

Telion AG

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DIGITAL PROJECTION

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Consumer & Prof. Electronics

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SPINETIX



Abysen
LED



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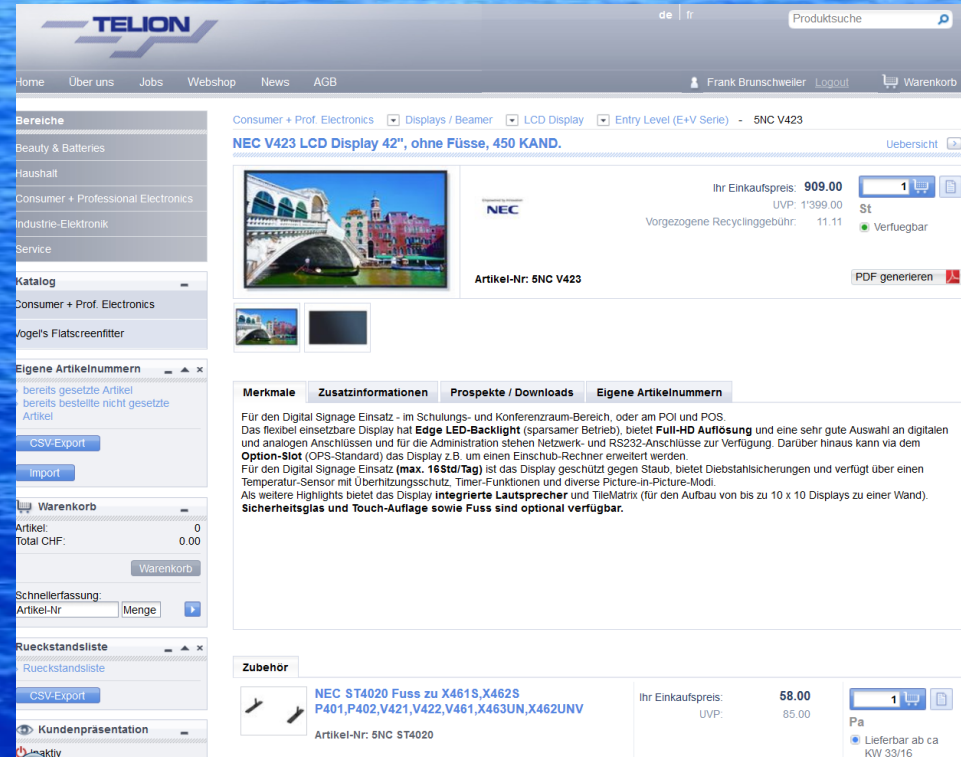
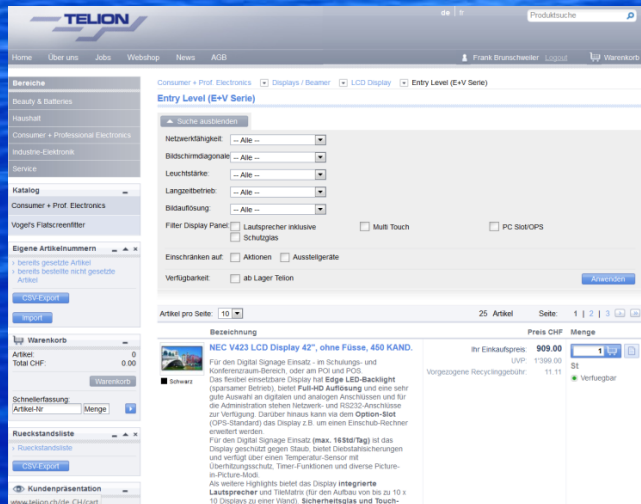
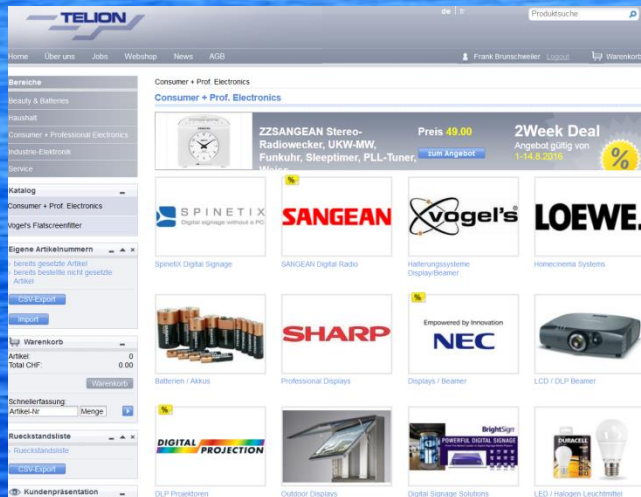
Panasonic

ideas for life

DIGITAL PROJECTION



Telion Webshop / www.telion.ch



Telion AG

Distributeur officiel d'ABSEN LED depuis le 1er septembre 2016

Telion se positionne déjà aujourd'hui comme l'un des principaux distributeurs à valeur ajoutée en Suisse.

Les panneaux LED prennent un rôle toujours plus important sur le marché mondial de l'affichage et les écrans LCD disparaissent déjà de certaines applications.

Avec l'assortiment complet d'ABSEN, nous voulons offrir à nos partenaires de nouvelles opportunités commerciales et techniques.



Leading LED Applications

COMPANY PROFILE

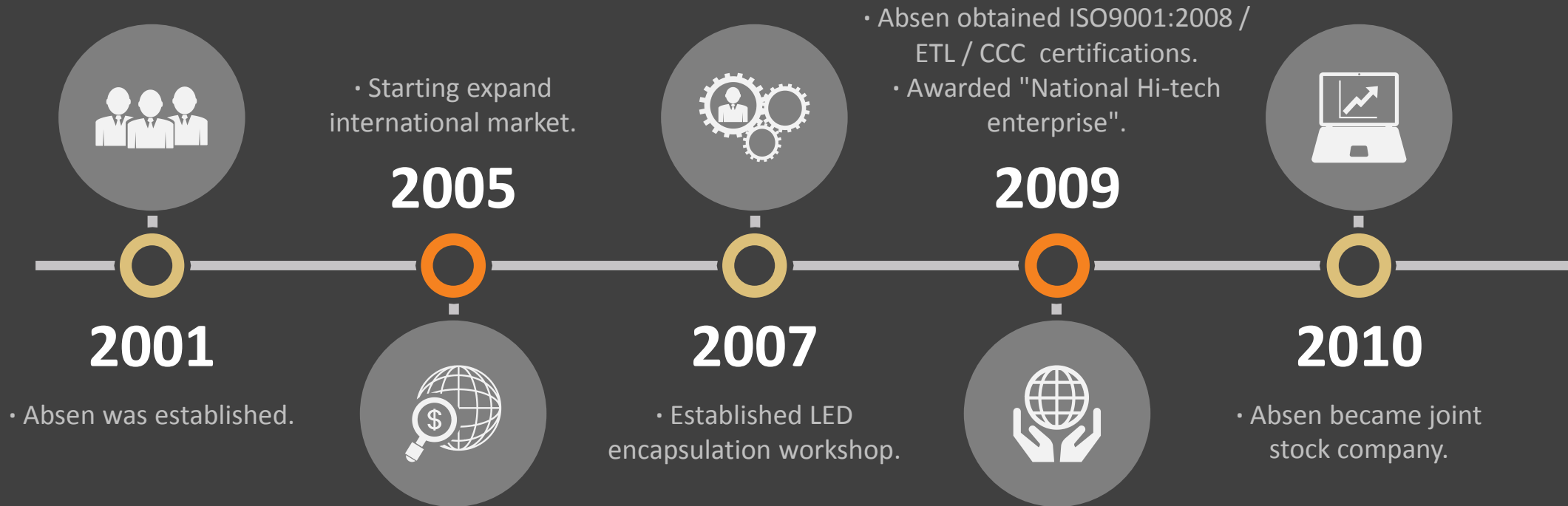


ABSEN BRAND

· Culture · History · Strength



HISTORY DISCOVERY



HISTORY DISCOVERY



- Absen optoelectronic industry park laid a foundation in Huizhou.

2011



2012

- On May 18th, Absen successfully passed IPO application.
- Awarded "Annual most influential enterprises in 2011".
- Absen America subsidiary opened at October.

- Absen GmbH subsidiary opened at April.

2013



2014

- On August 1st, Absen successfully listed in Shenzhen stock A shares Exchange market, stock code: 300389.
- Official Operation of Absen Huizhou Production Base.

2015



- Absen Dubai, Absen Japan, Absen Mexico, Absen Brazil, Absen Russia opened.
- Absen acquired 60% of VISS Lighting.

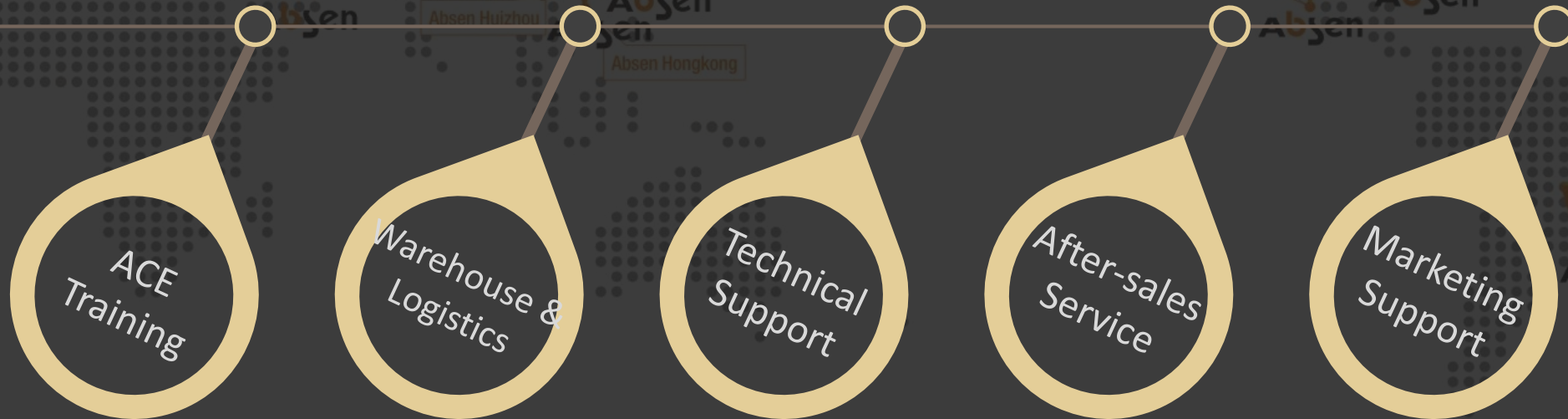
OVERSEAS SUBSIDIARIES



8+

Overseas Subsidiaries

USA Germany UAE Russia Mexico Brazil Japan HK



KEY FIGURES



120+

Countries
& Regions

32,000+

Successful References

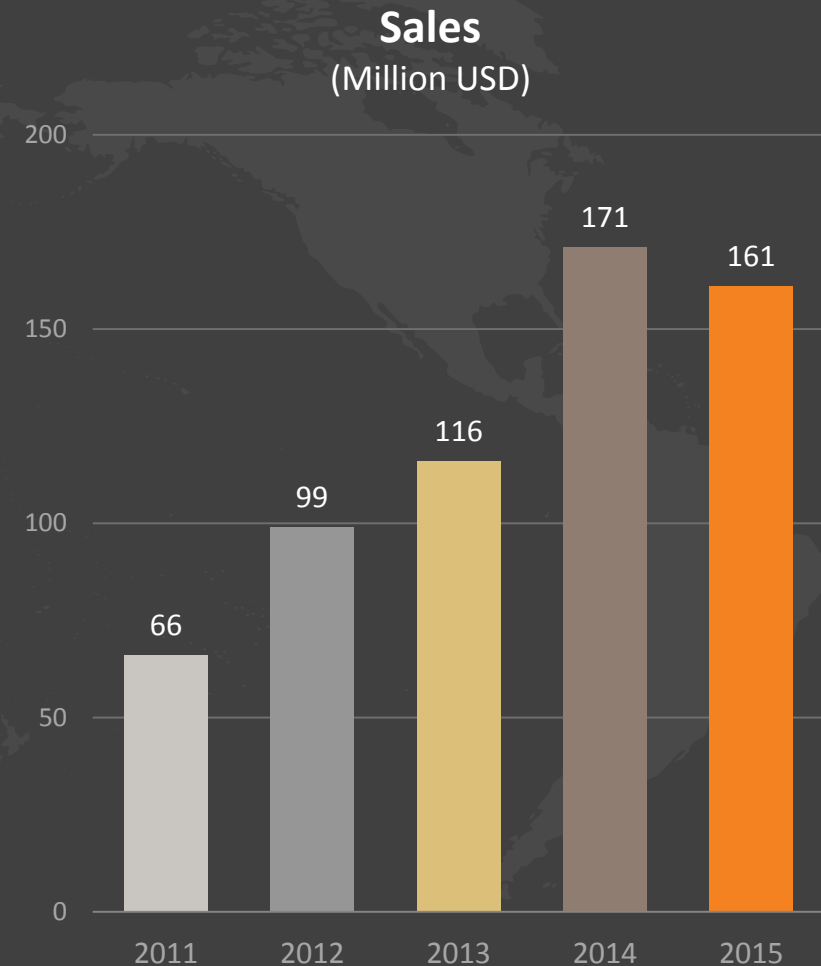
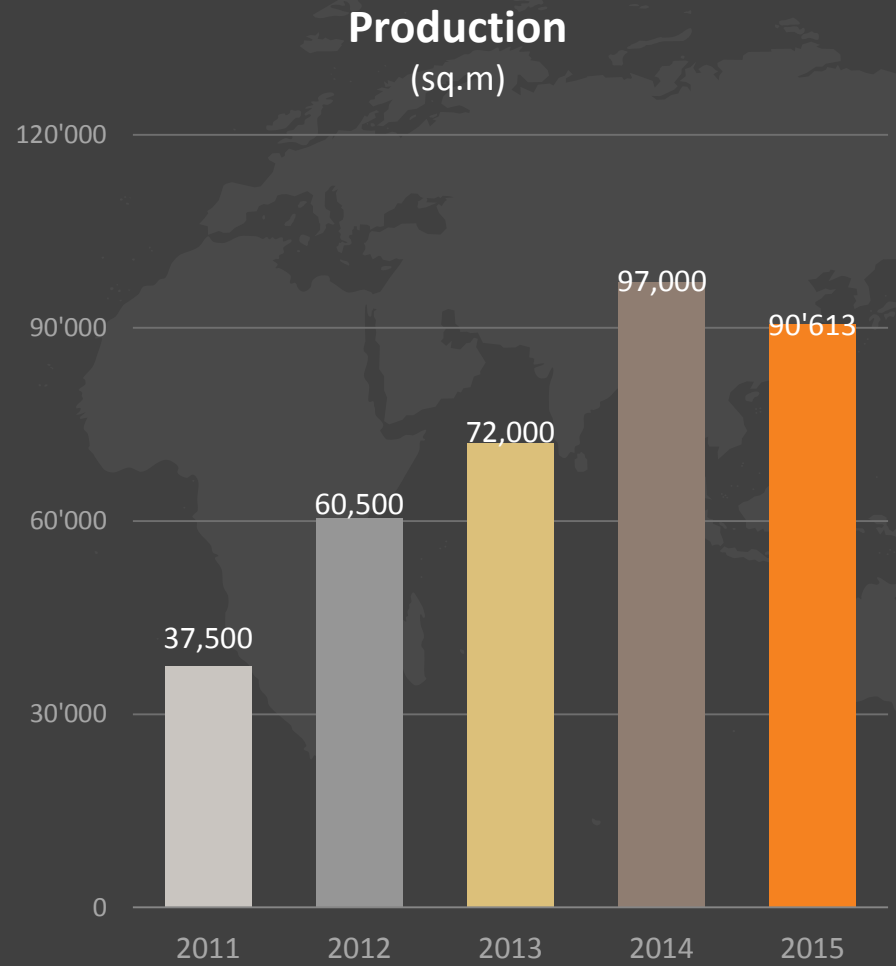
1,200+

Employees

IPO

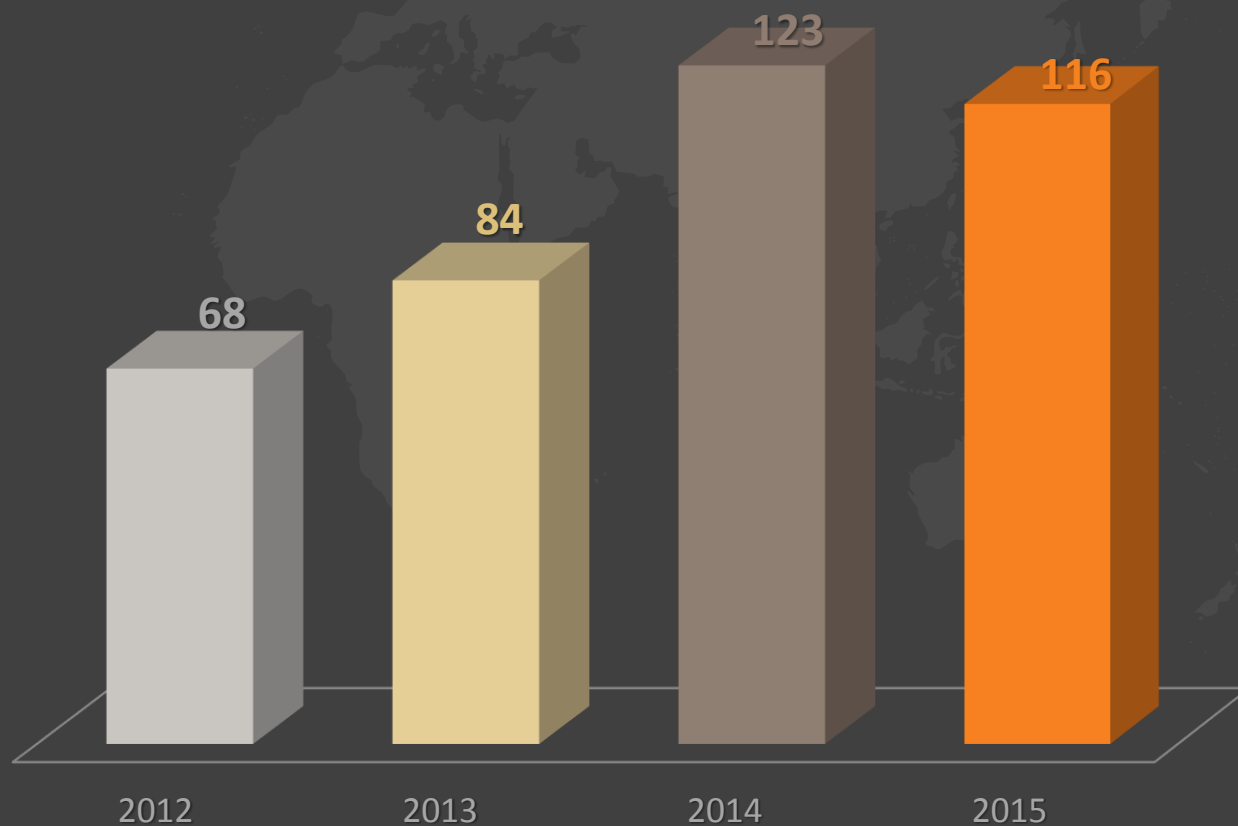
Listed in Shenzhen
stock A shares
exchange market.
Stock Code: 300389

KEY FIGURES



KEY FIGURES

LED Display Export (Million USD)



NO. **1** of export in **7** consecutive years
of all Chinese LED Display Manufactures.
(2009-2015)

NEW HEADQUARTERS



Move to **NEW Headquarters** in Cloud Park



HUIZHOU BASE



1st Session
Office Building



1st Session
Workshop Building



1st Session
Dormitory Building

2014

2014.08 - Official operation

2013.07 - Finished the main
structure construction

2011.06 - Laid foundation

2011



5 Market Segments

Corporate – Retail – Sports – Advertising – Sports

Indoor from 1,2mm Pixel Pitch

Outdoor from 4,44mm Pixel Pitch

Indoor Fixed Product Line

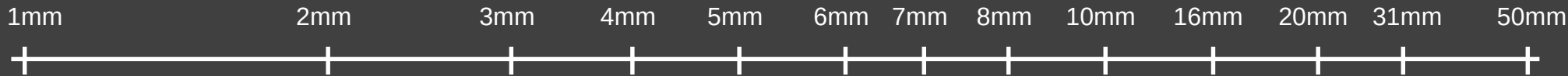


ABSEN PRODUCTS

· Advertising · Rental · Retail · Corporate · Sports

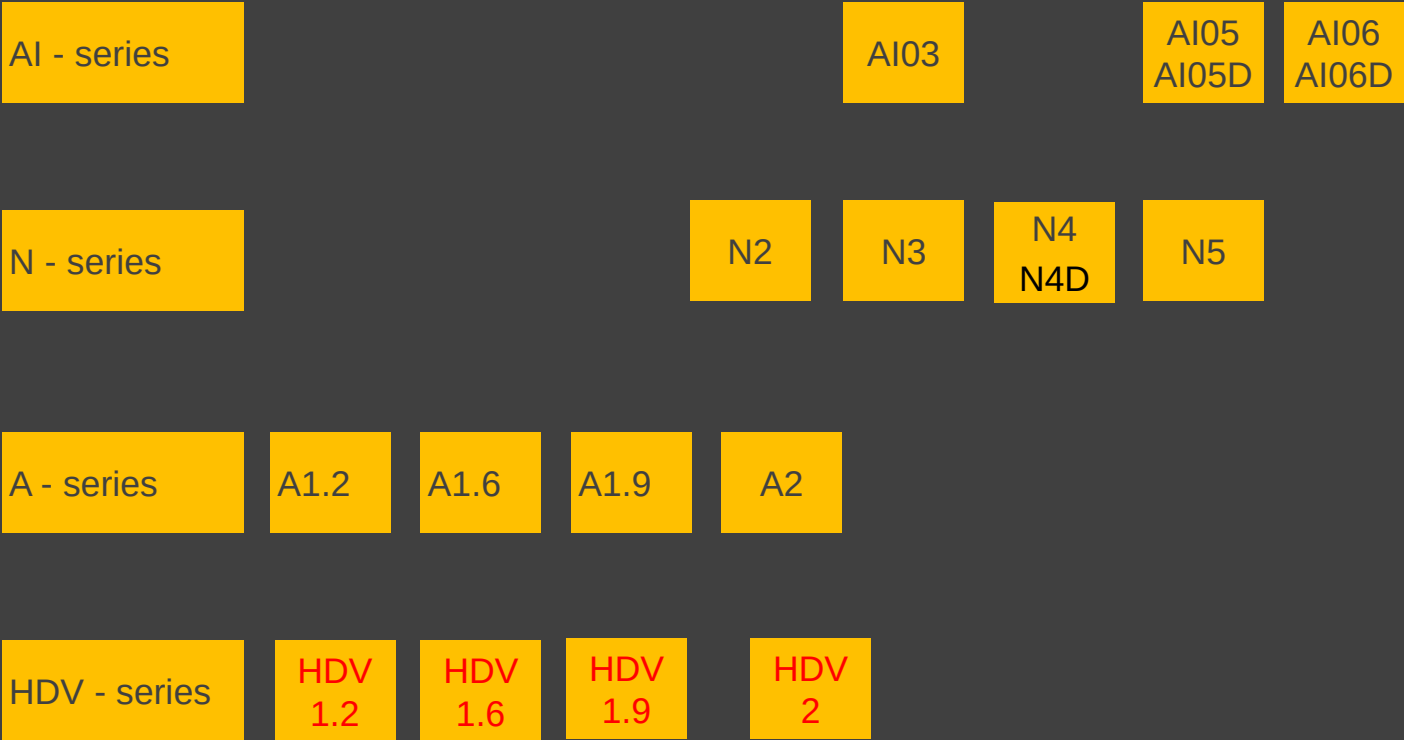


Indoor Fixed Product Line



Indoor
Fixed

UHD



Replaced
Phase Out

New Develop

Launch Prep

Indoor

Outdoor

Product brief - A1.2, A1.6, A1.9, A2



Panel Size: 400mm×300mm×120mm, Weight: 7.2kg

Applications

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LED



TV Station



High-end Conference Center



Business Gallery



Control Room



Command Center

Selling Points

Excellent display performance:

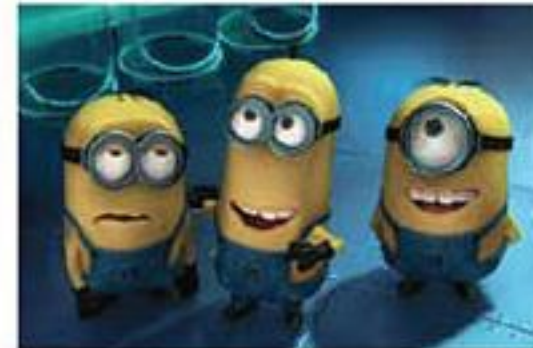
- Over 3.840Hz refresh rate, provides vivid image without flickering;
- No black light or cross under professional cameras



Selling Points

Excellent display performance:

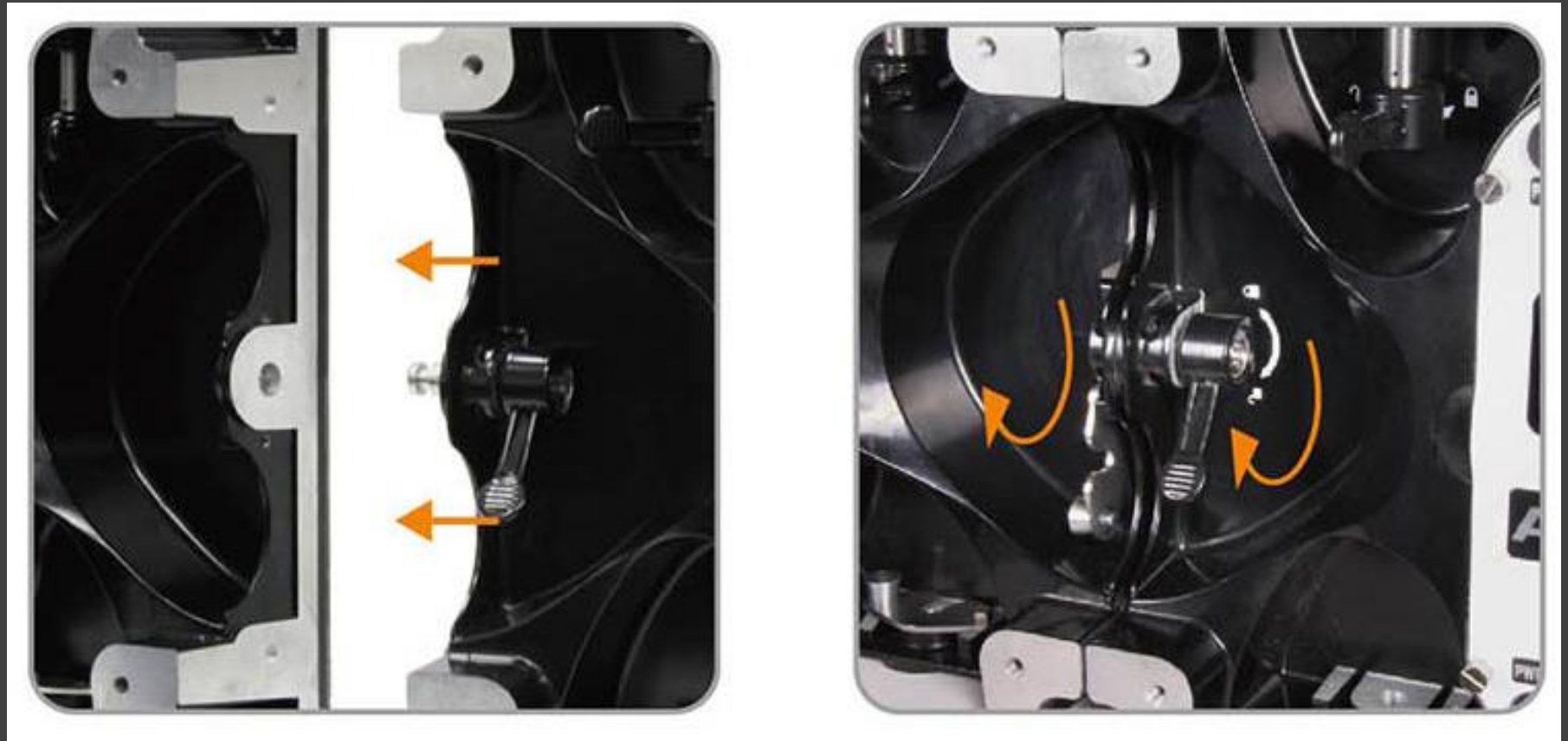
- 160/160 degree viewing angle, allows audiences to watch from any angle.



Selling Points

Seamless splicing, gap adjustable:

- Rental structure design, fast mounting.
- Gap adjustable



Selling Points

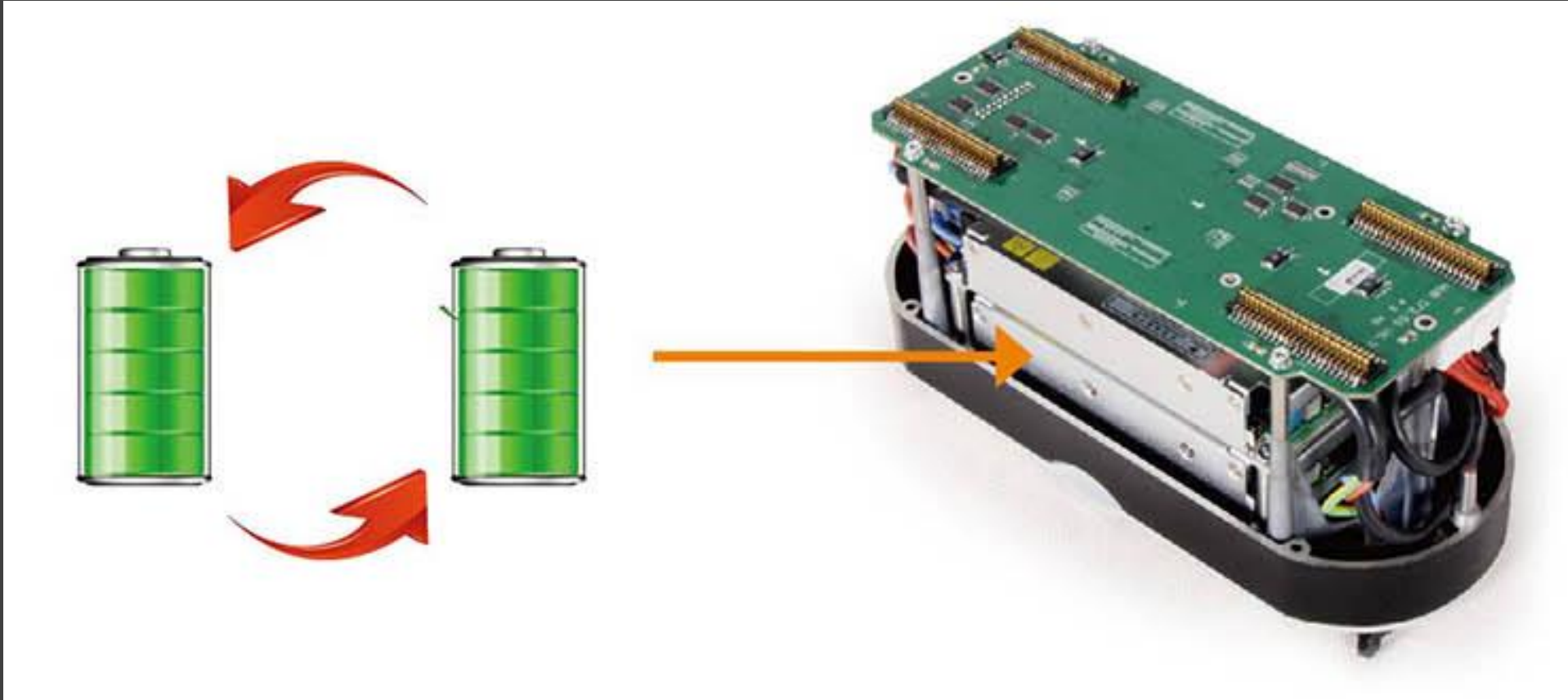
User-friendly design:

- LCD information window, real time operating status monitoring (voltage, temperature, operating time, software version)
- External test button



Selling Points

- Dual power design(only on 1.2mm and 1.6mm)
- Modular power box easy for maintenance



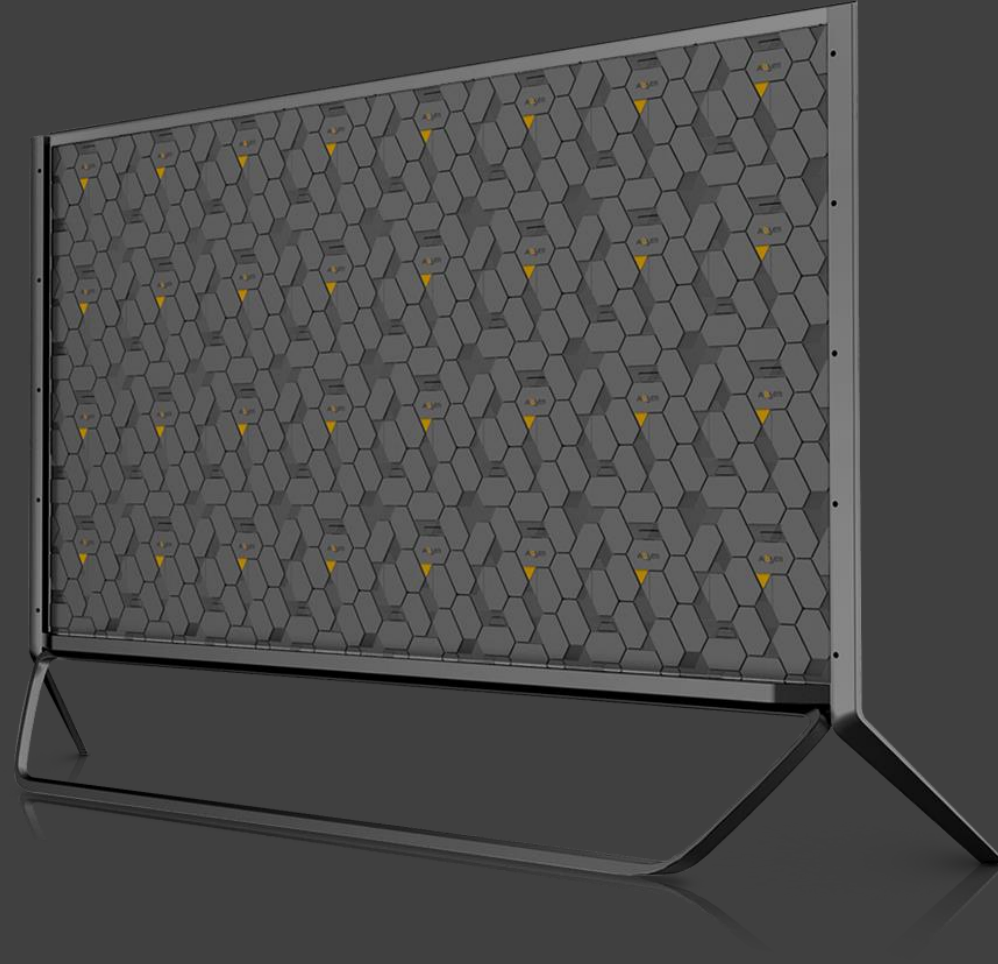
Specification



Parameter	A1.2	A1.6	A1.9	A2.5	Unit
Pixel Pitch	1.25	1.667	1.923	2.5	mm
Brightness	600	800	1000	1200	nit
Panel Size (LxWxH)	400*300*120	400*300*120	400*300*95	400*300*95	mm
Material	Die-casting aluminum				—
Weight per panel	7.2	7.6	6.7	6.7	kg/panel
Pixel Configuration	1010 SMD 3in1	1010 SMD 3in1	1515 SMD 3in1	1515 SMD 3in1	—
Contrast Ratio	3400:1	3000:1	3300:1	2500:1	
Module Size	200*150	200*150	200*150	200*150	mm
Pixel Matrix	320*240	240*180	208*156	160*120	pixels
Pixel Density	640,000	360,000	270,400	160,000	pixel/m ²
Refresh Rate	≥3840	≥3840	≥3840	≥3840	Hz
Gray Scale	16384 (14bit)	16384 (14bit)	16384(14bit)	16384 (14bit)	level
Viewing Angle(Hor/Ver)	160/160	160/160	160/160	160/160	degree
IP Rating (F/R)	IP40/IP21	IP40/21	IP40/21	IP40/21	—
AC Input Power(Max/Ave)	790/265	640/215	515/170	570/190	w/m ²
Driving Type	1/30	1/30	1/26	1/20	—

HDV Series

Abjen
LED



HDV series installation - rigging





Video HDV-Series

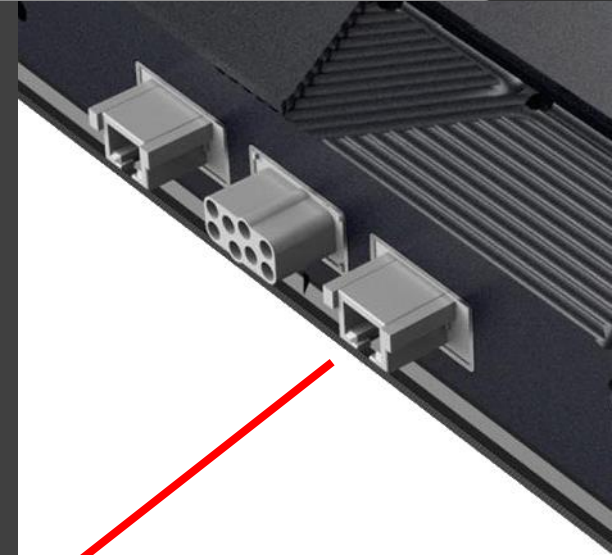
HDV series product introduction – The appearance of the panel

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HDV series product introduction – The connection between the panel

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LED



connector



HDV series product introduction – Front maintenance with magnet tool

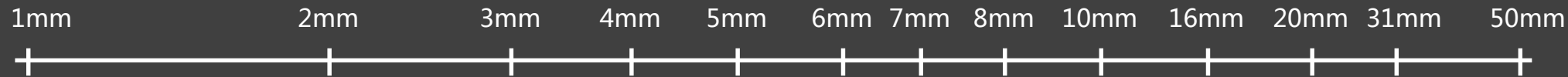
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UHD product line A-Series vs HDV-Series



2 product platforms
8 products



Small pixel
pitch
UHD

A series	A1.2	A1.6	A1.9	A2.5
HDV series	HDV 1.2	HDV 1.6	HDV 1.9	HDV 2.5

HDV series panel size is 400X450mm, A series panel size is 400X300mm.

2 Panels of HDV = 16:9 Format

HDV series can be front installed and front maintained, A series can not.



- Thin
- Homogenous picture
- Can front install against wall (can also install from back)
- Complete front maintenance (also complete rear maintenance)
- The AC power supply is placed out of the panel, good for heat radiation
- Nice appearance, no cable behind the panel

Appendix : HDV series splice 720P/1080P/2K video wall dimensions



Pixel Pitch	Panel Size	Panel Pixel	720P(1280X720)			1080P(1920X1080)			2K(2048X1152)		
			Size (inch)	Size (M)	Number of boxes	Size (inch)	Size (M)	Number of boxes	Size (inch)	Size (M)	Number of boxes
1.923mm	400X450mm	208*234							180 inch	4m x 2.25m	10 x 5
1.667mm	400X450mm	240*270				144 inch	3.2m X1.8m	8 x 4			
1.25mm	400X450mm	320*360	72 inch	1.6m x 0.9m	4 x 2						

Appendix :

HDV Series - main technical parameters



Parameters	HDV 1.2	HDV 1.6	HDV 1.9	HDV 2	Unit
Pixel pitch:	1.25	1.667	1.923	2.5	mm
Brightness:	600	800	1000	1200	Nits
Refresh frequency:	3840	3840	3840	1920	Hz
Gray scale :	16384	16384	16384	16384	Level
Gray scale per color:	14	14	14	14	bit
Viewing angle (H/V):	150/130	150/130	150/130	150/130	Degree
Power consumption	990/330	570/190	515/170	570/190	w/sq.m.
Cabinet size (L×W×H):	400x450x55	400x450x55	400x450x55	400x450x55	mm
Cabinet weight:	7	7	7	7	kg
Pixel matrix per cabinet:	320*360	240*270	208*234	160*180	pixel
Operating temperature :		-10~ 40			°C

The main function of HDV series products: comparison with competitors



Function	Absen	Leyard	Unilumin
Panel thickness	65mm	99mm	75mm
Complete front maintenance	√	x	x
Complete front installation	√	x	x
Panel with 48V safety power supply	√	x	x
AC power is placed out of the panel	√	x	x
Nice appearance, no cable behind the panel	√	x	x



Video N-Series

N-Series - Key words



- Front service and front installation
- Slim, elegant and noise free cabinet design
- Smart modules, monitoring function
- Maximum flexibility in Installation and size
- Curved mounting
- 90° corner-installation
- N4 with 1.000cd, 2.500cd and 4.000cd brightness – shop window installation!

Product Brief: N4



- Panel size: 1152×288x54mm , Weight: 8.8kg, Module size: 288x288mm

Monitoring



Receiving card

Sending card

Module

PSU voltage

Flat cable

Temperature

Pixel

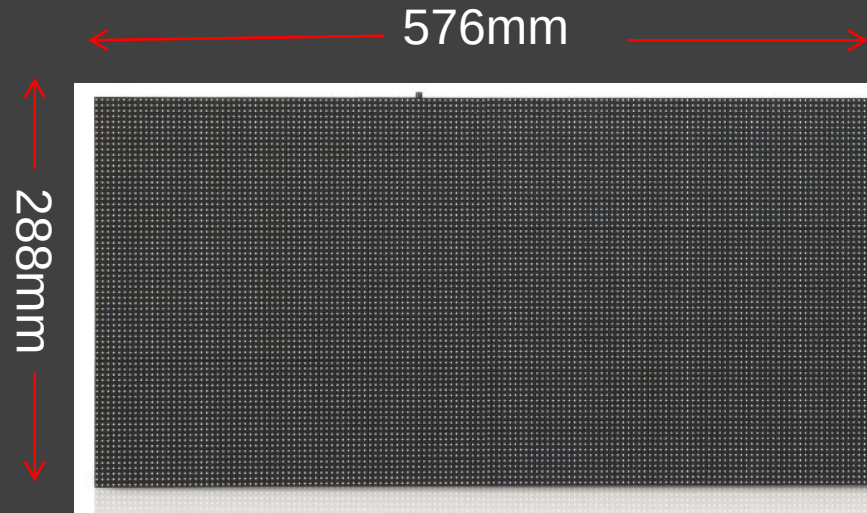
- Real time monitor work status, email when malfunction
- Monitoring via PC, Tablet, Mobile phone available.

Parameters



Parameters	N3	N4	N5	Unit
Technical				
Pixel Pitch	3.2	4	5.14	mm
Pixel Configuration	Black SMD2121	Black SMD2121	Black SMD2121	—
Brightness	1000	1000	1000	nit
Refresh Rate	1920	1920	1920	Hz
Gray Scale per Color	65536	65536	65536	level
AC Input Power(Max/Ave)	450/150	450/150	450/150	w/sq.m
Viewing Angle(Hor/Verl)	160/140	160/140	160/140	Deg.
Panel				
Panel Size	1152x288x54	1152x288x54	1152x288x54	mm
Pixel Matrix	360x90	288x72	224x56	pixels
Weight	8.8	8.8	8.8	kg
Material	Aluminum alloy	Aluminum alloy	Aluminum alloy	—
IP Rating (F/R)	IP50/IP51	IP50/IP51	IP50/IP51	—
Operating Temperature	- 10~+40	- 10~+40	- 10~+40	°C

Product Brief - N2



- Panel size is 576×288x57mm
- Panel weight 5kg
- Module size is 288x288mm
- Noise free design
- Front & rear servicing and installation.



Specification



Parameter	N2	Unit
Pixel Pitch	2.4	mm
Brightness	1000	nit
Panel Size (LxWxH)	576x288x57	mm
Material	aluminum	—
Weight per panel	5	kg/panel
Weight per m ²	30	kg/m ²
Pixel Configuration	1010 SMD 3in1	—
Pixel Matrix	240*120	pixels
Refresh Rate	1920	Hz
Gray Scale	65536(16bit)	level
Viewing Angle(Hor/Ver)	160/140	degree
IP Rating (F/R)	IP50/IP51	—
AC Input Power(Max/Ave)	720/240	w/m ²

Airports, Train Stations, Retail, Shopping Mall,
Museums, Banks, Conference Rooms, etc.

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Airports, Train Stations, Retail, Shopping Mall,
Museums, Banks, Conference Rooms, etc.

Absen
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Airports, Train Stations, Retail, Shopping Mall,
Museums, Banks, Conference Rooms, etc.

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Museums, Banks, Conference Rooms, etc.

Absen
LED



Airports, Train Stations, Retail, Shopping Mall,
Museums, Banks, Conference Rooms, etc.

Absen
LED



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Museums, Banks, Conference Rooms, etc.

Absen
LED



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Museums, Banks, Conference Rooms, etc.

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LED



Outdoor Fixed Product Line

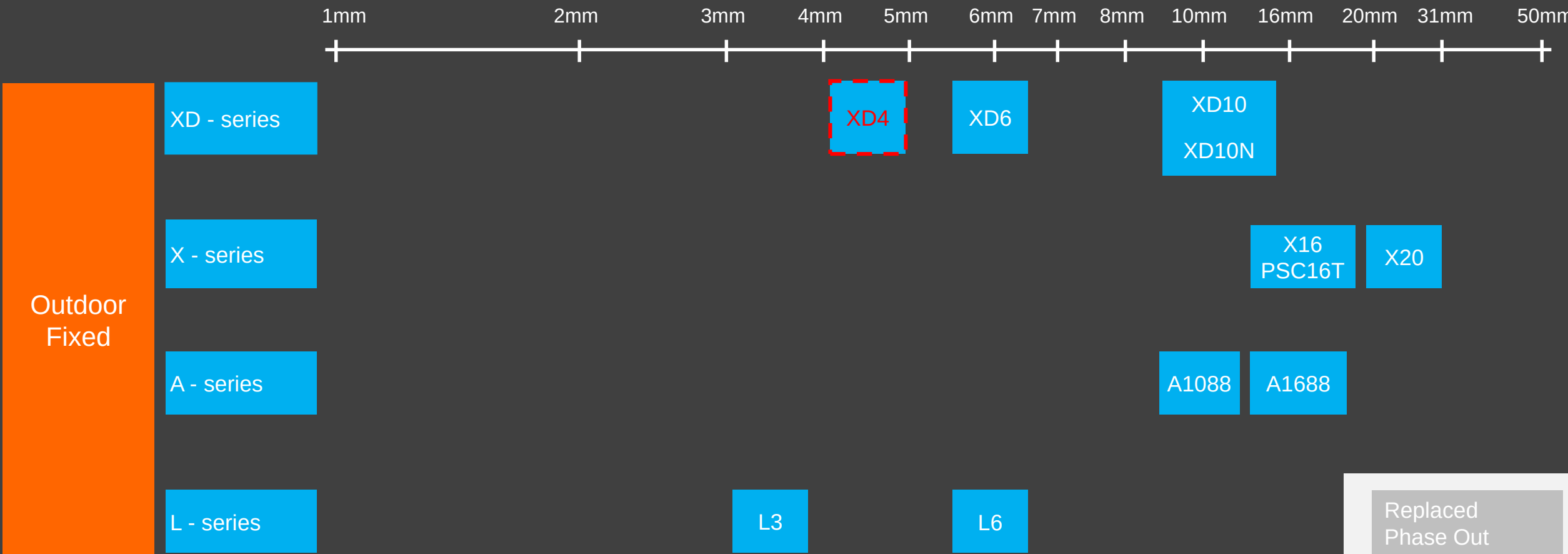


ABSEN PRODUCTS

· Advertising · Rental · Retail · Corporate · Sports



Outdoor Fixed Product Line



Outdoor
Fixed

Replaced
Phase Out

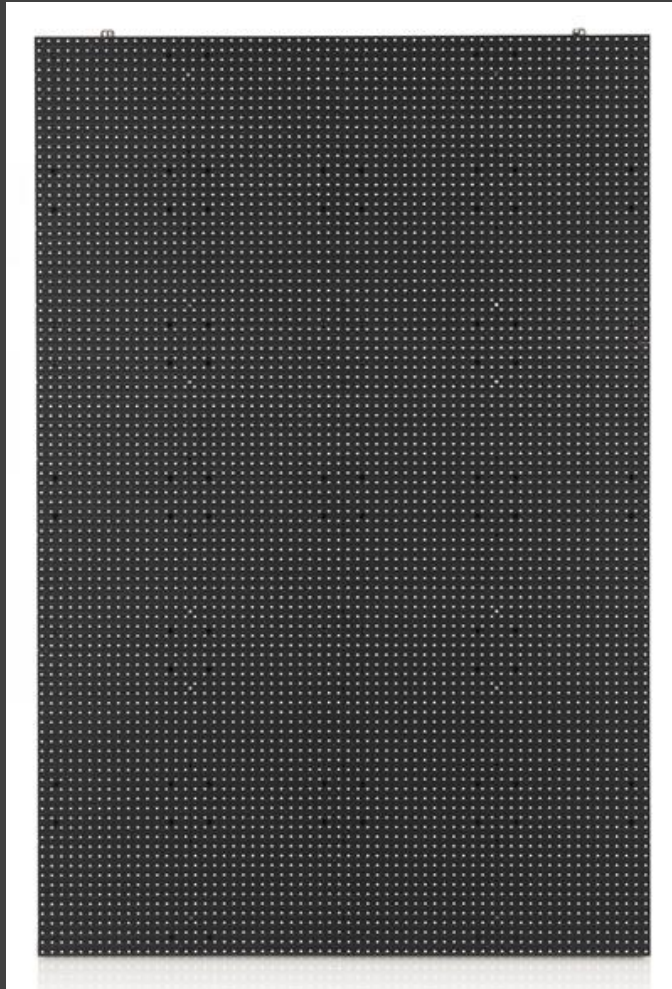
New Develop

Launch Prep

Indoor

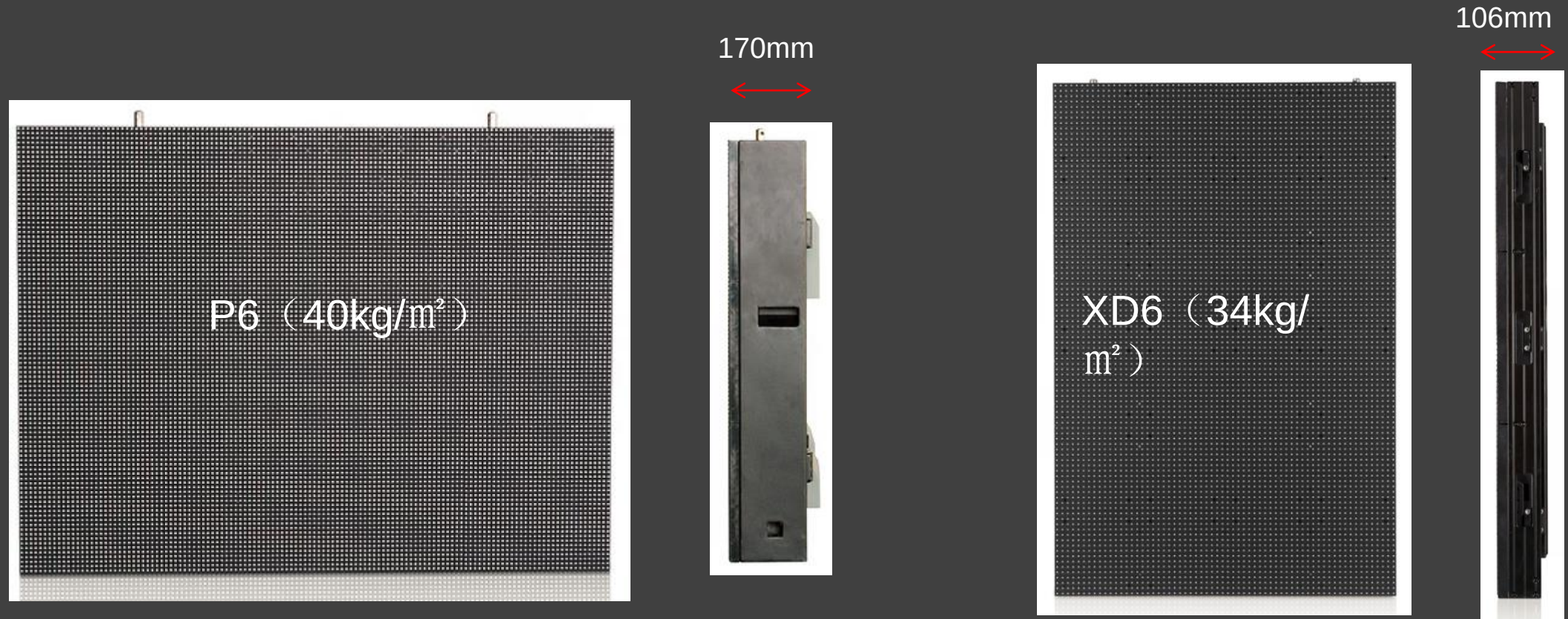
Outdoor

XD6/XD10 panel



- Panel size 640×960x106mm, panel weight 21kg, module size 320×320mm

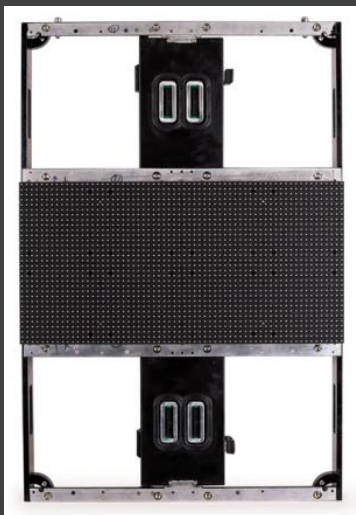
Light & Thin



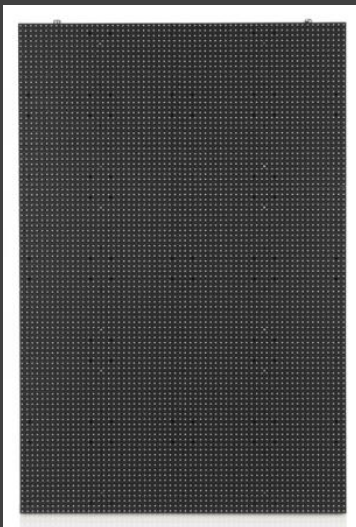
- Panel thickness only 106mm, saving your installation space.
- Panel weight is only 21kg, easy shipping and handling.

Front and rear installation

Front

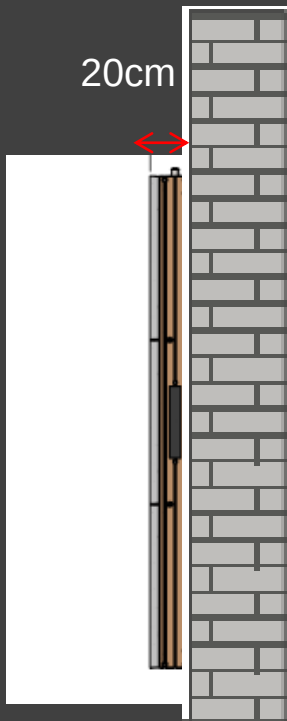


Remove the
corner modules

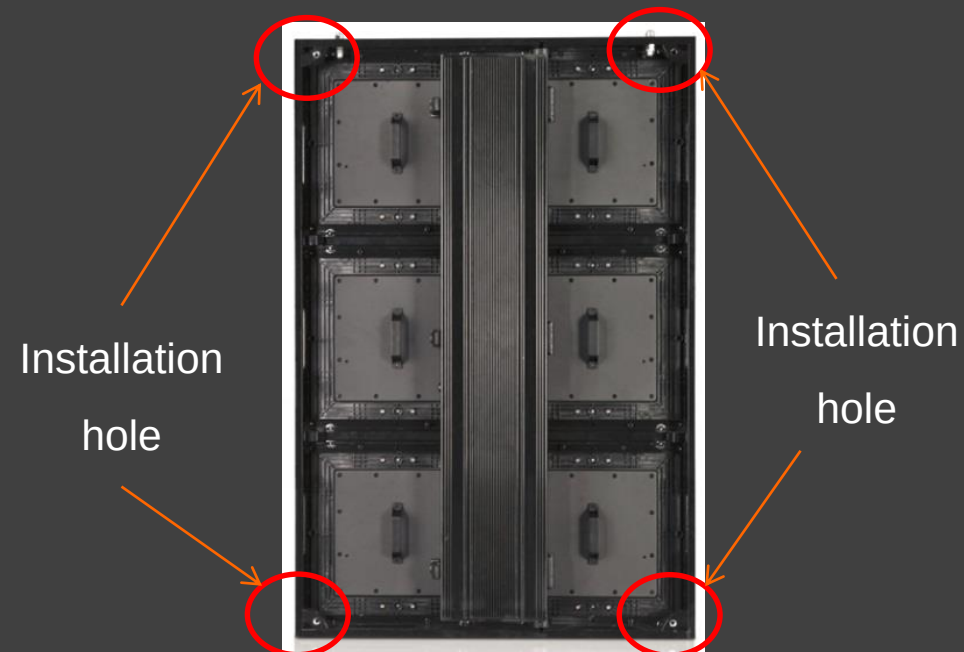


Set up the corner
modules

20cm

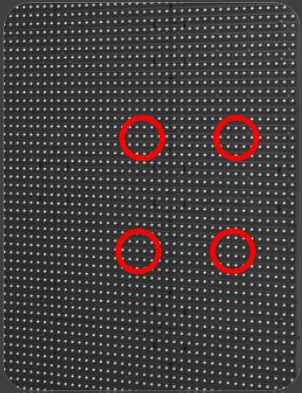


Rear



Front and rear servicing-Module

Front



Insert tool into the maintenance hole



Loosen screws



Disassemble the module

Rear



Loosen screws



Push the module

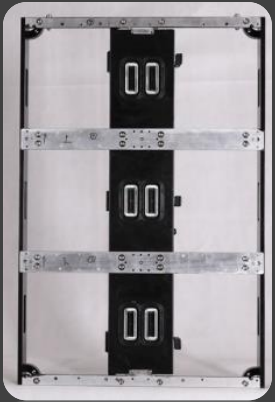


Disassemble the module

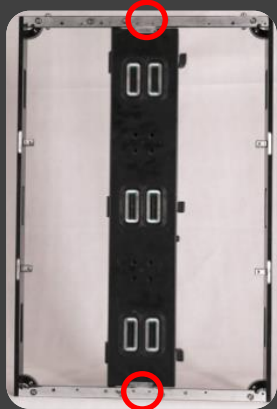
- Front servicing: remove the fixed screws with a hexagon wrench, each module with 4 screws, fast to replace a module.
- Rear servicing: remove 4 screws, easy and simple.

Front and rear servicing-Power box

Front



Remove the
module



Remove the power
box fixed screw



Rotated and
servicing

Rear



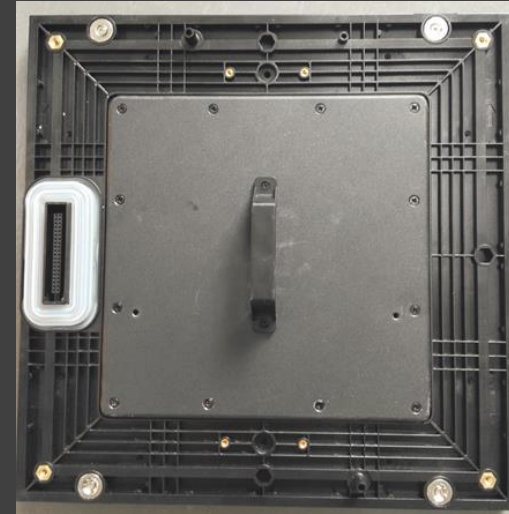
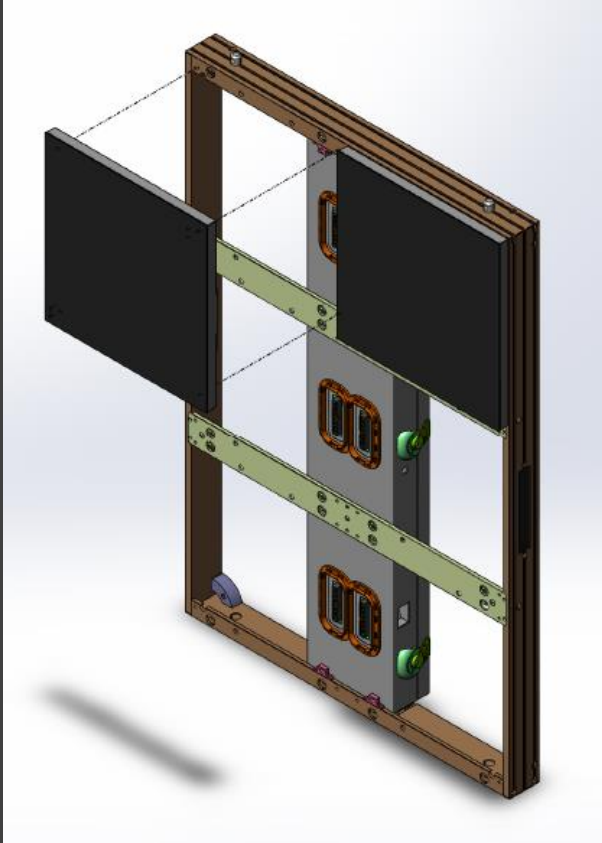
Open the lock



Servicing

- Power box(power supply , receiving card, hub board) can be serviced from both front and rear

Waterproof module



- Only 4 screws fixed design, easy installation and disassembly.
- Fully enclosed structure, to avoid failure caused by the oxidation of electronic components.
- Fan-less design, noise free.

Key Points



Thin and
lightweight

Intelligent
panel

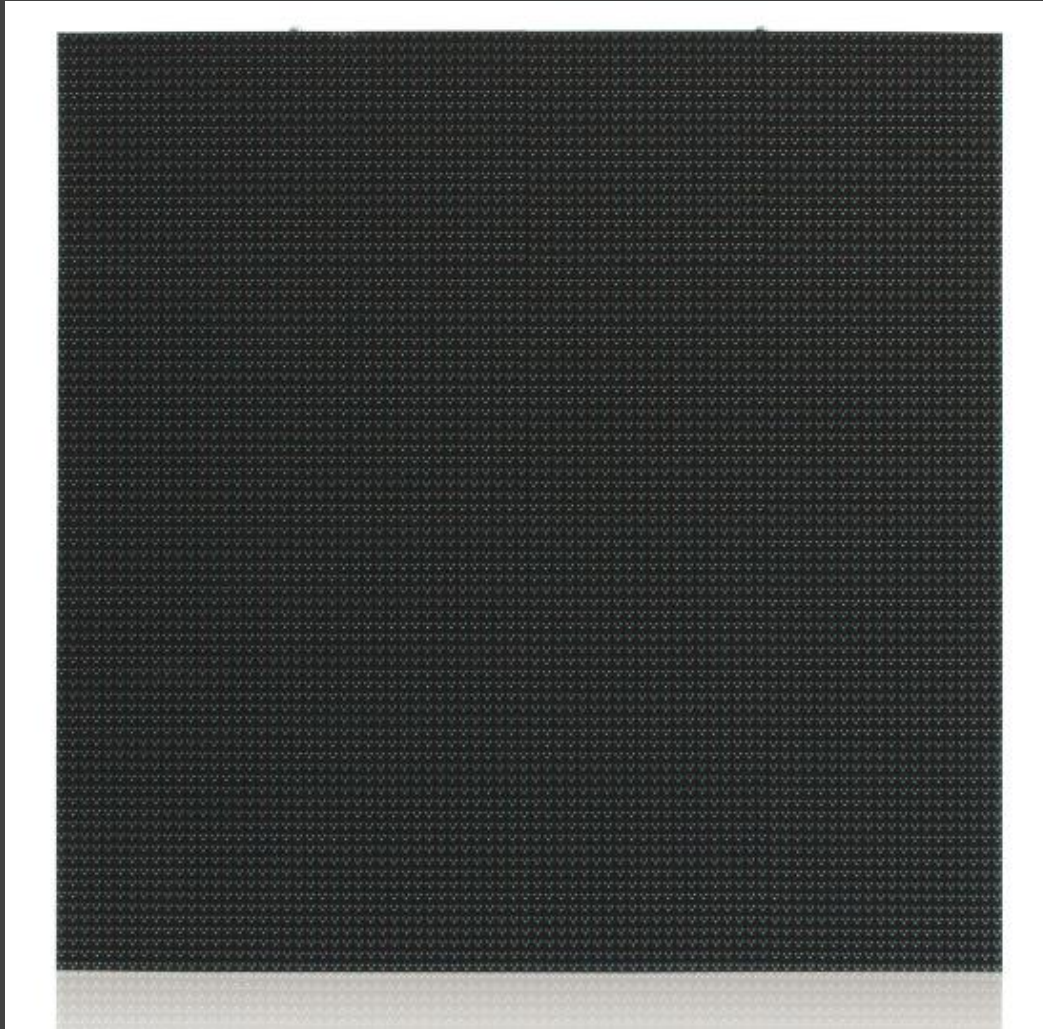
Front
installation
and
servicing



Parameters	XD6	XD10	Unit
Technical			
Pixel Pitch	6.66	10	mm
Pixel Configuration	SMD2727	SMD2727	—
Brightness	≥6000	≥6000	nit
Refresh Rate	≥1920	≥3840	Hz
Gray Scale per Color	65536	65536	level
AC Input Power(Max/Ave)	630/210	660/220	w/sq.m
Viewing Angle(Hor/Verl)	140/120	140/120	deg
Panel			
Panel Size	640x960x106	640x960x106	mm
Pixel Matrix	96x144	64x96	pixels
Weight	21	21	kg
Material	Aluminum		—
IP Rating (F/R)	IP65/IP54		—
Operating Temperature	- 20~+50		°C

X10/X16/X20

Abgen
LED

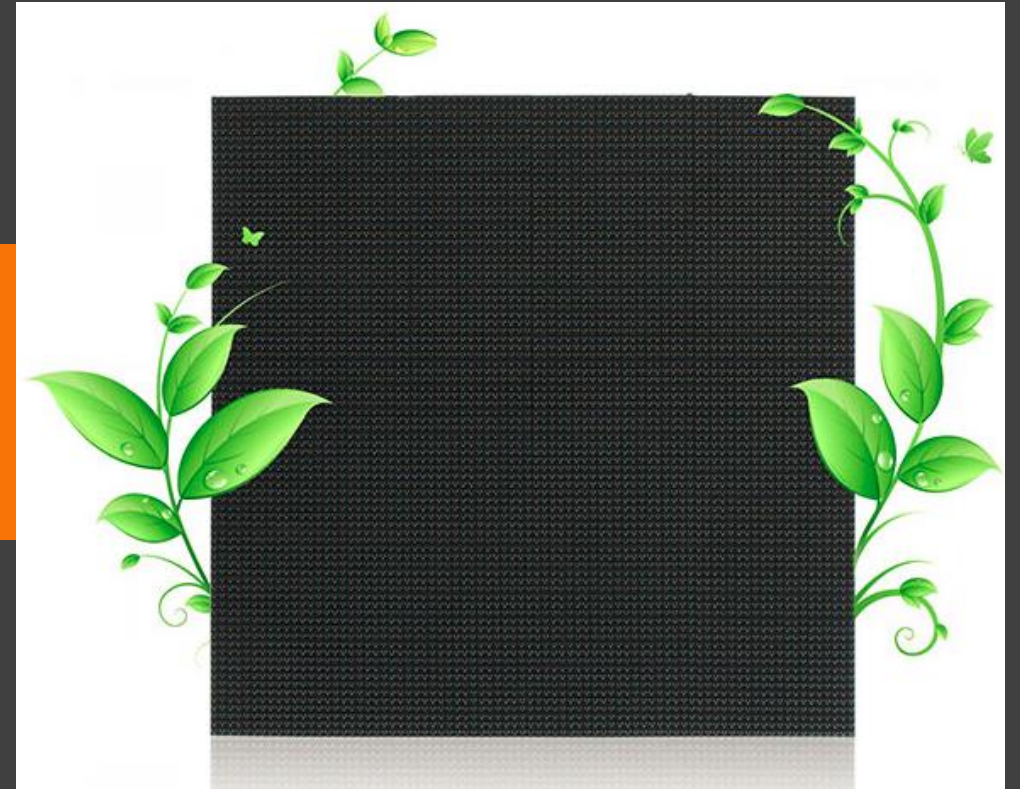


- Panel size 1280×1280mm, panel weight 62kg@X10, 59kg@X16/X20, module size 320×320mm.

Parameters	XD10N	X16	X20	PSC16T	Unit
Technical parameters					
Pixel pitch	10.66	16	20	16	mm
Pixel configuration	1R1G1B	1R1G1B	1R1G1B	3IN1 SMD	—
Brightness	≥8000	≥10000	≥8000	≥6500	nit
Refresh rate	≥1920	≥1920	≥1920	≥3840	Hz
Gray scale per color	65536	65536	65536	65536	level
Power consumption (max/avg.)	375/125	400/133	330/110	500/166	W/sq.m
View angle (H/V)	120/60	120/60	120/60	140/120	Deg.
Cabinet parameters					
Panel dimensions	1280x1280x150			1280x960x120/180	mm
Pixel matrix per panel	120x120	80x80	64×64	80x60	pixels
Weight (kg)	62	59	59	45	kg
Panel material	Steel				—
IP rating (front/rear)	IP65/IP54				—
Operating temperature	-20 ~ +50				°C

Ultra power saving

10000nits brightness only **400W/sq.m** @X16
8000nits brightness only **330W/sq.m** @X10/X20



- Compare with traditional product, less than 50% power consumption, save power cost.
- Excellent display performance.

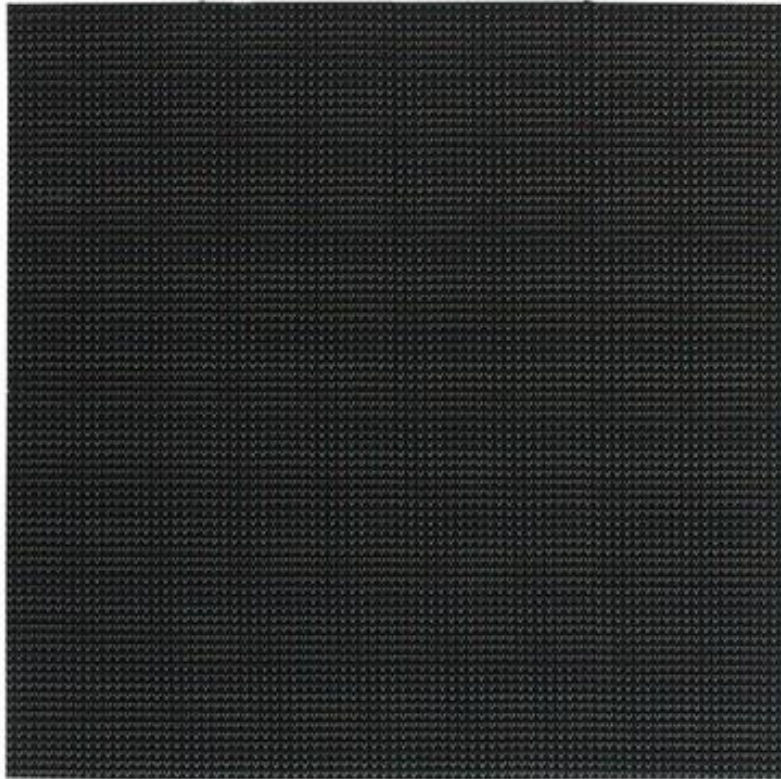
Lighter and thinner

Weight

50kg/m²



40kg/m²



X series



Traditional panel

Thickness

180cm



150cm

- Panel weight is 20% less than traditional panel, thickness is 1/6 less, saving shipping and labor cost.

Monitoring



Receiving card

Sending card

Module

PSU voltage

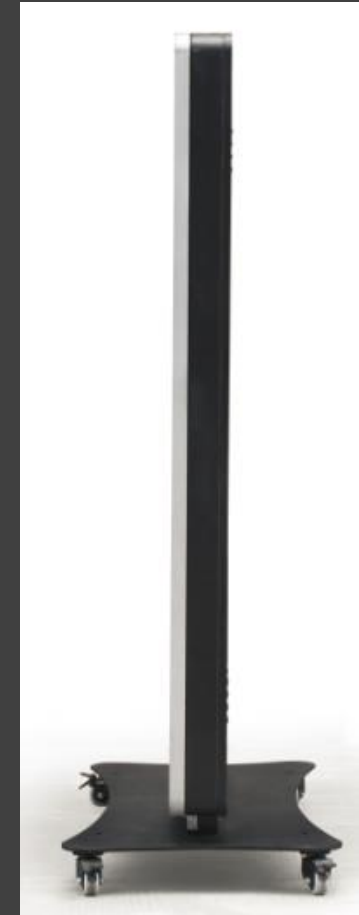
Flat cable

Temperature

Pixel

- Real time monitor work status, email when malfunction
- Monitoring via PC, Tablet, Mobile phone available.

Product Brief - L3



- Panel size: 1150×2210×150mm , display size: 1000×1750mm.
- Total weight: 160 kg , Module size: 250×250mm.

L3 Application

- Inside play controller, plug and play
 - Installation both on ground and post
- **Application Scenario:**
- Pedestrian area
 - Bus shelter
 - Train Station, gas station, etc.
 - Entrance of shopping mall, store, and hotel



Features



- Front tempered glass and display can be open to 90°
- Inside switch
- Lightning protection device

Monitoring



Receiving card

Sending card

Module

PSU voltage

Flat cable

Temperature

Pixel

- Real time monitor work status, email when malfunction
- Monitoring via PC, Tablet, Mobile phone available.

Features



Parameters	L3		Unit
Tec			
Pixel Pitch	3.9	3.9	mm
Pixel Configuration	3 in 1 SMD 2727	3 in 1 SMD 2121 black	—
Brightness	5000	3000	nit
Refresh Rate	1920	1920	Hz
Gray Scale per Color	32768	32768	level
AC Input Power(Max/Ave)	560/185	560/185	w/sq.m
Viewing Angle(Hor/Verl)	140/120	140/75	Deg.
Panel			
Display Size	1000x1750	1000x1750	mm
Panel Size	1150x2210x150	1150x2210x150	mm
Pixel Matrix	256x448	256x448	pixels
Weight	160	160	kg
Material	Aluminum	Aluminum	—
IP Rating (F/R)	IP65/IP54	IP65/IP54	—
Operating Temperature	- 20~+50	- 20~+50	°C

Rental Product Line

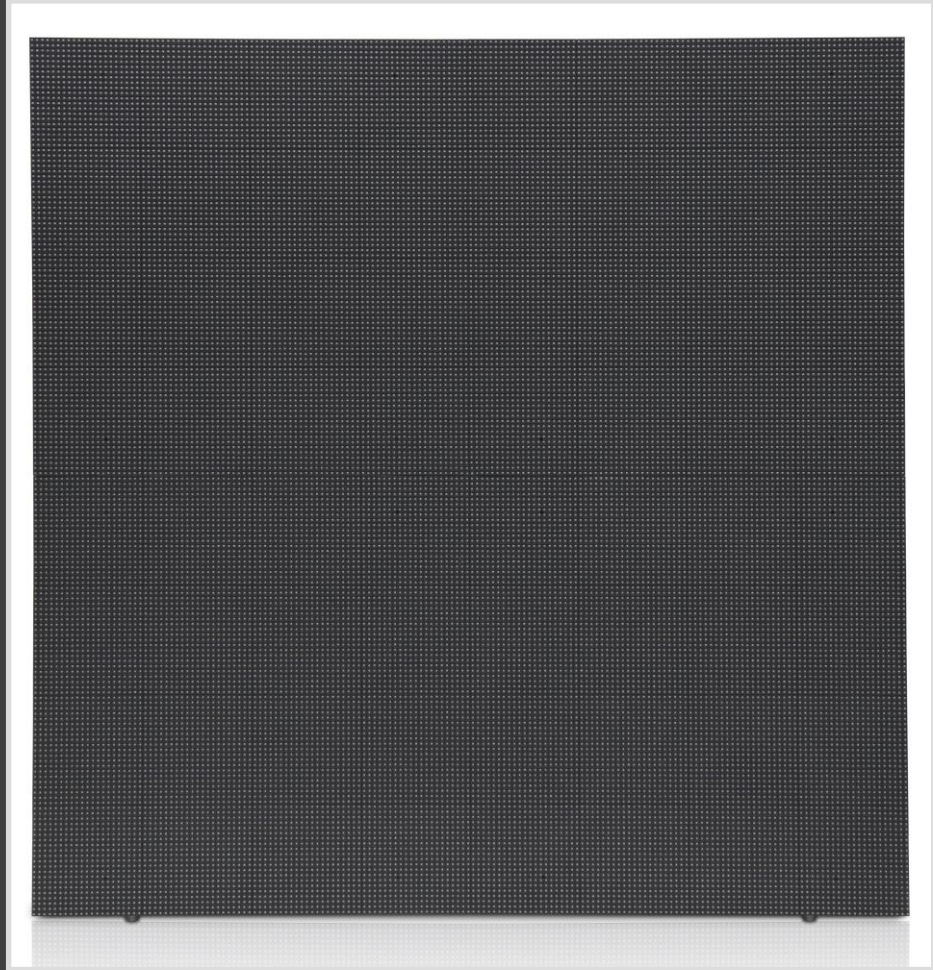


ABSEN PRODUCTS

· Advertising · Rental · Retail · Corporate · Sports



Smart Vision M2.9



Pixel Pitch: 2.9mm Panel Dimension(mm): 500*500*98 Weight: 7.3kg/panel

New locking system, Patent design – M2.9



Quick up-down locking system design, 5 seconds / panel



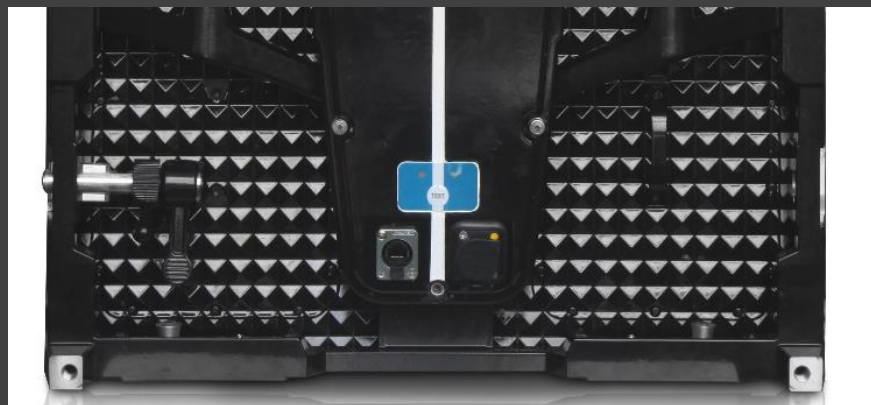
Video M2.9-Series

Product brief - X5



- Pixel Pitch: 5.2mm
- Cabinet Dimension: 500mm×562.5mm (8:9)
- Cabinet Weight: 10kg

Features - X5



- Quick up-down connecting structure
- Supports -10, -5, 0, +5, +10 degrees straight display, curved connection, to meet needs for creative shapes

Product Specifications



Parameters	X5	X5B	Unit
Pixel pitch	5.2	5.2	mm
Brightness	5000	4000	Nit
Cabinet Dimension (W × H × D)	500*562.5*94	500*562.5*94	mm
Cabinet Material	Die-cast Aluminum	Die-cast Aluminum	—
Cabinet Weight	10	10	Kg / Cabinet
Cabinet Weight per square meter	35.5	35.5	Kg / square meter
Pixels	SMD 3in1	SMD 3in1	—
Module size	250*281.25	250*281.25	mm
Cabinet Resolution	96*108	96*108	Pixels
Pixel density	36864	36864	Pixels / square meter
Refresh Rate	≥3000	≥3000	Hertz
Grayscale	32768	32768	Grade
Viewing angle (horizontal / vertical)	140/120	140/120	Degree
Ingress Protection (front / rear)	IP65/IP54	IP65/IP54	—
Power (maximum / average)	720/240		Watts / square meter
Drive mode	1/6	1/6	—



Video X5-Series

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