

3D Kinetic Screen with Die-casting Cabinet Design

Quick Installation And Disassemble Die-casting Aluminum Cabinet For Exhibition, Event And Rental



Cabinet Structure Design

640mm x 480mm, 12 motion units in 1 die-casting aluminum cabinet, more accurate and faster installation.



Noise Reduction Design

Using closed-loop stepping drive system, effectively reduce 70% noise.



Front Maintenance Ultra-thin Design

Front maintenance ultra-thin design suitable for embedded compact installation.



Digital content Editing Software

JR VISUAL own-developed digital content generation software and visual edit-ing interface, make it easy for user to operate.



Precision Machining Technology

Industrial-grade linear guide rails are used to ensure that themodule gap is only 1 mm.



Forward Stroke

The forward stroke can reach 200mm, which makes the 3D visual effect more realistic.



Fast Response

Max, forward speed 300mm/s and Min, forward-back cycle timeless than 0.7s



JR VISUAL Own-developed Control System

Using JR VISUAL own-developed controlling system to realize the synchronization between the video and movement.



Specification

Application		Indoor	Outdoor
Model	160x160mm	250x250mm	495x495mm
Pixel Pitch	1.98mm	1.5625m 1.94mm 2.604mm	10mm
LED Module Dimension(WxH)	160 x 160mm	248.5 x 248.5 mm	495 × 245 mm
Gap between Units	1 (0.5 ~ 1.5) mm	1.5 (1.0~2.0) mm	5(3.5~6.5) mm
Motion Unit Dimension(WxH)	160 x 160mm (0.0256m²)	248.5 x 248.5mm (0.0618m²)	495 × 495 (0.25m²)
Resolution of Unit	80×80	160 x 160 128 x 128 96 x 96	48×48
Cabinet Dimension(Motion Units Qty)	640 x 480mm (4×3)	500 x 500mm (2x2)	1000 × 1000mm (2×2)
Cabinet Thickness (Standby mode)	320mm	320mm	1400mm
Max. Forward Stroke	200mm	200mm	600mm
Max. Forward Speed	300mm/s	500mm/s	800mm/s
Min. Forward-back Cycle Time	< 0.7s	0.5s	<1.5s
Motion Qty per Sqm	39	16	4
Weight per Sqm	80Kg/m²	52Kg/m²	180Kg/m ²
Max. Power Capacity	900W/m²	720W/m²	1,500W/m²
Power Supply Requirement -	≤3KW:220V Single phase	≤3KW:220V Single phase	≤3KW:220V Single phase
	≥3KW:380V Three phases / Five wires	≥3KW:380V Three phases/Five wires	≥3KW:380V Three phases/Five wires
Screen Brightness	≥700 nits	≥600 nits	≥7,000 nits
Ambient Temperature	0~40 C	0~40 C	-10∼60 C
IP Rating	IP40	IP40	IP65
Environmental Attentions	Indoor use, no corrosive gases,	Indoor use, no corrosive gases,	Outdoor use
	no flammable gases, no oil mist and dust	no flammable gases, no oil mist and dust	
Heat Dissipation	Open self-cooling (with fan cooling)	Open self-cooling (with fan cooling)	Semi-closed Self-cooling (with fan cooling)

Indoor - 640x480mm Model



Motion Unit Size

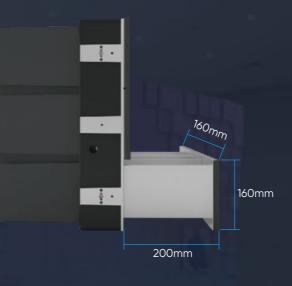
160 x 160mm (0.0256m²)

Cabinet Size(Motion Units Qty)

640 x 480mm (4×3)

Cabinet Weight

24kg



Ultra-thin Gap

- **)** Gap between Units of Indoor 250-I is ≤1.5mm.
- The precise sliding structure and the extremely fine gap between the screens present more complete and clear content.



Forward Stroke

- The forward stroke can reach 200mm.
- More realistic 3D visual effect.

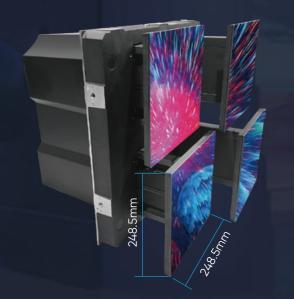


O JRVISUAL

- More than 90% of mechanical parts are precision processed.
- Industrial linear guides ensure accurate operation.



Indoor - 500x500mm Model



Motion Unit Size

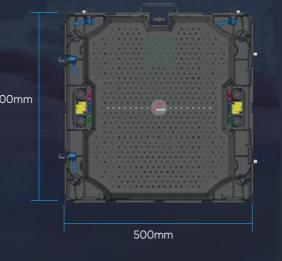
248.5 x 248.5 (0.0618m²)

Cabinet Size(Motion Units Qty)

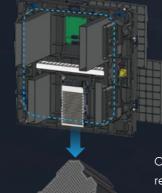
500 x 500mm (2×2)

Cabinet Weight

13kg

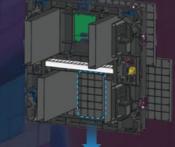


Maintenance Steps



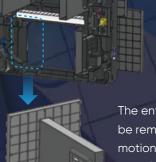
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Open the back cover to repair the entire circuit, receiving card, and power supply.



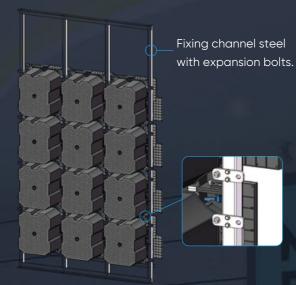
Removed the power supply mounting plate, revealing a large hole.

200mm



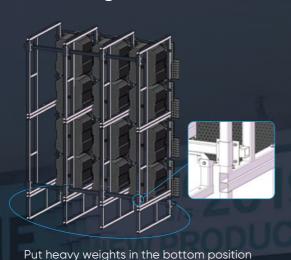
The entire motion unit can be removed, and then the motion mechanism and modules can be repaired.

Fixed To Ceiling Structure



Stacking Structure

to keep the structure steady.



Exceptionally Slim Profile

The 32cm thickness of the unit effectively minimizes floor space consumption



Multiple noise reduction design



Outdoor - 1,000x1,000mm Model





Motion Unit Size

495 x 495mm (0.025m²)

Cabinet Size(Motion Units Qty)

1000 x 1000mm (2×2)

Weight Per Sqm

180k



Convenient Maintenance

- > The front maintenance which is convenient and fast.
- > The Outdoor adopts internal maintenance, which is safe and completely waterproof.



Extremely Fine Gap

The 3D Kinectic LED Screen feature an exceptionally narrow gap between modules, creating a virtually seamless viewing experience. The result is a unified, continuous image, free from distracting lines or separations.





Independent Development

The digital content editing software especially suitable for the wave screen simplifies the production process of movies and actions.



Interactive Experience

Through telescopic motion, the unit presents content in three dimensions and interacts with the audience by sensing their movements.

It supports event-triggered, real-time, and other interactive methods, creating engaging and participatory experiences for viewers.





Precision Machining

More than 90% are precision processed



High Precision Linear Guide

Industrial linear guide ensure accurate Operation



Stable Power Supply

Well-known branded switching power supply with PFC function



High-Quality Motor

Use high-quality stepping motors to ensure control accuracy



Project Case





