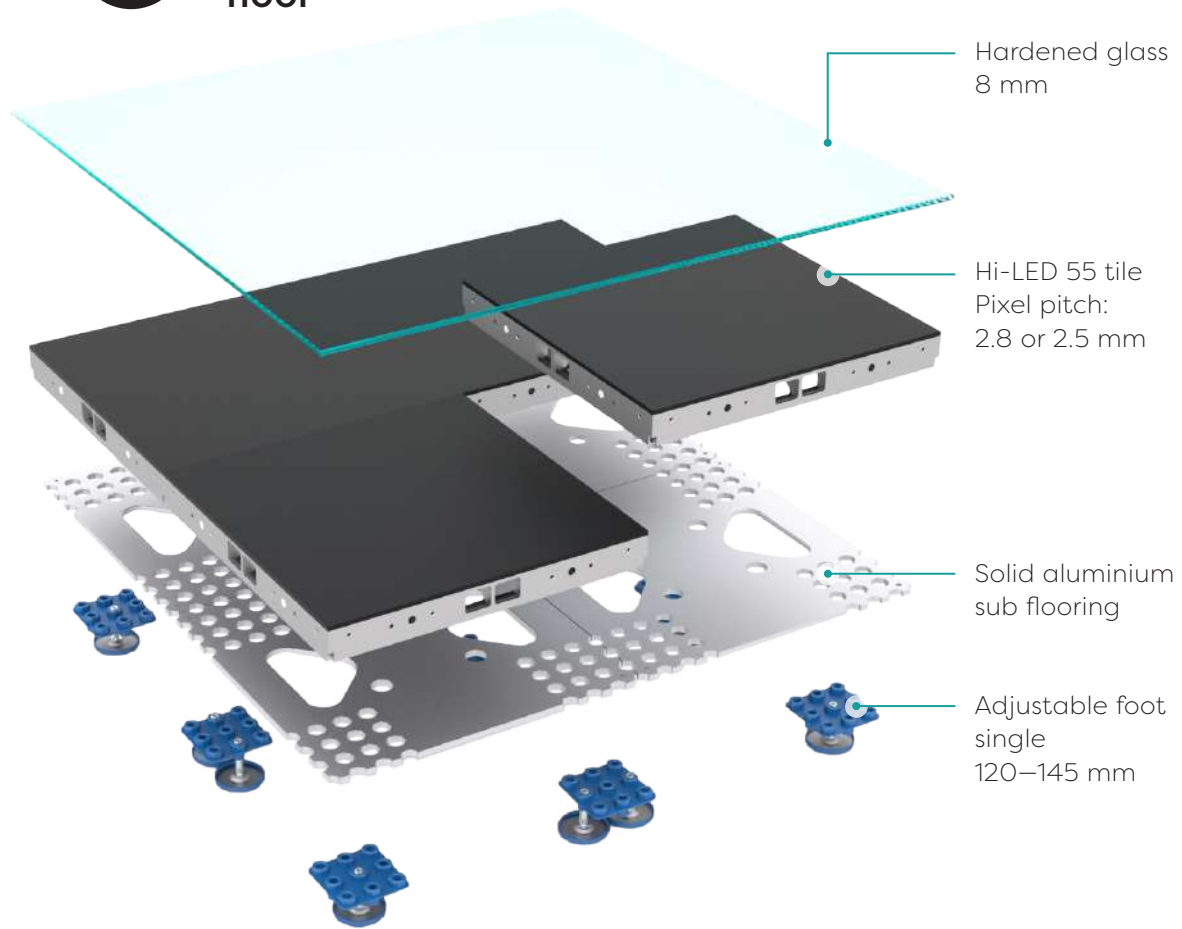


Positioning pins

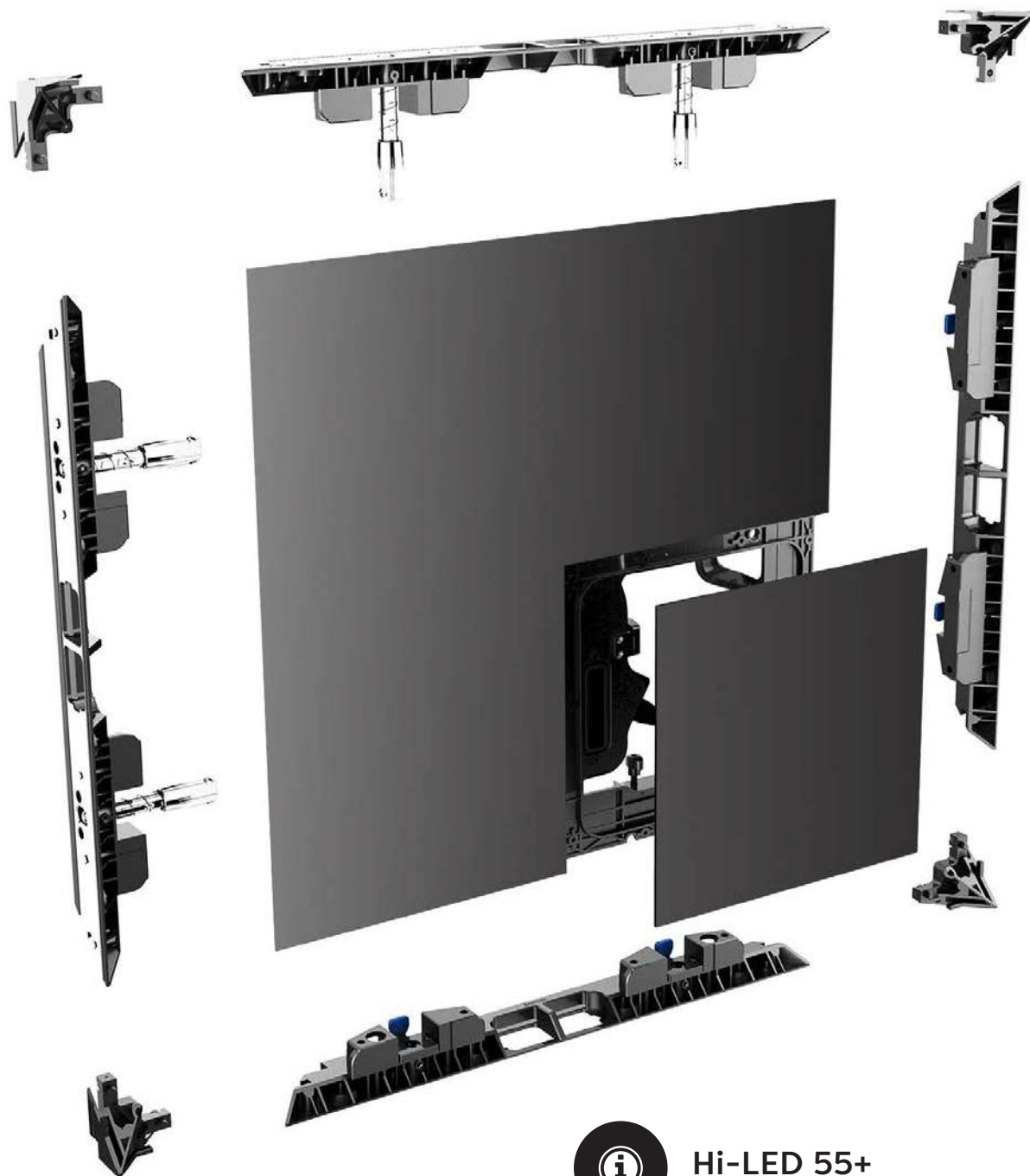
Raised flooring system



Hi-LED 55 floor



One tile, endless solutions



Hi-LED 55+

- Pitch 2.8 or 2.5 mm
- All modules have 4 chamfered sides
- Modules are compatible with Hi-LED 55
- Patented

Transform the most versatile LED tile into 5 different configurations

1

Straight tile

This is where it all begins. A convertible LED tile, fully compatible with the Aluvision frame system and Hi-LED 55.



2

Corner

Let's get the magic started & convert two tiles into a seamless 90° corner.

3

3D corner

Let's add a little extra, and create a 3D corner. Don't forget, all of this with just one building block.



4

Cube

Let's go all the way and create a cube. This tile is able to seamlessly finish up to 6 sides. Combine more Hi-LED 55 tiles to create different sizes.



5

Concave & convex

Let's create waves, curved walls, or any curved construction. Just go wild!



A quick how to ...



① Remove

Disconnect one side of the aluminium cast of each tile.



② Choose

Corners or curves? Add a 90° connector piece to one of the tiles to create a perfect corner or add a connector piece of -5° or -7.5° to create convex walls.



③ Connect

It's easy as 1-2-3. A quick, easy and toolless installation.



④ Impress

A seamless 90° corner to create a new and powerful visual experience.

Secure transportation



Stackable flight case for 10 LED tiles & accessories



Save space and effort with practical tipping wheels

↙ ↗ Size: 1191x585x763 mm (LxWxH)

🛒 Gross weight 2.8 mm: 153 kg
Gross weight 2.5 mm: 165,8 kg
Net weight: 55 kg



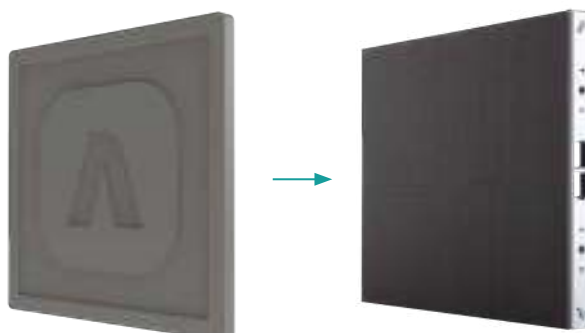
Hi-LED 55 module packaging box. Can hold 12 spare modules

↙ ↗ Size: 600x400x320 mm (LxWxH)

🛒 Net weight: 4,33 kg



Protective cover included with every LED tile



Endless options for assembly

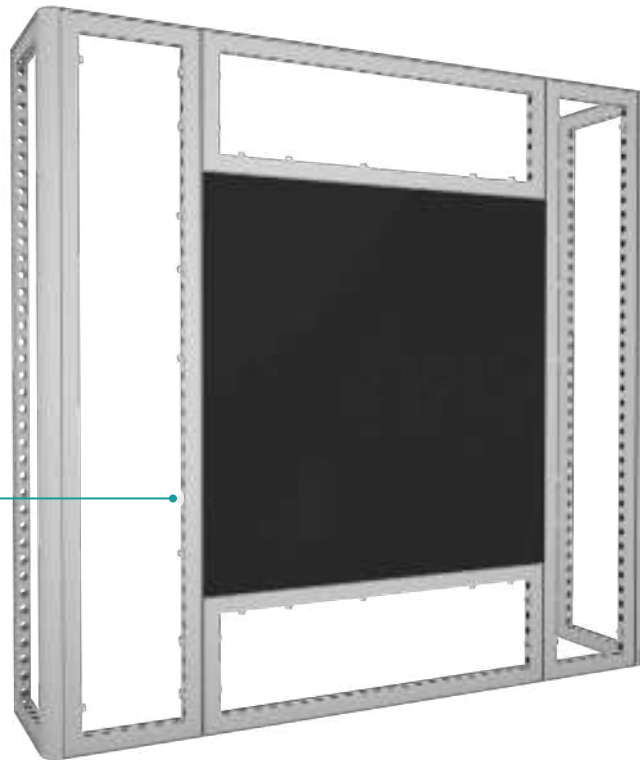


In line

Flush integration of the video wall. Fasten with standard quick tighteners "LS M6/D30*80".



Quick tightener "LS M6/D30*80"

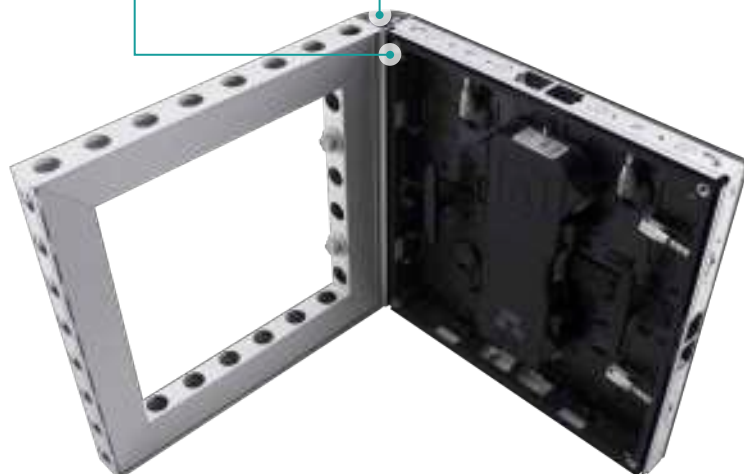
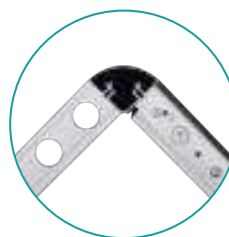


Corner

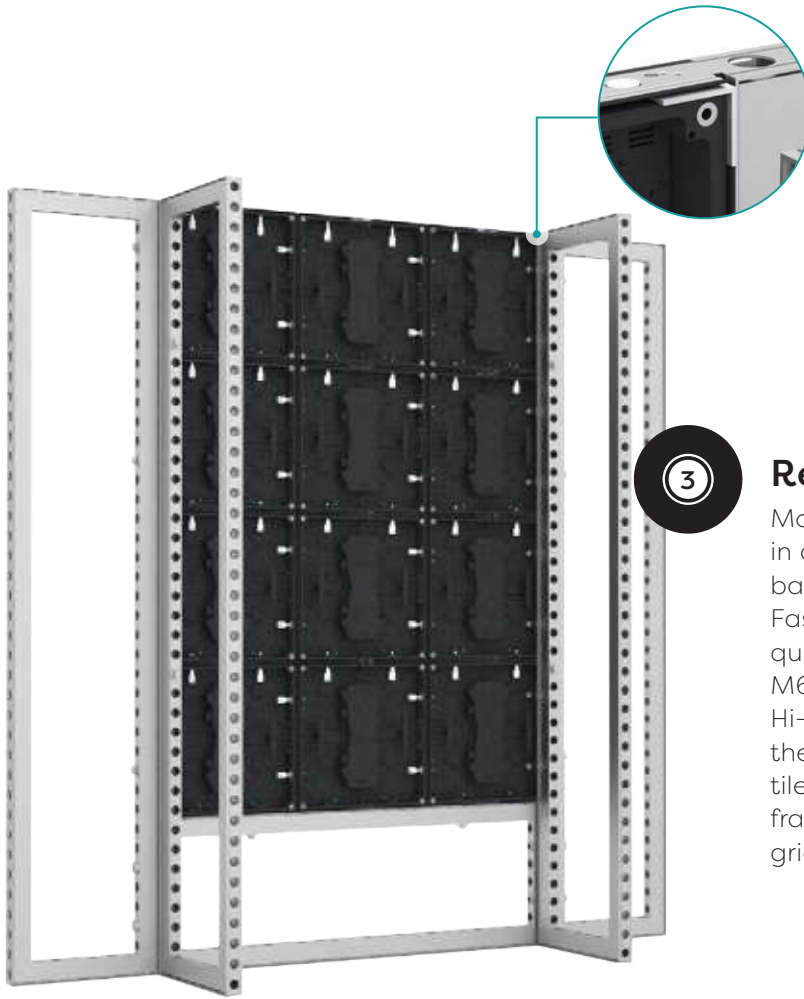
Compatible with all Aluvision corner profiles. Fasten with standard quick tighteners "M6*30".

Quick tightener "M6*30"

C90-corner, also available in black



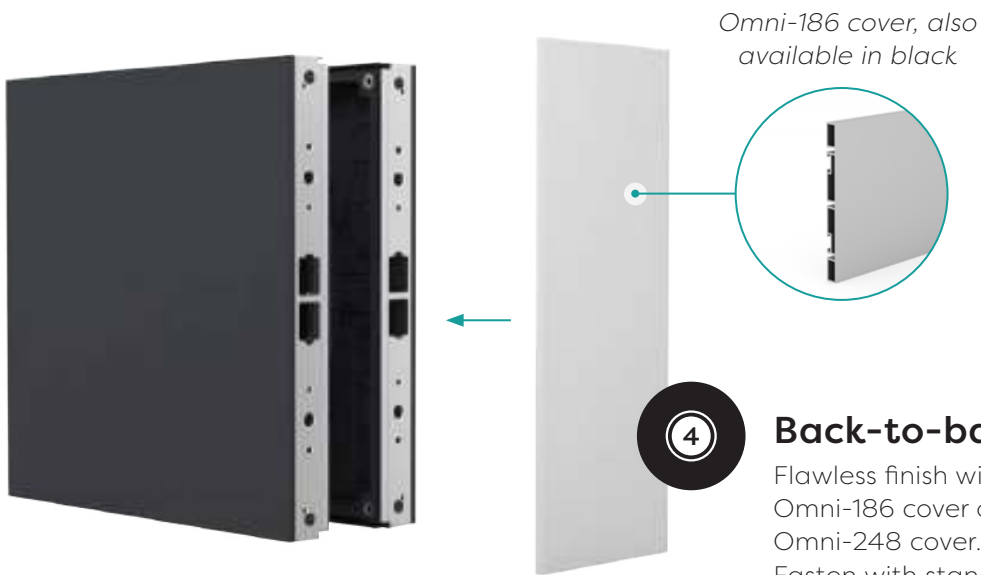
Hi-LED 55 X spacer



3

Rear support

Mount support frames in a 90° position to the back of the video wall. Fasten with standard quick tighteners “LS M6/D30*80”. Place the Hi-LED 55 X Spacers in the corners of your LED tiles to keep the support frames in our modular grid.

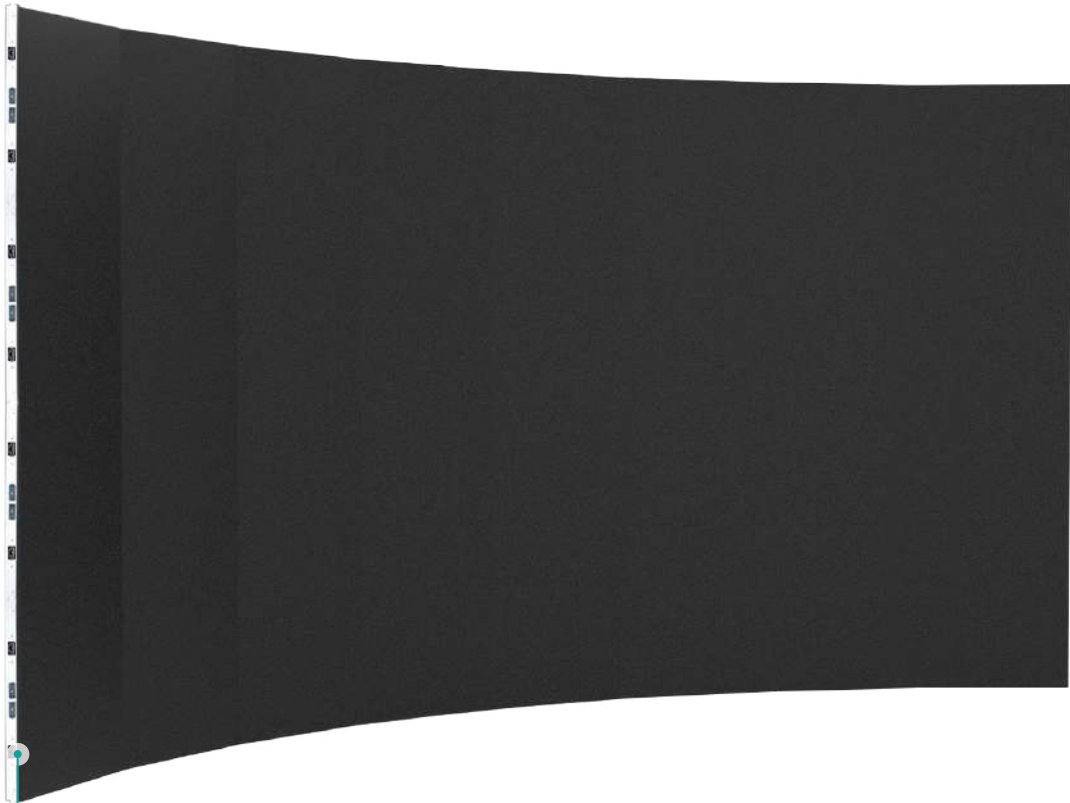


Omni-186 cover, also available in black

4

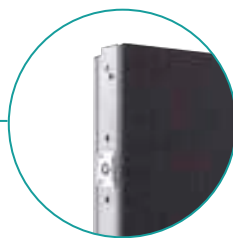
Back-to-back

Flawless finish with Omni-186 cover or Omni-248 cover. Fasten with standard quick tighteners “M6*30”.



Curved

Use standard straight Hi-LED 55 tiles in combination with colour-coded wedges to create a concave wall.



5°= R 5685 mm
White wedge



7.5°= R 3792 mm
Grey wedge



10°= R 2845 mm
Black wedge

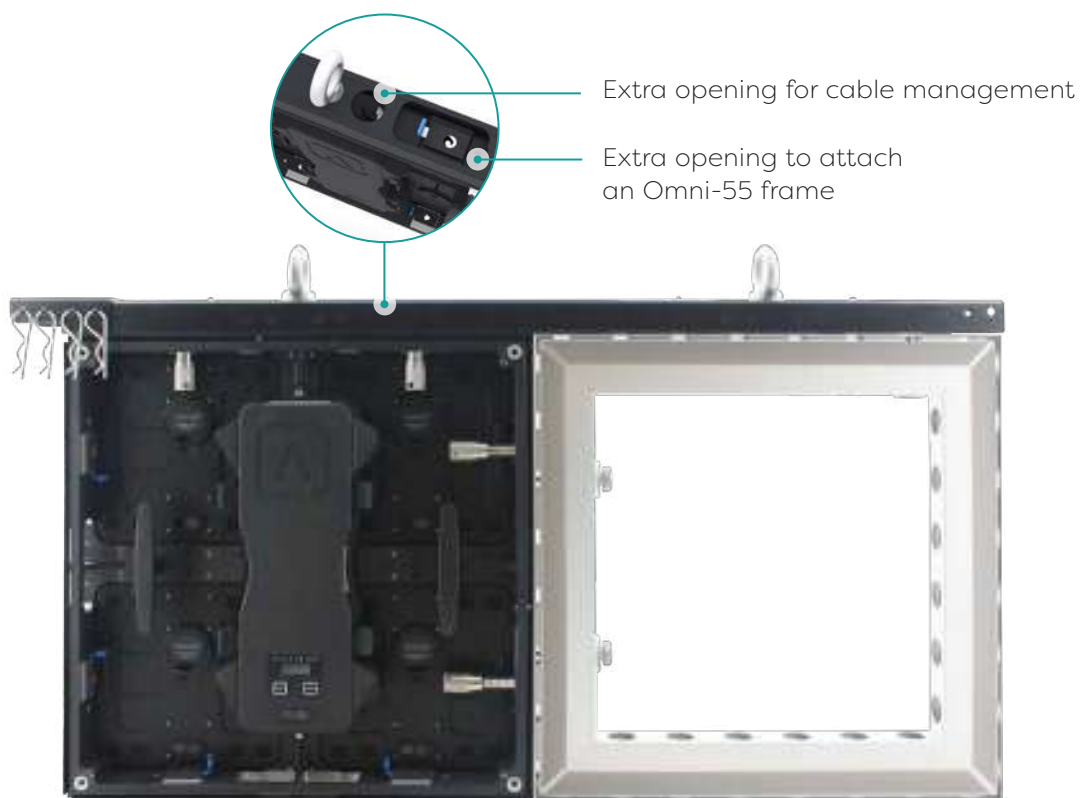


Suspended

Rigging bar for suspended wall & signage constructions; fixation with standard Quick Lock system.

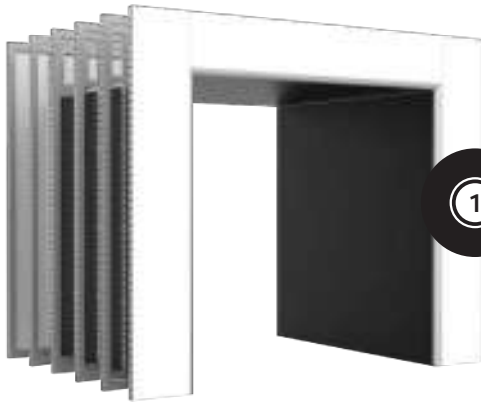
↙ ↗ Standard lengths: 496, 992, 1488 and 1984 mm

⚡ Magnetic connection for an easy positioning onto the hanging beam



Rigging bar used for ceiling constructions (hanging + reinforcement)

Assembly options examples



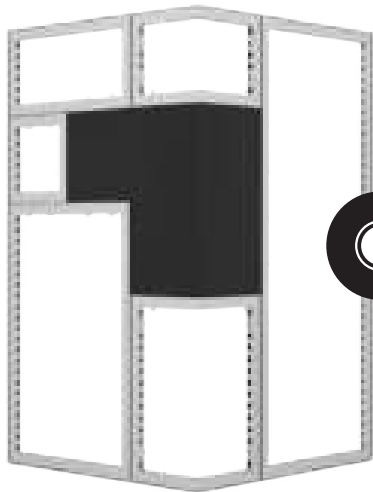
1

Tunnel configuration walls & ceiling



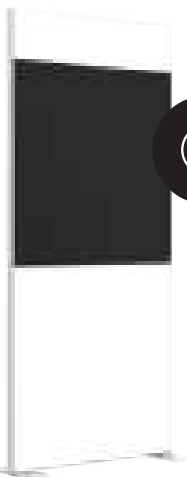
2

Column



3

Corner



4

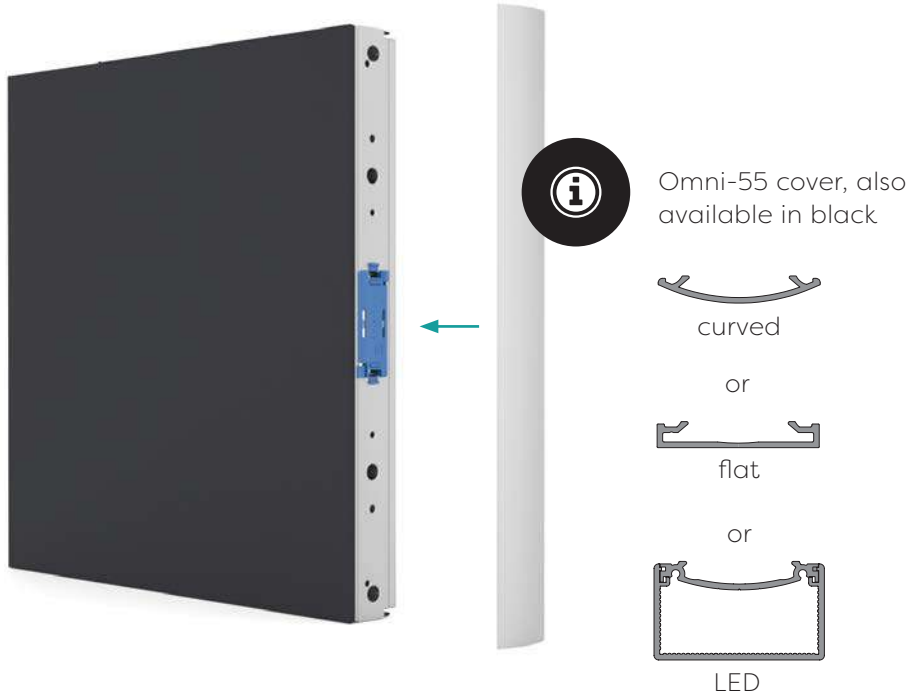
Display configuration



5

Immersive cube

Decorative finishing options



Hi-LED 55 accessories straight tiles



**Power cable
(Super Flex 10 m)**

18 tiles/cable max (2.8)
17 tiles/cable max (2.5)



**Signal/data cable
(20 m)**

20 tiles/cable max (2.8)
17 tiles/cable max (2.5)



NOVA sending box

(300, 660 or 660 pro)



**Interlink power cable
(Super Flex)**

(1, 3, 6 or 10 m)



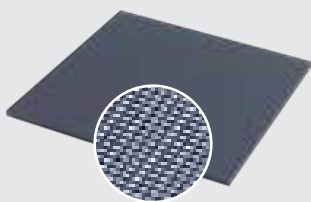
Interlink signal cable

(1, 3, 6 or 10 m)



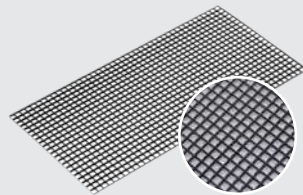
Power box

(2.8: Nova A4S, 2.5: Nova A8S)



LED module

(248x248 mm)



Click mask

(62x124 mm)



Magnetic wedges

(5°, 7.5° or 10°)



Rigging bar

(496, 992, 1488 or 1984 mm)



Protective cover

(513x513x30 mm)



**Vacuum maintenance
tool**

Technical specifications straight tiles



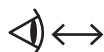
PIXEL PITCH

2.82 mm
2.58 mm



VIEWING ANGLE

140°/120°
(H/V)



VIEWING DISTANCE

2.8: ≥ 2,8 m
2.5: ≥ 2,5 m



SCREEN DIMENSIONS

496x496 mm



PIXEL DENSITY

2.8: 125910 px/m²
2.5: 149844 px/m²



MODULE RESOLUTION

2.8: 176x176 px
2.5: 192x192 px



CABINET WEIGHT

2.8: 9 kg
2.5: 10 kg



CERTIFICATION

CE/TUV/EMC/LVD/RoHS/
ETL/FCC



SENDING BOX (*)

Nova 300, 660,
660 pro



POWER BOX

2.8: Nova A4S
2.5: Nova A8S



OPERATING SYSTEM

Windows 2000/
XP/Vista/10



REFRESH RATE

3840 Hz



GRAYSCALE

14 Bit



CONTRAST RATIO

2.8: 5000:1
2.5: 7000:1



BRIGHTNESS

1000 nits



CONSUMPTION

2.8: 145 / 49 W/tile
2.5: 150 / 50 W/tile
(max/average)

(*) Max amount of tiles to be connected to one sending box: Nova 300 has 2 data ports, controls up to 40 tiles (2.8); 34 tiles (2.5). Nova 660 has 4 data ports, controls up to 74 tiles (2.8); 62 tiles (2.5) and allows easy adjustment of most basic functions. Nova 660 pro has 6 data ports, controls up to 74 tiles (2.8); 62 tiles (2.5). Nova 660 is advised for rental use.

Curved tiles

Be ahead of the curve with the Hi-LED 55 convex and concave tiles. Available in three different radii, these curved tiles can give your design a new twist.



Hi-LED R437 concave

- ¼ circle segment
- Pitch 2.8 or 2.5 mm
- Matches a standard Omni-55 A3 R437 frame v2



Hi-LED R437 convex

- ¼ circle segment
- Pitch 2.8 or 2.5 mm
- Matches a standard Omni-55 A3 R437 frame v2



Hi-LED R1476 concave

- ½ circle segment
- Pitch 2.8 or 2.5 mm
- Matches a standard Omni-55 A3 R1476 frame



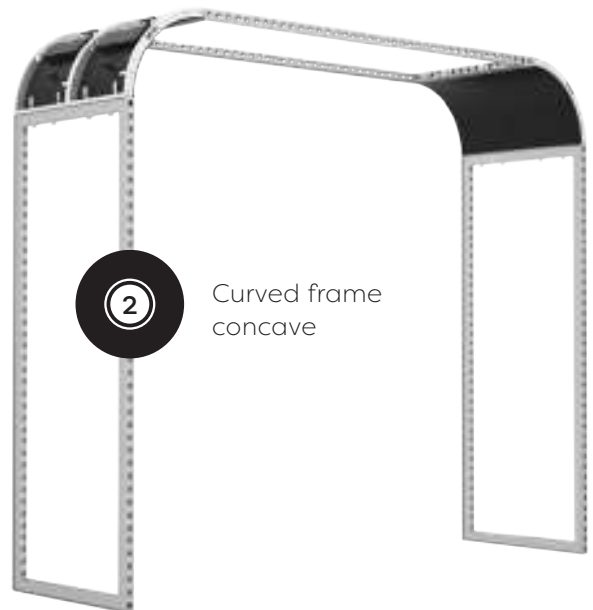
Hi-LED R1421 convex

- ½ circle segment
- Pitch 2.8 or 2.5 mm
- Matches a standard Omni-55 A3 R1421 frame

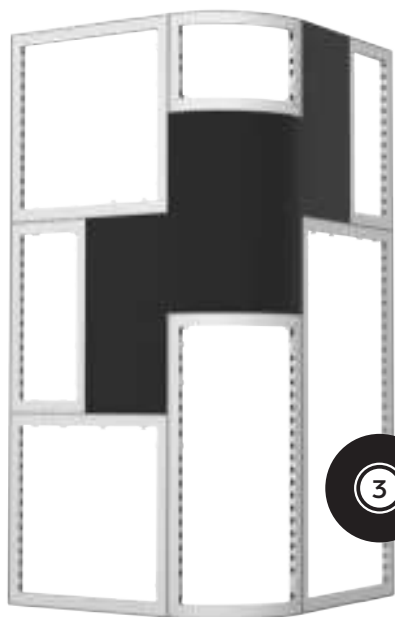
Assembly options examples



Tunnel configuration
walls & ceiling



Curved frame
concave



Curved frame convex
Create convex or concave curved
walls with the Hi-LED R437 tiles

Decorative finishing options



Omni-55 cover, also available in black



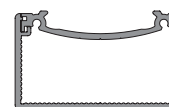
curved

or



flat

or



LED



Cover the back with panel (convex) or with panel and SEG fabric (concave)

Secure transportation



Stackable flightcase for 5 R437 concave/convex LED tiles

↗ Size: 1178x769x753 mm (LxWxH)

📏 Gross weight 2.5 mm: 132 kg
Net weight: 56 kg



Stackable flightcase for 7 R1476 concave or 7 R1421 convex LED tiles

↗ Size: 1178x873x753 mm (LxWxH)

📏 Gross weight 2.5 mm: 165 kg
Net weight: 67 kg



Protective cover included with every LED tile

Hi-LED 55 accessories

curved tiles



Power cable (Super Flex 10 m)

2.8: 12 tiles/cable max (R437 CC), 2.8: 14 tiles/cable max (R437 CV, R1421, R1476), 2.5: 12 tiles/cable max (R437 CC), 2.5: 10 tiles/cable max (R437 CV, R1421, R1476)



Signal/data cable (20 m)

2.8: 13 tiles/cable max (R437 CC), 2.8: 15 tiles/cable max (R437 CV, R1421, R1476), 2.5: 11 tiles/cable max (R437 CC), 2.5: 12 tiles/cable max (R437 CV, R1421, R1476)



NOVA sending box

(300, 660 or 660 pro)



Interlink power cable (Super Flex)

(1, 3, 6 or 10 m)



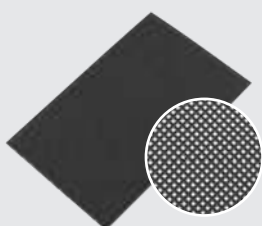
Interlink signal cable

(1, 3, 6 or 10 m)



Power box

(2.5: Nova ABS, 2.8: Nova A4S)



LED module

(R437 CC: 344x248 mm
R437 CV / R1421 / R1476:
386x248 mm)



Hi-LED R437 convex protective cover

(712x509x171 mm)



Hi-LED R437 concave protective cover

(656x509x159 mm)



Hi-LED R1421 concave protective cover

(782x509x80 mm)



Hi-LED R1476 convex protective cover

(787x509x81 mm)

Technical specifications

R437 concave (CC)
R437 convex (CV)



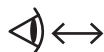
PIXEL PITCH

2.82 mm
2.58 mm



VIEWING ANGLE

2.8: 120°/120° (H/V)
2.5: 120°/120° (H/V)



VIEWING DISTANCE

2.8: ≥ 2,8 m
2.5: ≥ 2,5 m



SCREEN DIMENSIONS

CC: 689x496 mm
CV: 772x496 mm



PIXEL DENSITY

2.8: 125910 px/m²
2.5: 149844 px/m²



MODULE RESOLUTION

2.8 CC: 244x176 px
2.8 CV: 274x176 px
2.5 CC: 266x192 px
2.5 CV: 300x192 px



CABINET WEIGHT

14 kg



CERTIFICATION

CE/TUV/EMC/LVD/RoHS/
ETL/FCC



SENDING BOX (*)

Nova 300, 660,
660 pro



POWER BOX

2.8: Nova A4S
2.5: Nova A8S



OPERATING SYSTEM

Windows 2000/
XP/Vista/10



REFRESH RATE

3840 Hz



GRAYSCALE

14 Bit



CONTRAST RATIO

2.8: 5000:1
2.5: 6000:1



BRIGHTNESS

1000 nits



CONSUMPTION

2.8 CC: 181 / 61 W/tile
2.8 CV: 203 / 68 W/tile
2.5 CC: 209 / 70 W/tile
2.5 CV: 243 / 78 W/tile
(max/average)

(*) Max amount of tiles to be connected to one sending box: Nova 300 has 2 data ports, controls up to 26 tiles (2.8); 22 tiles (2.5). Nova 660 has 4 data ports, controls up to 47 tiles (2.8); 39 tiles (2.5) and allows easy adjustment of most basic functions. Nova 660 pro has 6 data ports, controls up to 47 tiles (2.8); 39 tiles (2.5). Nova 660 is advised for rental use.

R1476 concave (CC) R1421 convex (CV)



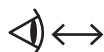
PIXEL PITCH

2.8: 2.82 mm
2.5: 2.58 mm



VIEWING ANGLE

140°/120°
(H/V)



VIEWING DISTANCE

2.8: ≥ 2,8 m
2.5: ≥ 2,5 m



SCREEN DIMENSIONS

772x496 mm



PIXEL DENSITY

2.8: 125910 px/m²
2.5: 149844 px/m²



MODULE RESOLUTION

2.8: 274x176 px
2.5: 300x192 px



CABINET WEIGHT

14 kg



CERTIFICATION

CE/TUV/EMC/LVD/RoHS/
ETL/FCC



SENDING BOX (*)

Nova 300, 660,
660 pro



POWER BOX

2.8: Nova A4S
2.5: Nova A8S



OPERATING SYSTEM

Windows 2000/
XP/Vista/10



REFRESH RATE

3840 Hz



GRAYSCALE

14 Bit



CONTRAST RATIO

2.8: 5000:1
2.5: 6000:1



BRIGHTNESS

1000 nits



CONSUMPTION

2.8: 203 / 68 W/tile
2.5: 243 / 78 W/tile
(max/average)

(*) Max amount of tiles to be connected to one sending box: Nova 300 has 2 data ports, controls up to 26 tiles (2.8); 22 tiles (2.5). Nova 660 has 4 data ports, controls up to 47 tiles (2.8); 39 tiles (2.5) and allows easy adjustment of most basic functions. Nova 660 pro has 6 data ports, controls up to 47 tiles (2.8); 39 tiles (2.5). Nova 660 is advised for rental use.

Look book





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