MATRIX 500

Innovative indoor & outdoor LED Panel

DOIT VISION | 2020 **D**reaming I **O**penness I **I**magination I **T**rust

Professional LED screen manufacturer www.doitvision.com

THINK
OUTSIDE
THE
BOX

The INSPIRATION

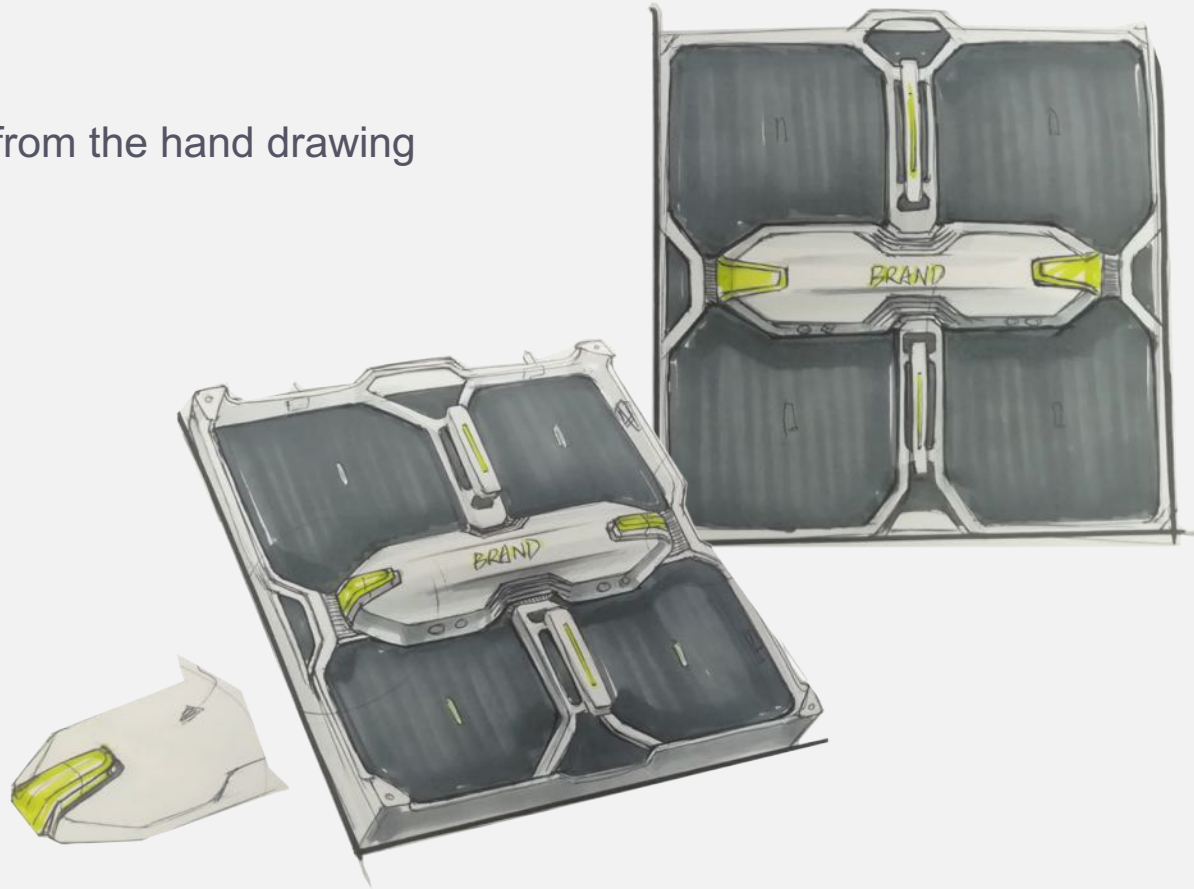Texture   Nimble   Professional   Flat   Handy

Started from the hand drawing

The MATRIX 500

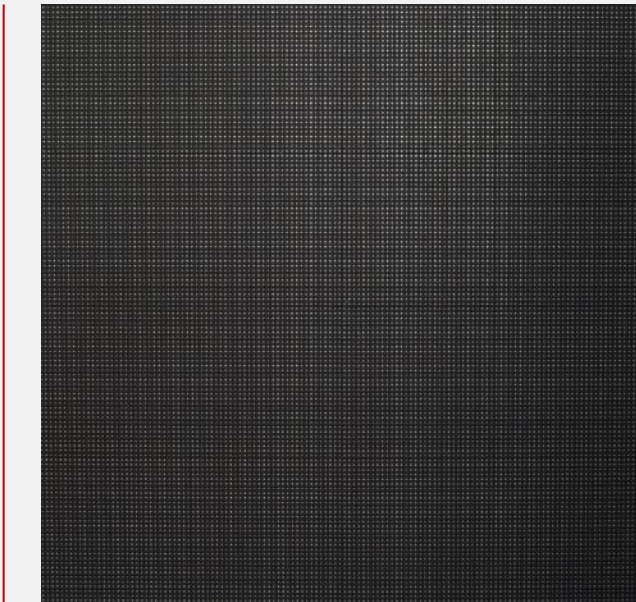SOLID   EASY   SIMPLE   PRECISE   FAST

The MATRIX 500

INDOOR:

2.6MM 2.9MM 3.9MM

OUTDOOR

2.9MM 3.9MM 4.8MM

500mm

Weight: 7.1kg indoor / 7.5kg outdoor

80mm

500mm

The MATRIX 500
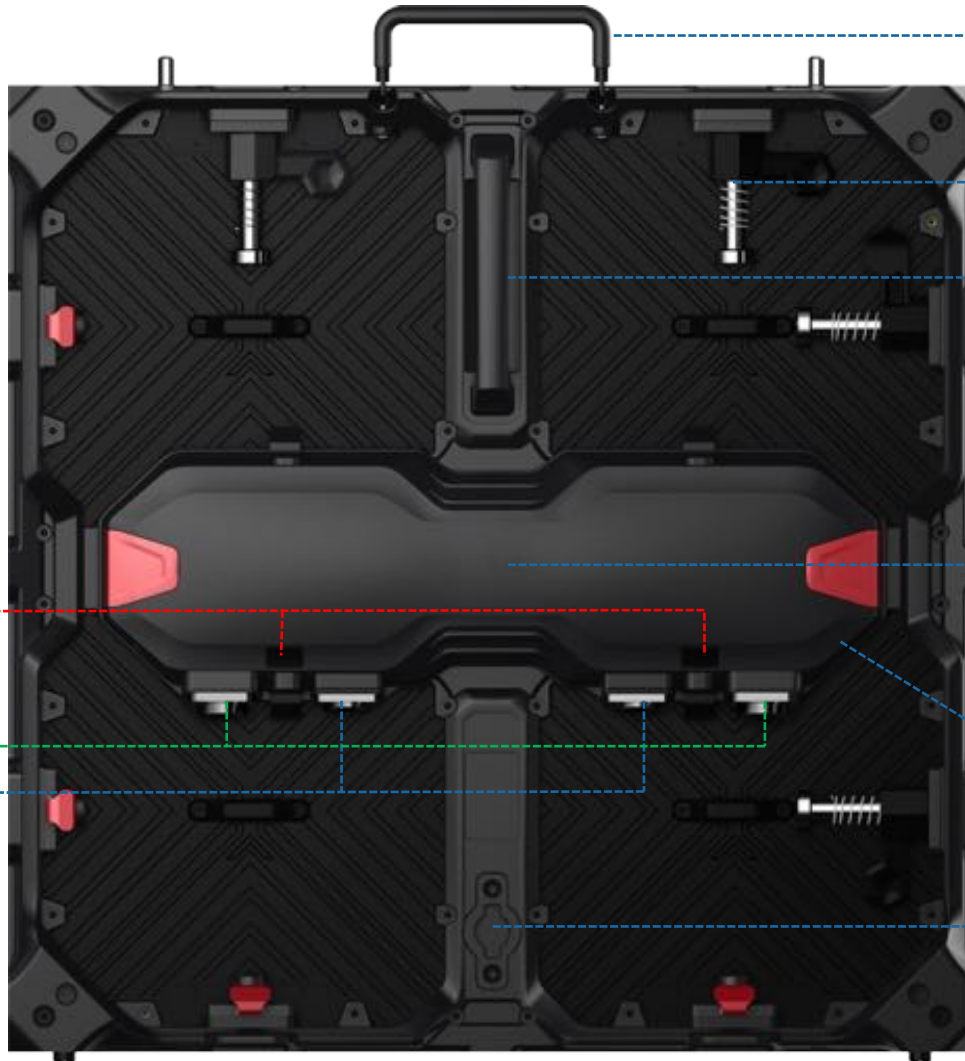
Lifting Handle
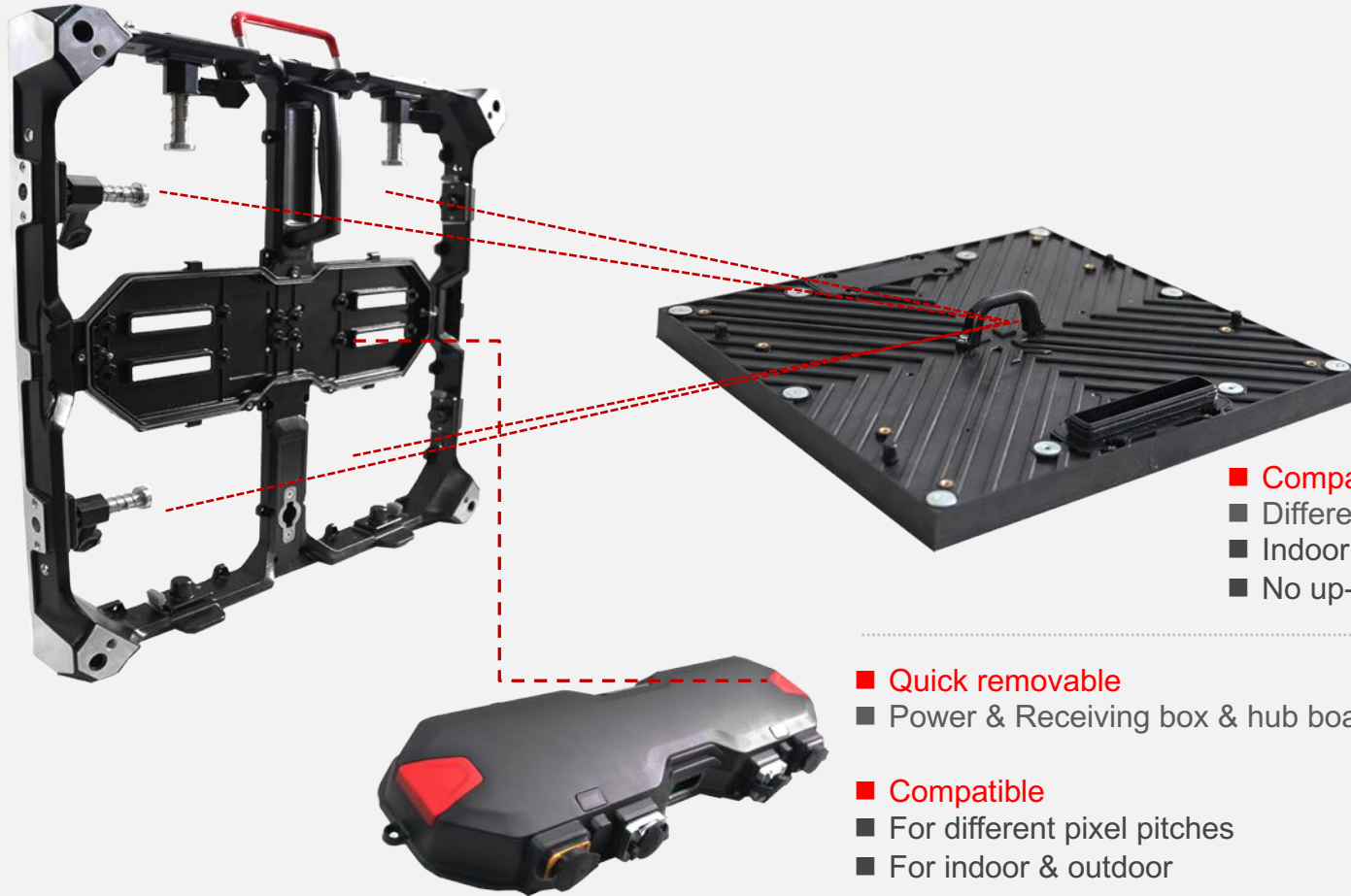
Fast locks

Panel Handle

Removable
Power & Receiving box

Power & signal indicator

Hidden testing button
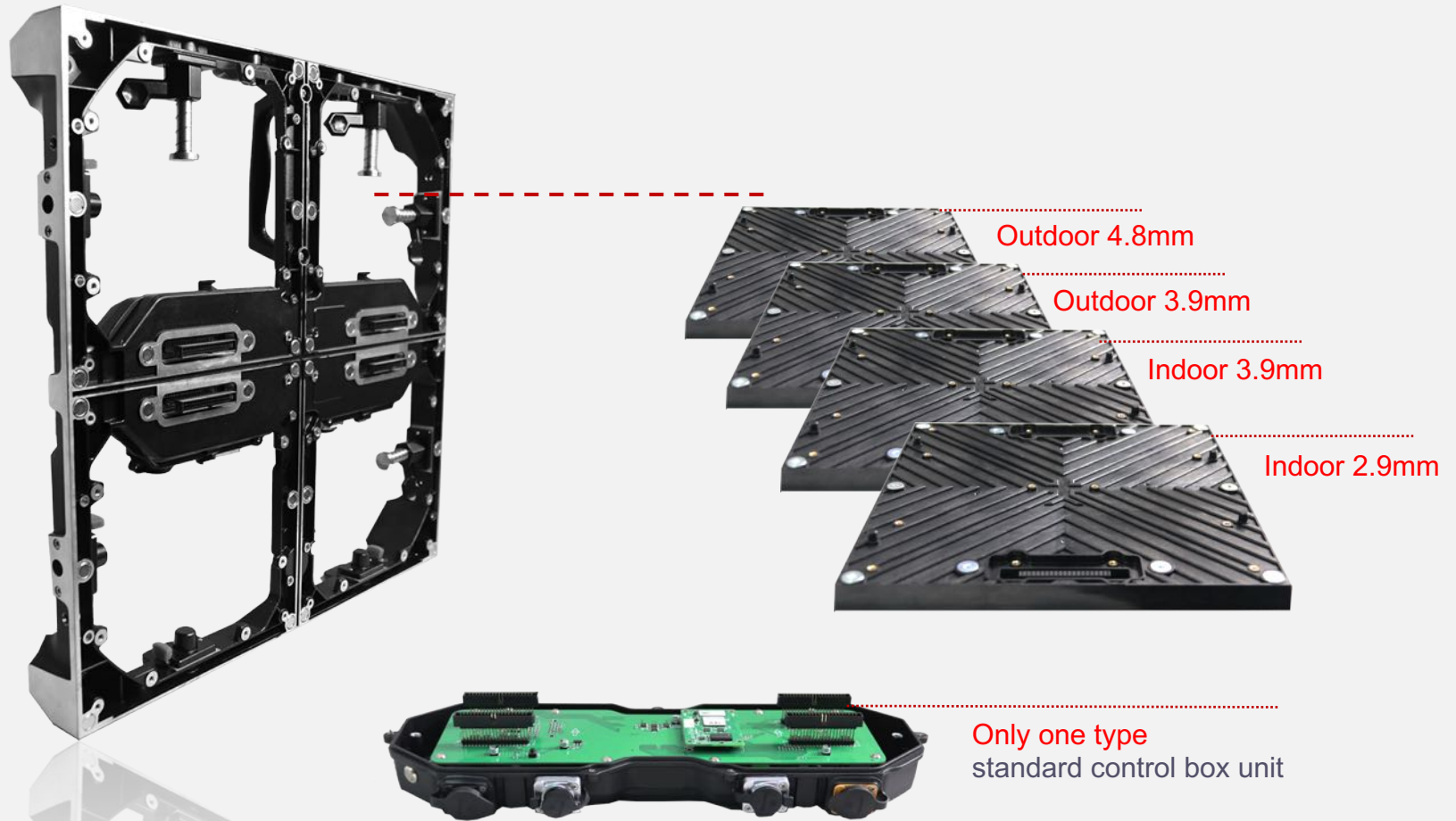
Power connector
Signal connector

Stack installation joggle

Compatible LED module
- Different pixel pitches
- Indoor & outdoor
- No up-down direction

Quick removable
- Power & Receiving box & hub board & connectors

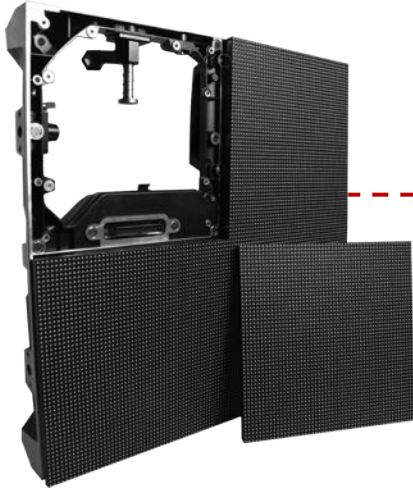**Compatible**
- For different pixel pitches
- For indoor & outdoor

Outdoor 4.8mm

Outdoor 3.9mm

Indoor 3.9mm

Indoor 2.9mm

Only one type
standard control box unit

■ Powerful Electronic Vacuum suction tool (front maintenance)

The MATRIX 500

■ Magnetic front service or Back service with screw

☐ Strong handle for LED module
☐ 10 magnetics for each LED module

☐ Strong installation pins, metal material optional

The **MATRIX 500**

- ✔ Black LED, high contrast ratio
- ✔ High refresh rate, no ghosting
- ✔ Calibration memory in LED module
- ✔ No AB module(no up and down direction installation)
- ✔ Superb visual quality, zero-gap alignment
- ✔ Superb surface flatness
- ✔ Perfect alignment no gaps
- ✔ Magnetic front service (Screw optional)
- ✔ Strong magnetics
- ✔ Strengthen housing structure design, no deformation
- ✔ Optimized heat sinking design
- ✔ Anti fire / corrosion / ultra-violet material

- **Mask with screws**
- **Convex surface**
- **No deformation**
- **Strengthen edges**

- High uniformity
- High contrast ratio
- Superb flatness
- Superb alignment

- Big viewing angle
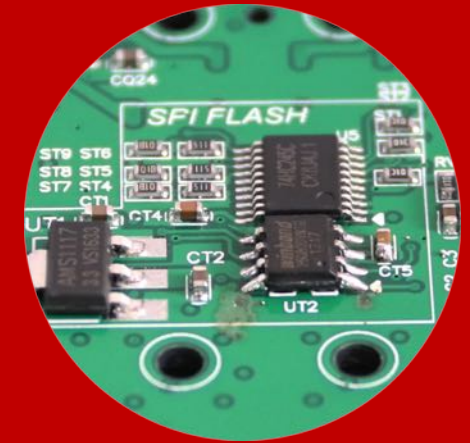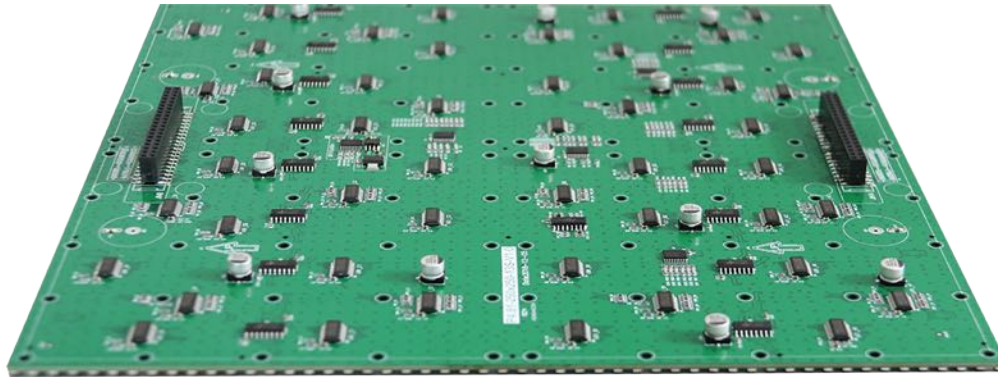- Anti-collision protection for LEDs

The MATRIX 500

Human engineering design
Rubber protection
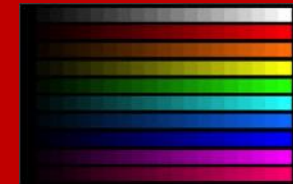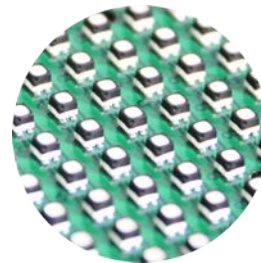User friendly
Bigger size

The MATRIX 500

Calibration memo in LED module

- ✓ Optimized PCB board design
- ✓ 4 layers PCB
- ✓ Calibration-memo in PCB board
- ✓ Perfect matched with Novastar control system
- ✓ Perfect heat sinking
- ✓ CE / EMC certified optional

CALIBRATION

The MATRIX 500

The control box

- ✅ Power supply with certificated

- ✅ Novastar receiving card

- ✅ Universe hub board for different pixel pitches

- ✅ No cable connection for power supply & hub board

- ✅ Good quality connector pins

- ✅ Optimized heat sinking design

- ✅ Big size indicator, visible under sunshine

- ✅ Direct signal connection to hub(receiving card) optional

- ✅ Quick removable without any tools optional

- ✅ Customized color sign

- ✅ Neutrik connectors optional

- ✅ Hidden testing button avoid false touch
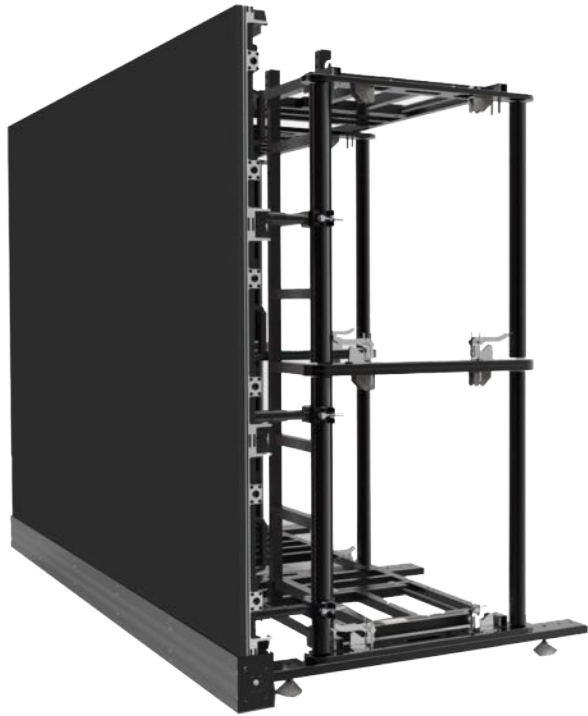
The MATRIX 500

Ground Stack Installation

Hanging Installation

The MATRIX 500

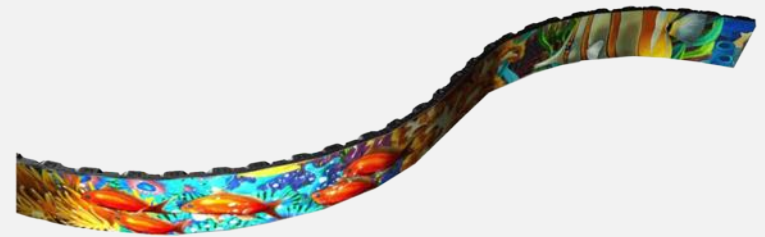Hanging installation | Concave & convex installation

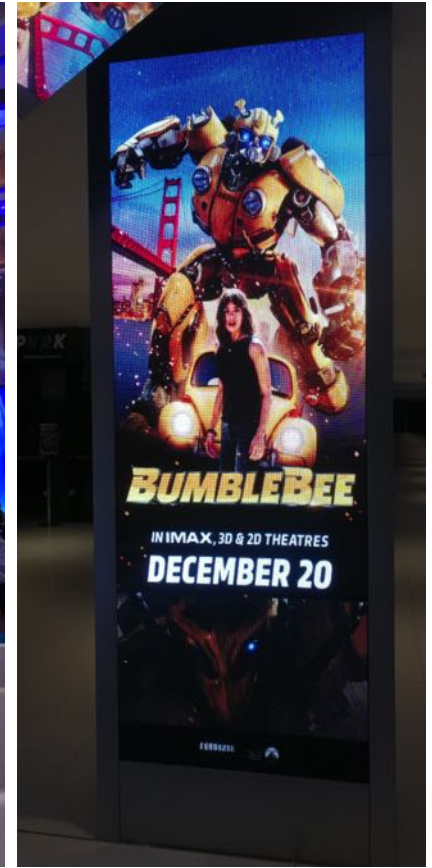Special shape / Panel Dislocation Installation

The MATRIX 500
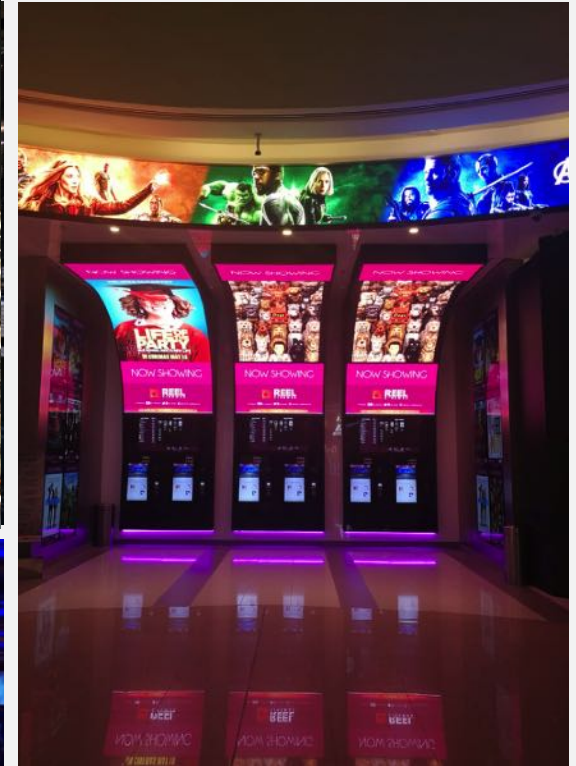

| EVENTS | OUTDOOR SHOW | CONFERENCE | ADVERTISING |

PROJECT GALLERIES

The MATRIX 500

Specification for indoor models

Pixel pitch	2.6mm	2.9mm	3.9mm
LED configuration	SMD1515	SMD2020	SMD2020
Brightness	1000 nits	1000 nits	1200 nits
Viewing angle	160°/ 160° (50% brightness)		
Scan mode	1/24	1/28	1/16
Refresh rate	1920/3840Hz		
Processing	14 bits		
Module size	250mm x 250mm x 17mm (W x H x D)	9.84'' x 9.84'' x 0.67'' (W x H x D)	
Panel size	500mm x 500mm x 78mm (W x H x D)	19.69'' x 19.69'' x 3.07'' (W x H x D)	
Panel weight	7.1kg / 15.65lbs	7.3kg / 16.09 lbs	7.1kg / 15.65lbs
Input voltage	AC100~240V 50/60 HZ		
Power consumption (Avg)	200W/sqm	200W/sqm	200W/sqm
Power consumption (Max)	640W/sqm	640W/sqm	680W/sqm
Working temperature	-20°C~60°C		
IP rating	IP31/IP31		
Life span	100,000 hrs		
Warranty	24 months		

The MATRIX 500

Specification for outdoor models

Pixel pitch	2.9mm	3.9mm	4.8mm
LED configuration	SMD1415(Outdoor)	SMD1921/SMD1820	SMD1921/SMD1820
Brightness	4200 nits	4000 nits	4000nits
Viewing angle	160°/ 160° (50% brightness)		
Scan mode	1/21	1/16	1/13
Refresh rate	1920/3840Hz		
Processing	14 bits		
Module size	250mm x 250mm x 17mm (W x H x D)	9.84'' x 9.84'' x 0.67'' (W x H x D)	
Panel size	500mm x 500mm x 78mm (W x H x D)	19.69'' x 19.69'' x 3.07'' (W x H x D)	
Panel weight	7.8kg / 17.19lbs	7.8kg / 17.19 lbs	7.7kg / 16.97lbs
Input voltage	AC100~240V 50/60 HZ		
Power consumption (Avg)	200W/sqm	200W/sqm	200W/sqm
Power consumption (Max)	640W/sqm	640W/sqm	680W/sqm
Working temperature	-20°C~60°C		
IP rating	IP65/IP65		
Life span	100,000 hrs		
Warranty	24 months		

DOIT VISION 2020
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