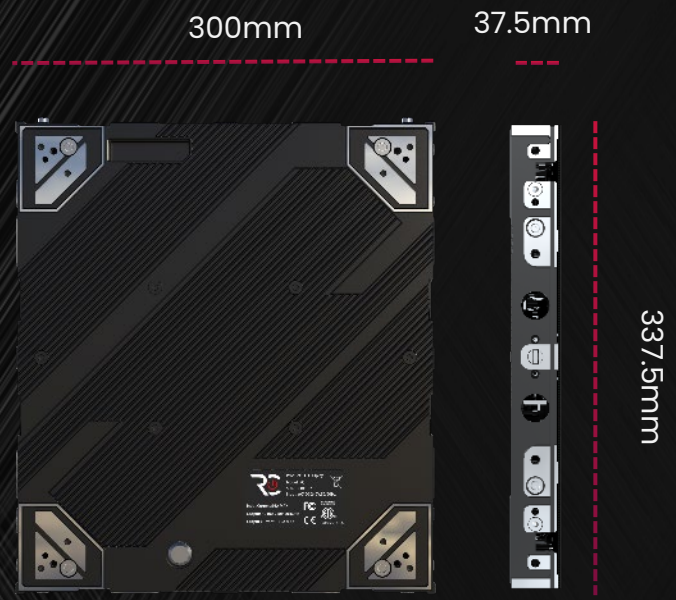
RQ SERIES

Compatible with unique frame system
Rental LED 300x337.5mm
8:9 Ratio 2 cabinet 16:9

COB Flip Chip Ultra wide Viewing Angle
SEG Slot Tray function

Extend creativity to infinity



RQ SERIES

- COB Flip Chip
- Front Maintenance
- Diecasting aluminum
- SEG Slot
- Tray Function
- Frame System

EXHIBITION	SPECIFICATION			
PITCH	P0.93	P1.25	P1.56	P1.87
SERIES NO	RQ093i	RQ125i	RQ156i	RQ187i
SMD MODE (cd/m²)	>400	>500	>500-600	>500-650
COB MODE (cd/m²)	**>800**	**>1000**	**>1000**	**-**
MicroX MODE (cd/m²)	**-**	**>2500-3000**	**>3500**	**>3500**
DISTANCE	>0.9m	>1.25m	>1.56m	>1.87m
PIXEL DENSITY (dots/m²)	268,324	268,324	409536	284400
REFRESH RATE	3840Hz			
VIEWING ANGLE	160°(H) / 160°(V)			
CONTRAST	6000:1			
MODULE SIZE	150 x 168.75 x 37.5mm			
CABINET SIZE	300 x 337.5 X 37.5 mm (11.8'' x 13.3'')			
CABINET RES (px)	320 x 360	240 x 270 px	192 x 216 px	160 x 180 px
SYSTEM	Stacking / Hanging / Stitching			
DRIVE MODE (Scan)	1/40	1/40, 1/60	1/48	1/30
ENVIRONMENT	IP20			
MAX POWER (W/m²)	450W/m²			
VOLTAGE	AC 100-240V			
WEIGHT	2.75kg / Panel			
CERTIFICATION	CE, EMC, TUV-EMC, FCC, ETL, UL, PSE, CCC, RoHS			

REGIENCE

REAR VIEW

Small one is Front maintenance for positioning The Die-cast connector plate
Big one is Screw Hole connect with The connector plate, and the frame Slidable plate.

Four corner are the same
All screw holes are M5

Frame rear connect hole

Wall mounting hole

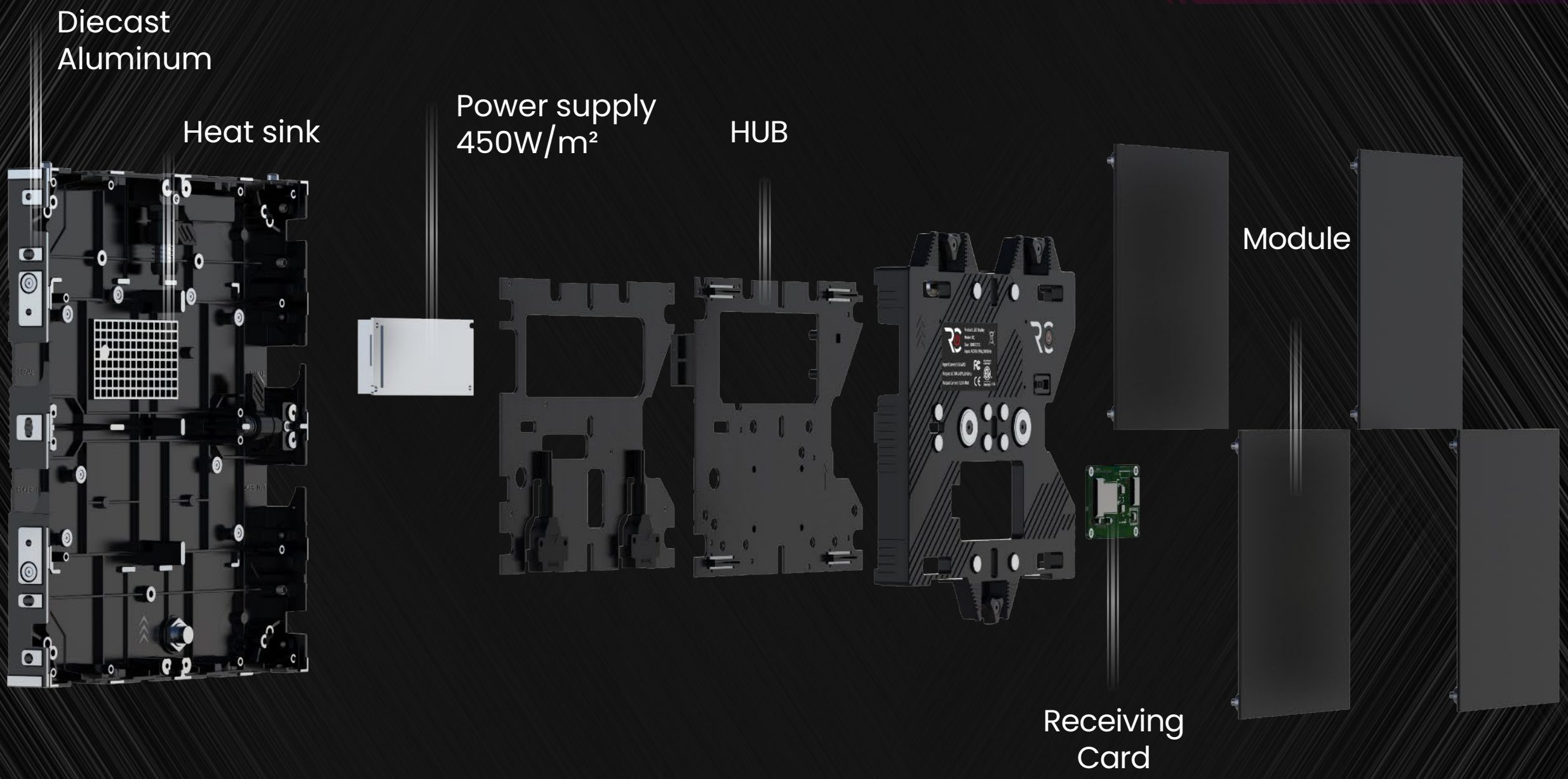
VESA mounting

90 degree connect hole

Test Button

Magnet

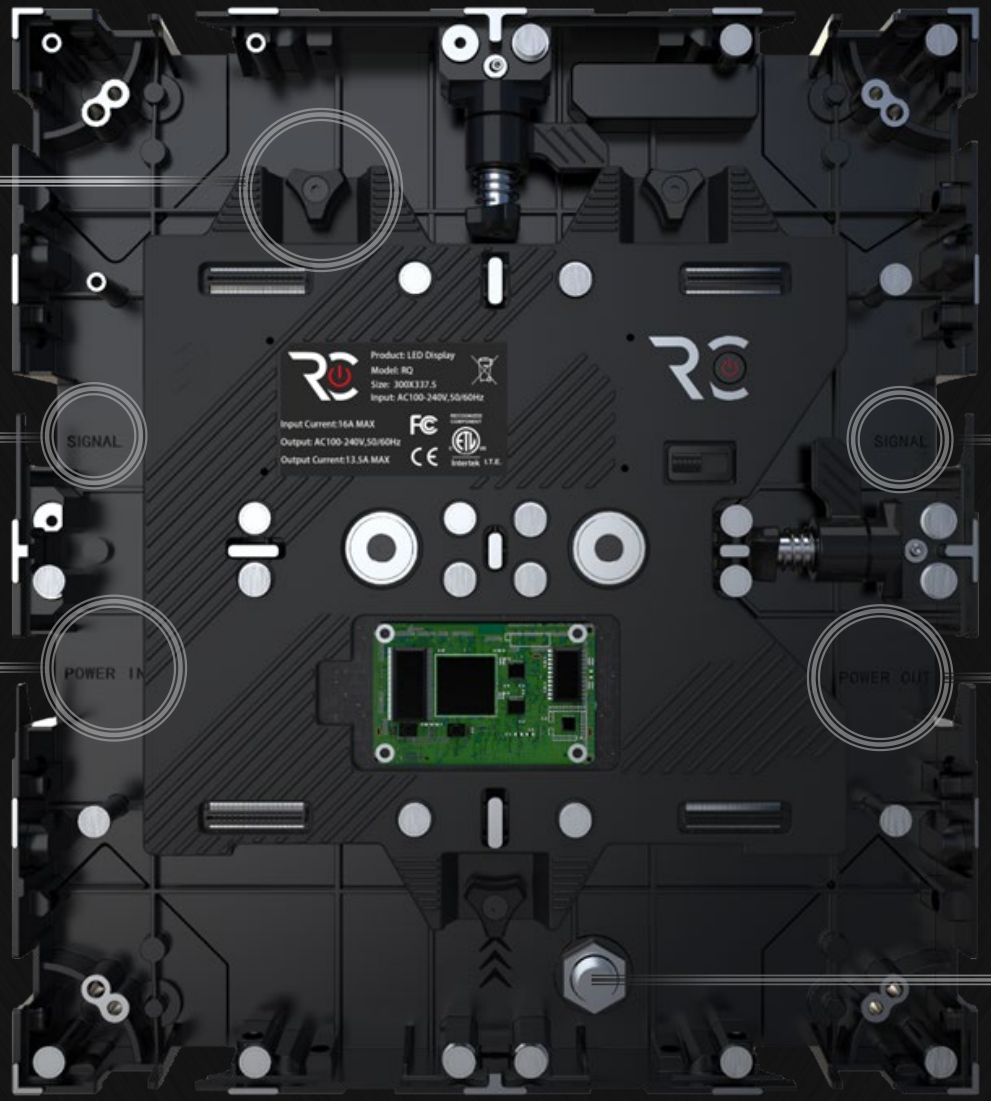
EXPLOSION VIEW



Remove modules from front

Inner view / Remove

INNER VIEW



Loose this to dismount brain box from cabinet

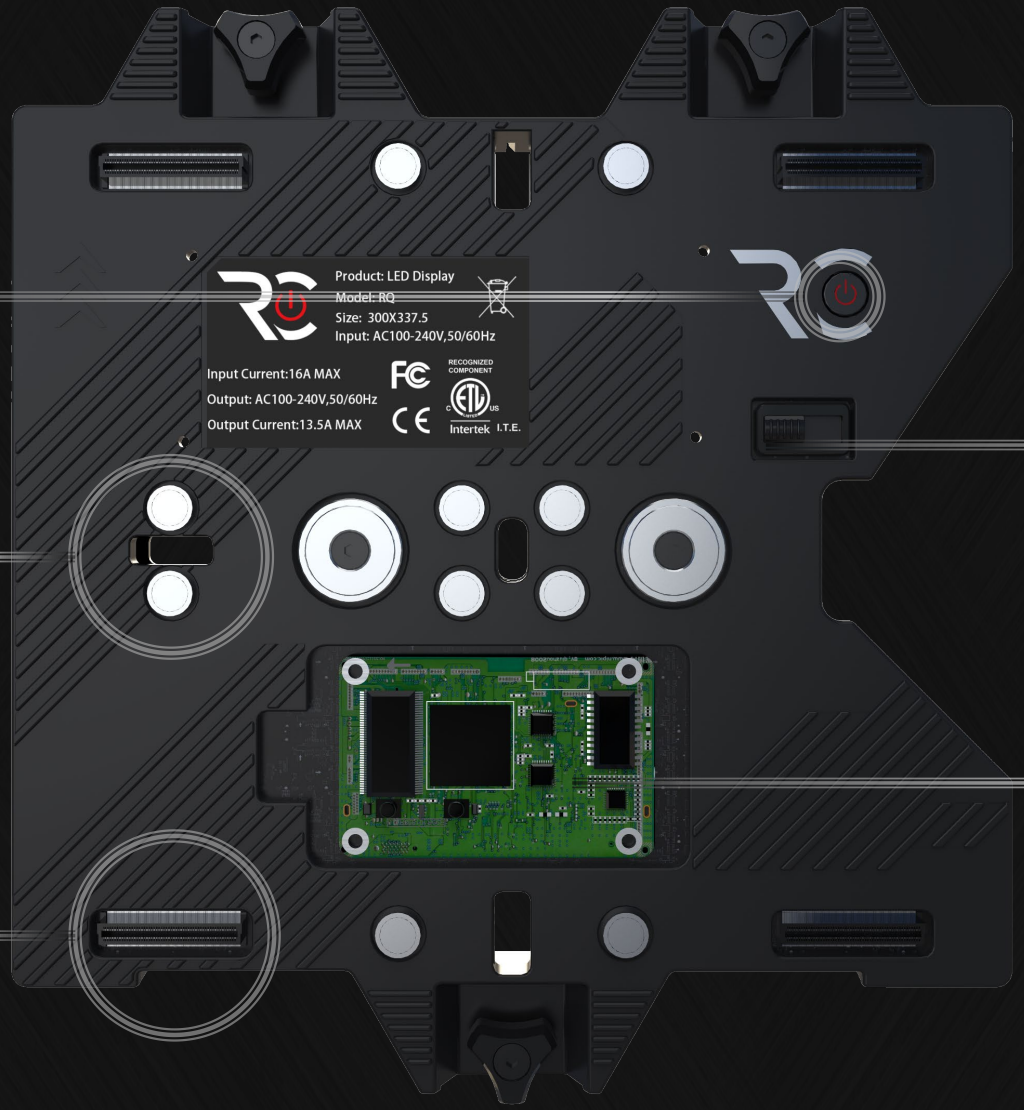
Signal Cable in/out

Power Cable in

Signal Cable in/out

Power Cable out

Test Button



Test Button

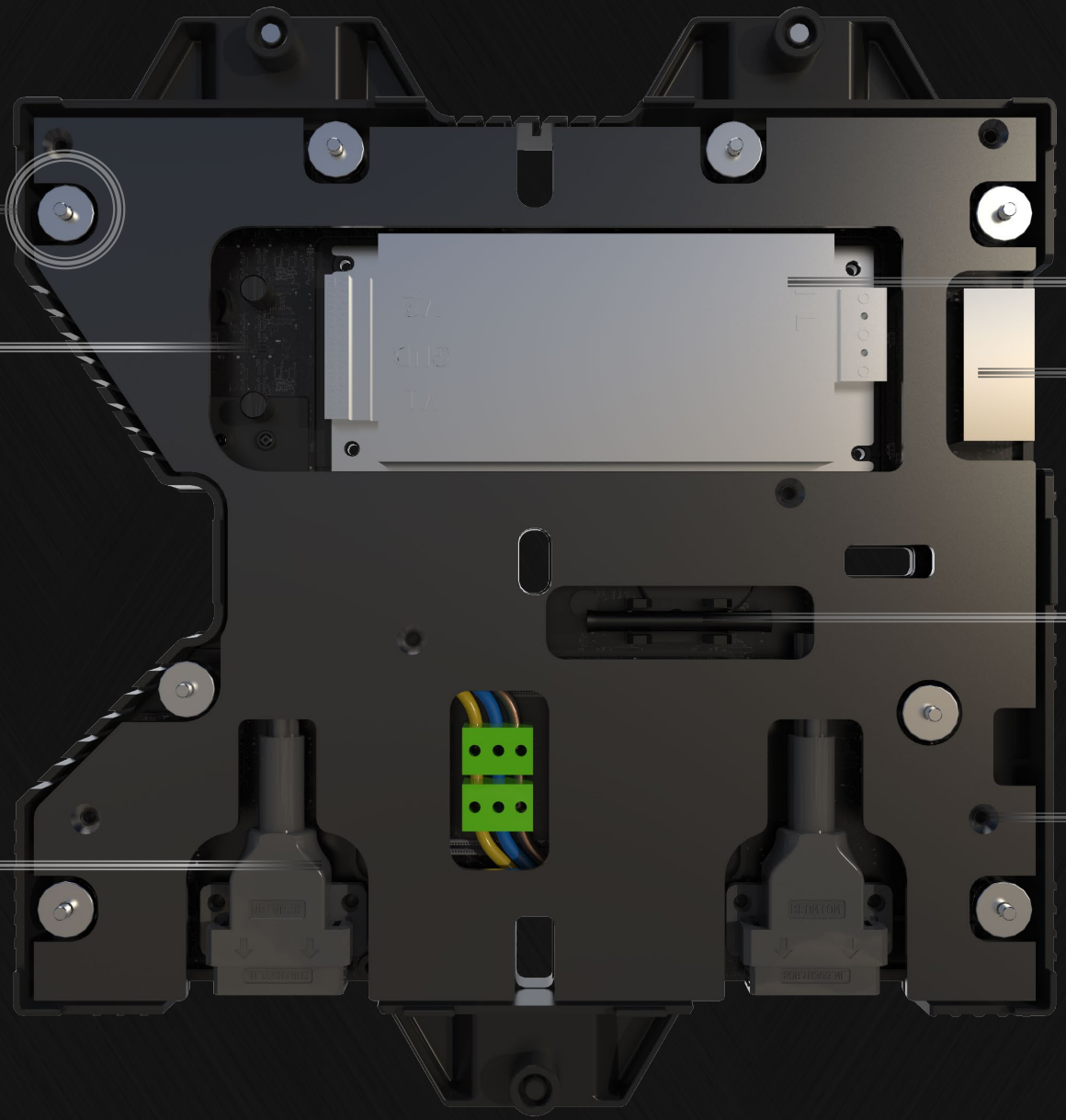
Magnet used to positioning module

Terminal connect module with HUB

Fault indicator
Can be switch between Black(safe) and red(alert)

Receiving Card

BRAIN BOX REAR VIEW



Magnet used to
Positioning cabinet

HUB inside this brain box

Aviation connector
(Power In/Out)

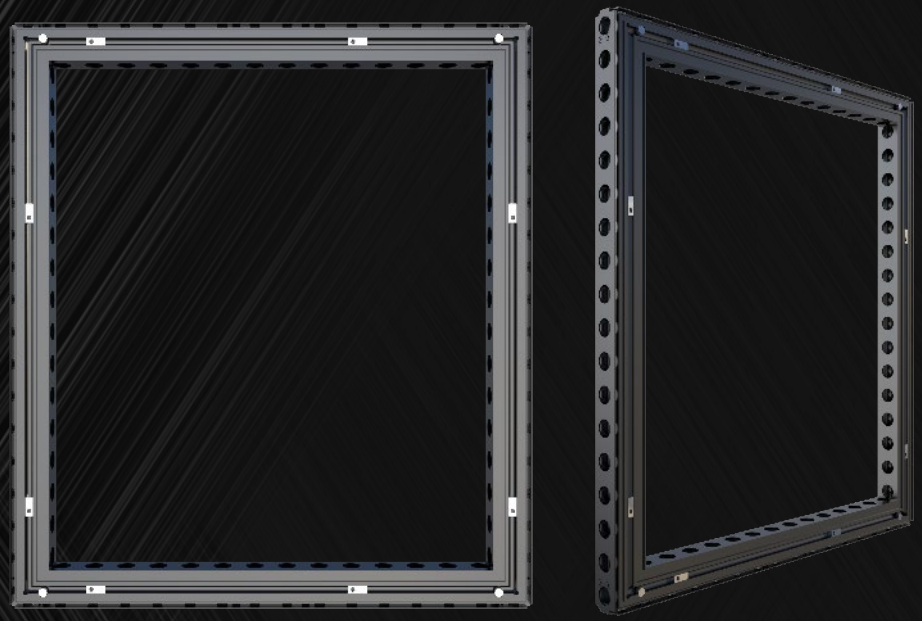
Power supply 450W/m²

Network cable port
(Signal In/Out)

Fuses

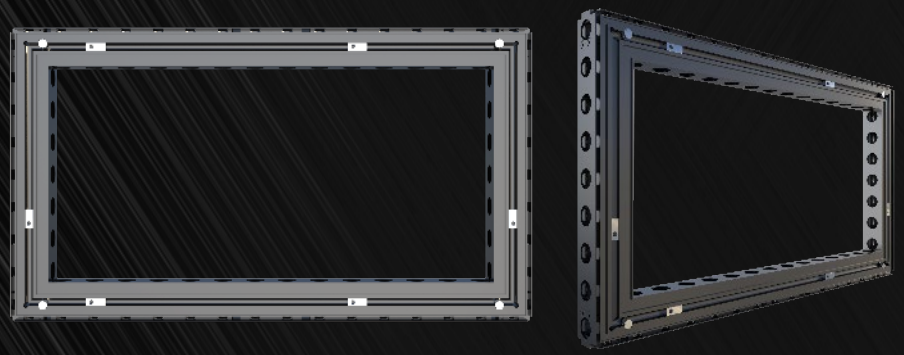
M5 Screw
loose them to Dismount this plate
from rear To separate the brain box

FRAMES

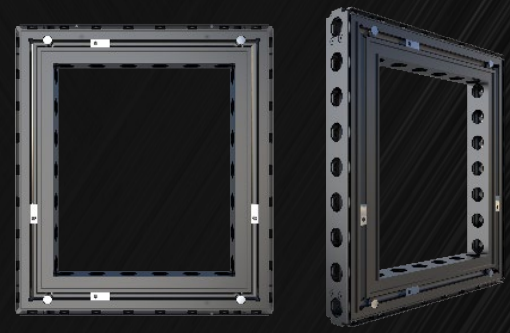


2*2 600*675

1*2 300*675

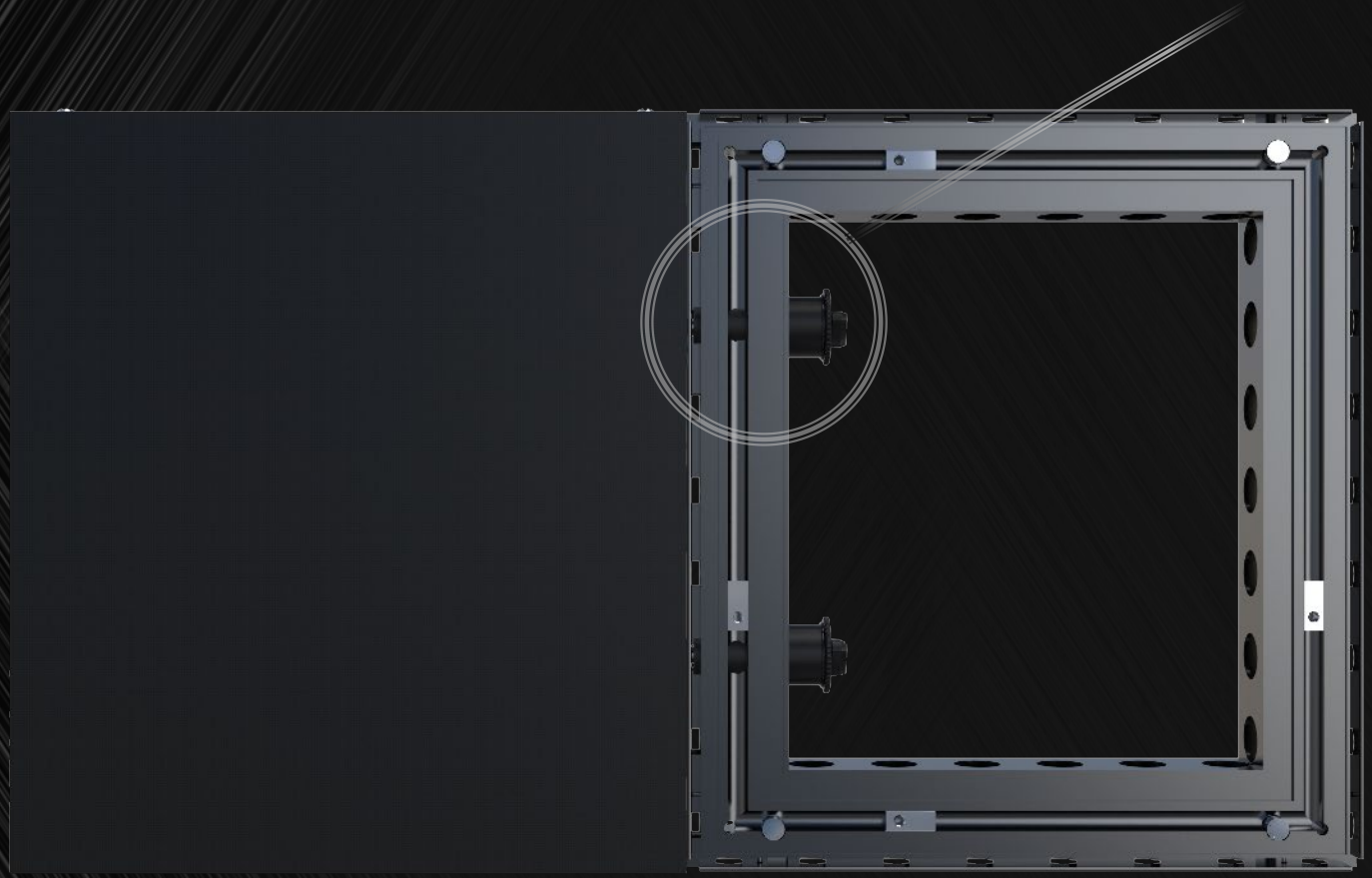


2*1 600*337.5

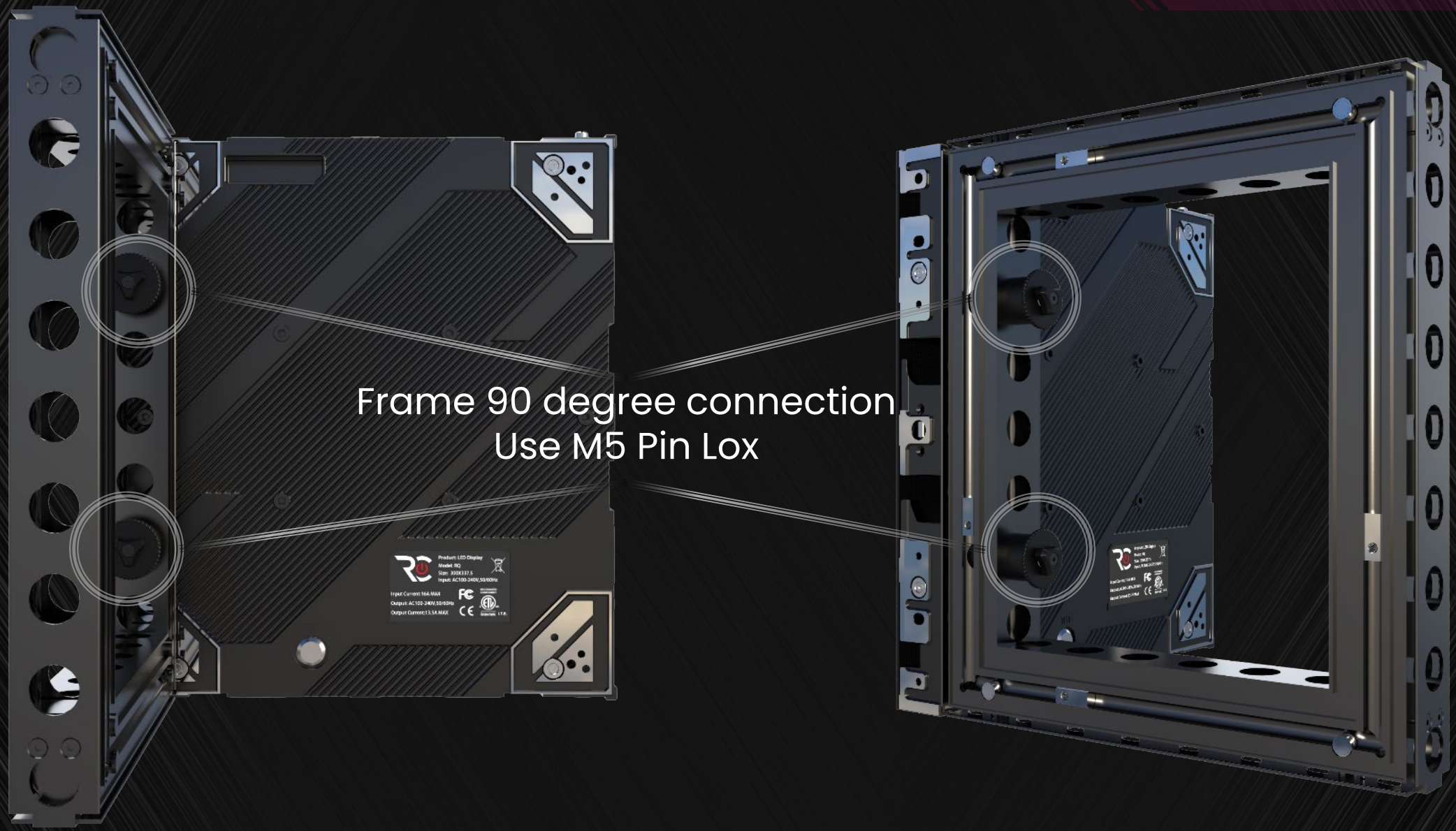


1*1 300*337.5

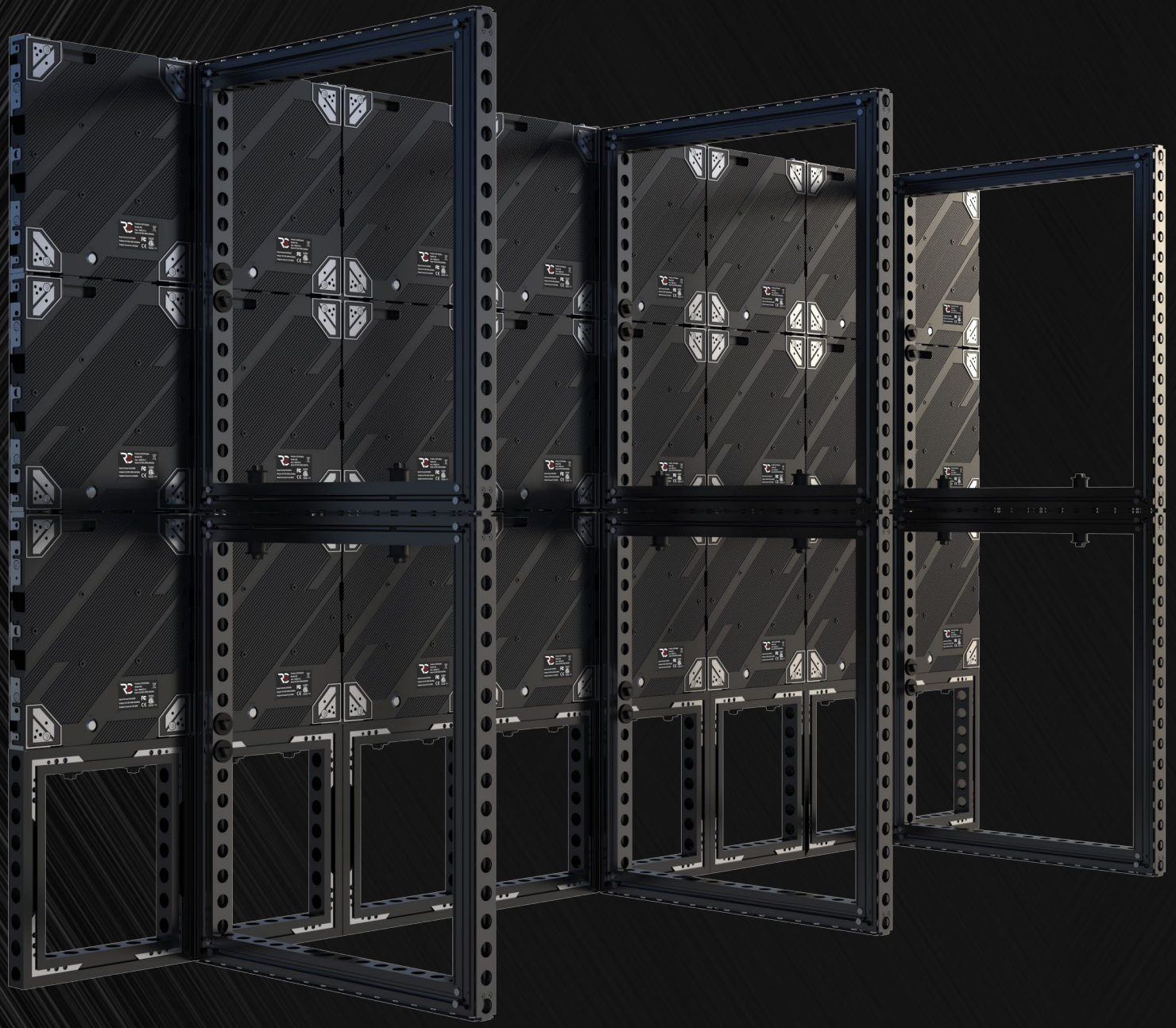
Frame side connection
Use M5 Pin Lox



FRAME CONNECTION

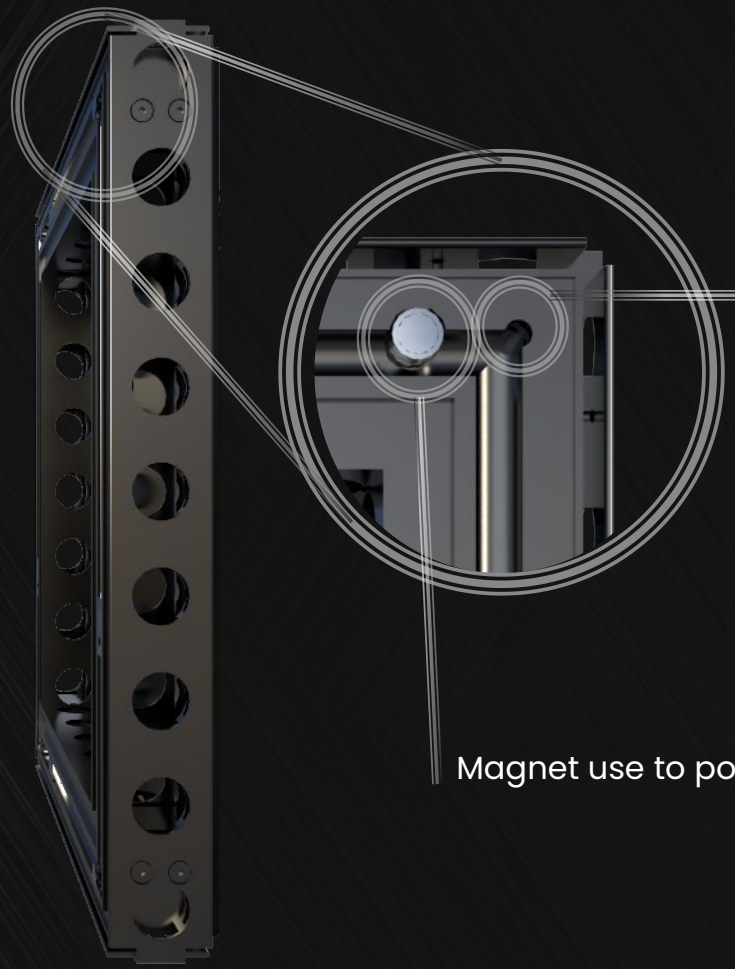


FRAME CONNECTION



Using these frame connection methods to create a stacking LED display screen for exhibition

Frame Rear connection
Use M5 screw



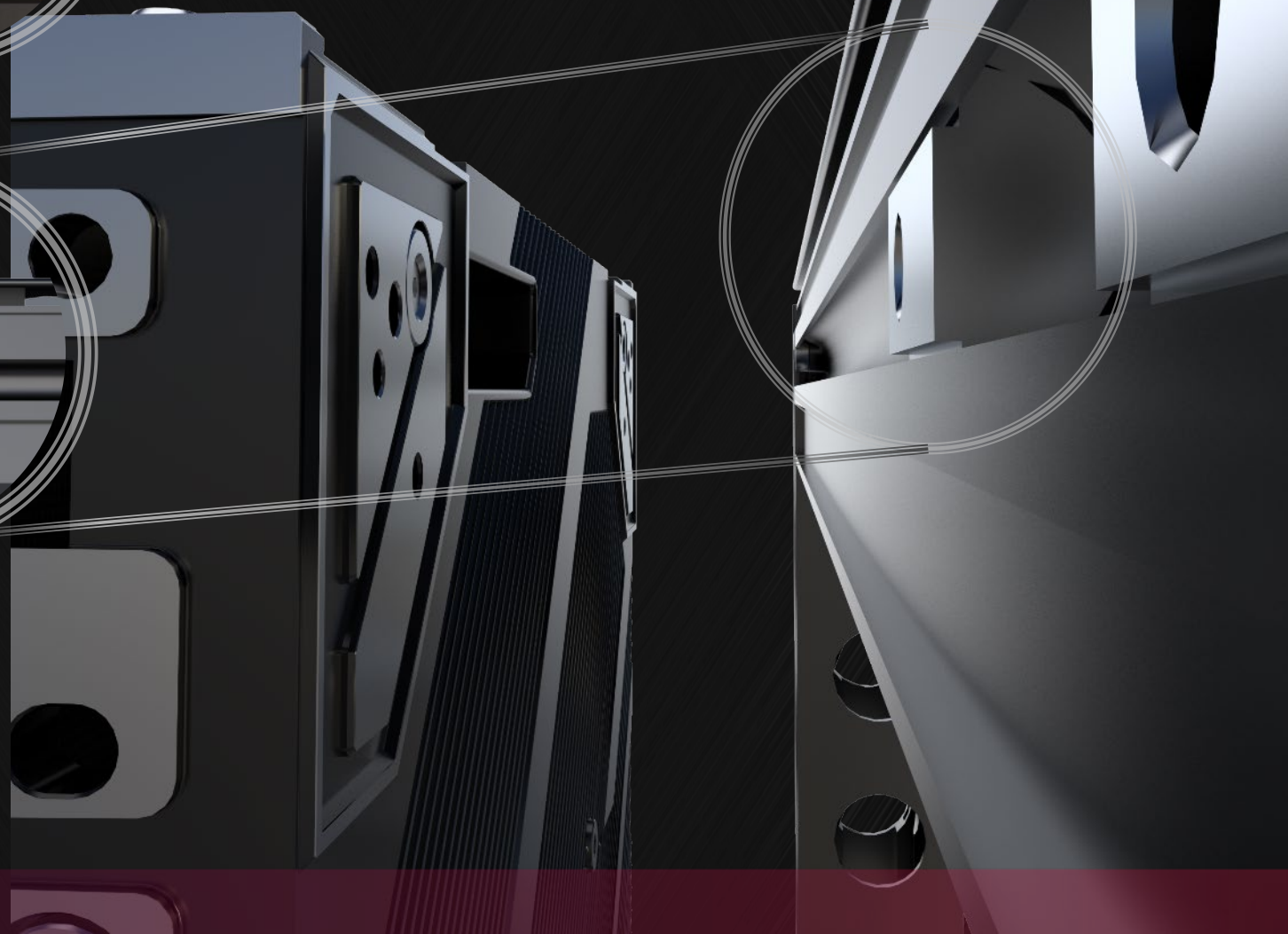
M5 screw hole for connection
Need to remove modules from
Cabinet before connecting

Magnet use to positioning cabinet

Creative exhibition use

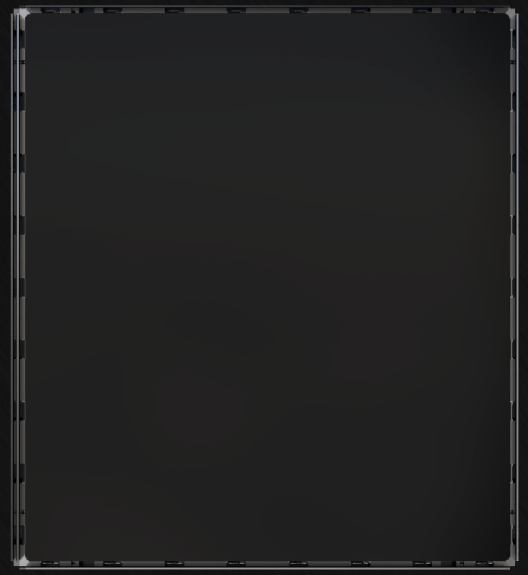
FRAME CONNECTION

Frame Rear connection
Use slidable die-cast connecting plate
Connect with cabinet this M5 screw hole



Creative exhibition use

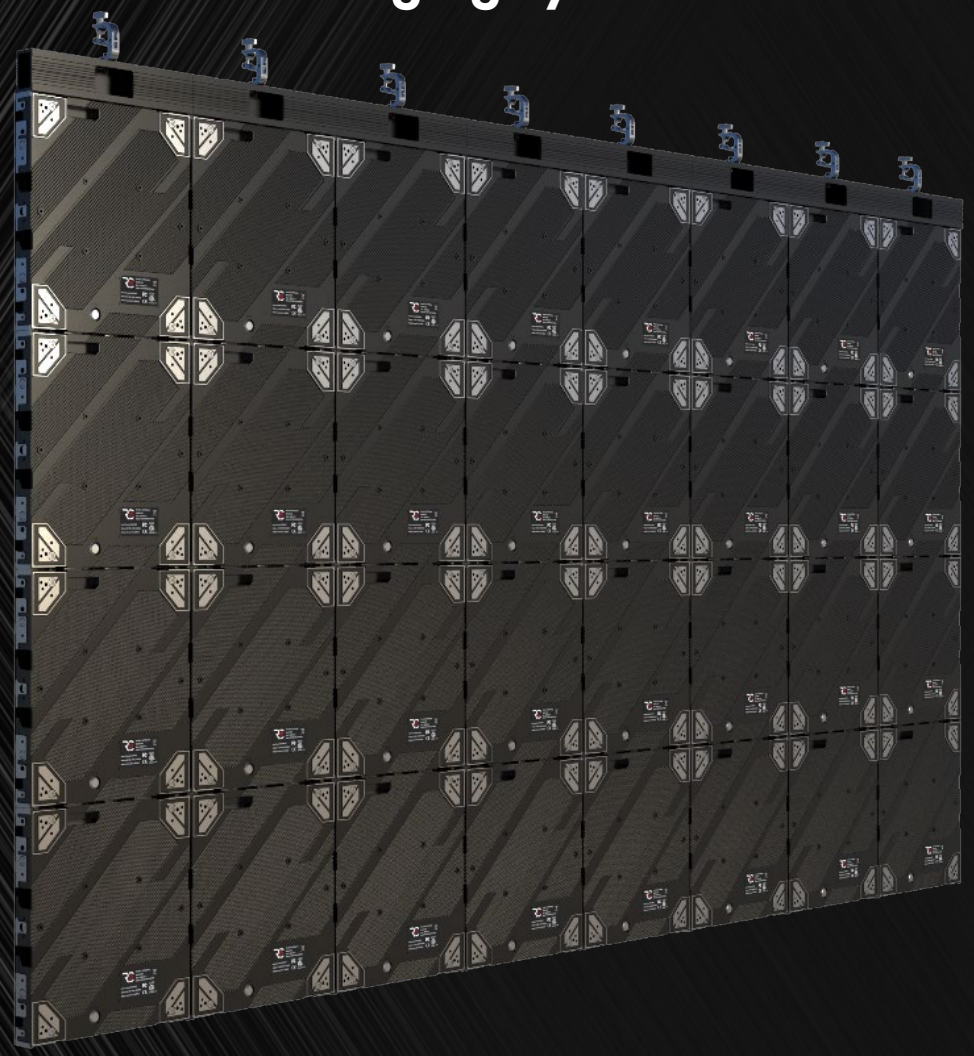
Cover Plate extension
Attach to corner magnet



Usage demonstration

Usage demonstration

Hanging System



Stacking System

Two make Standard 16:9 aspect ratio

From 1080p to 8k, extend to infinite

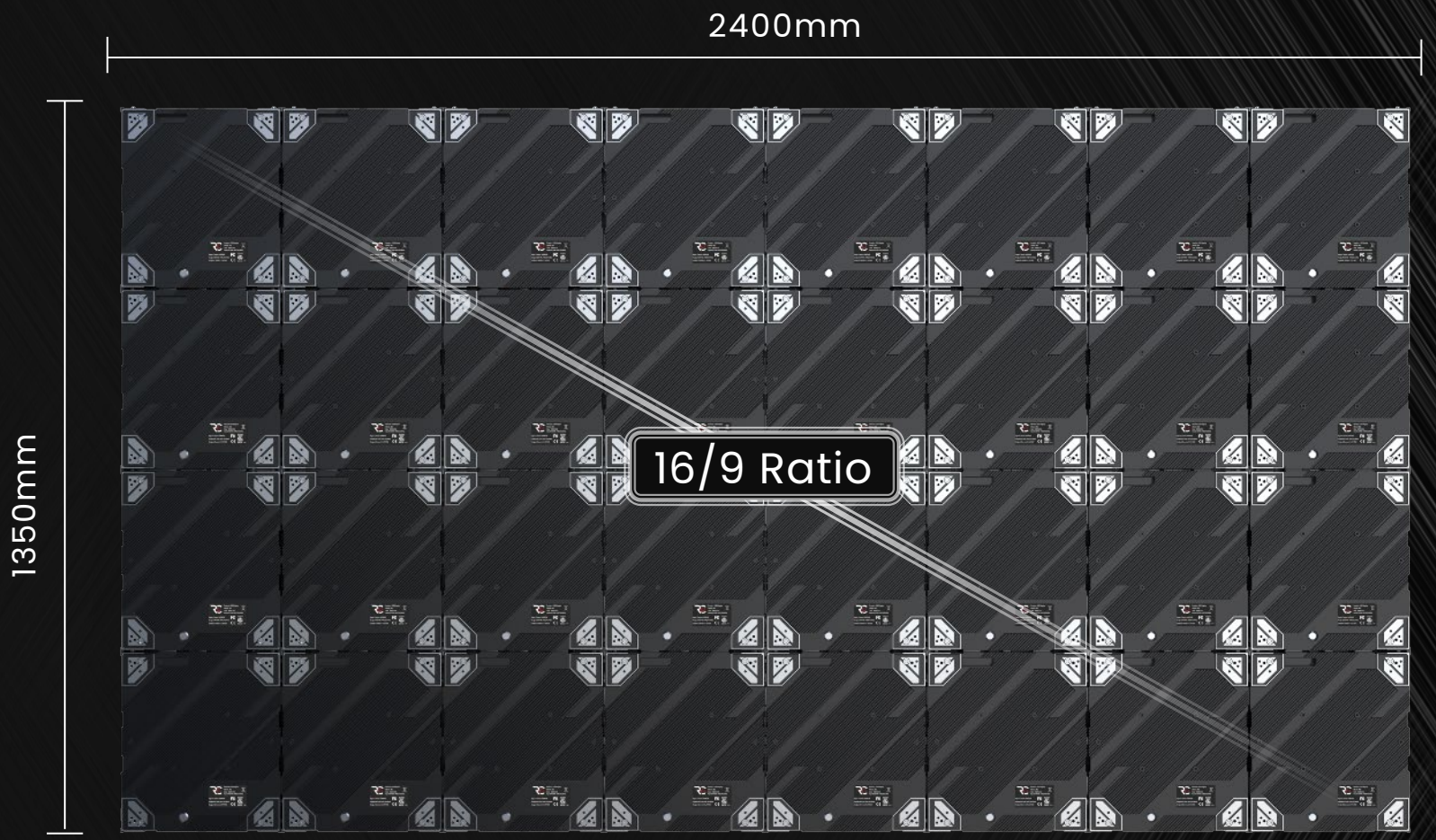
Full HD : P0.9 - 6*3pcs 81.3”

P1.25 – 8*4pcs 108.4”

P1.56 – 10*5pcs 135.5”

P1.87 – 12*6pcs 162.6”

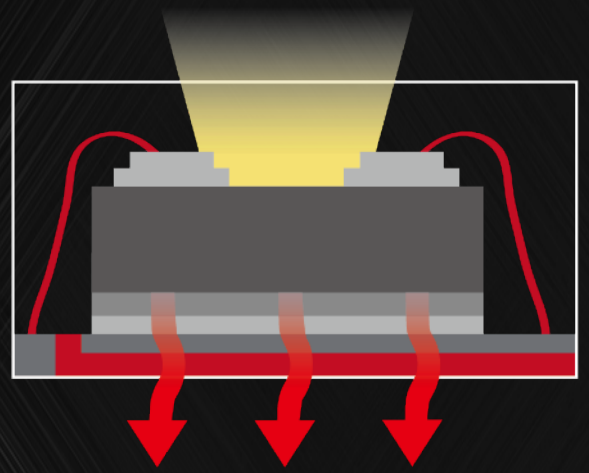
P1.56 2K Resolutions



No size limited 16:9

Narrow Light

20% radiate light covered by wires

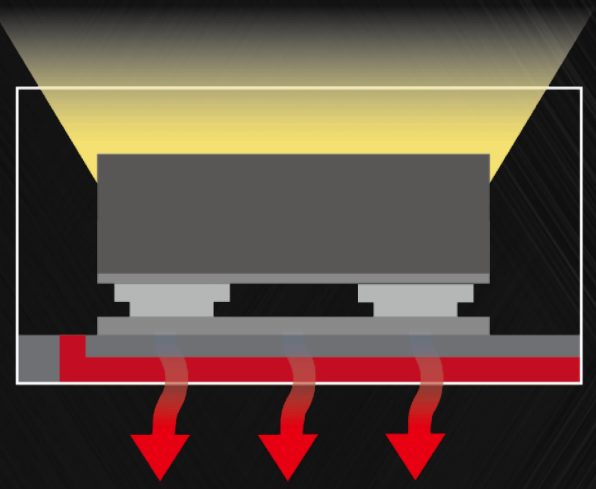


Inefficient Heat Flow

ORDINARY COB CHIP

Wide Light

not influenced by wires



Efficient Heat Flow

FLIP CHIP

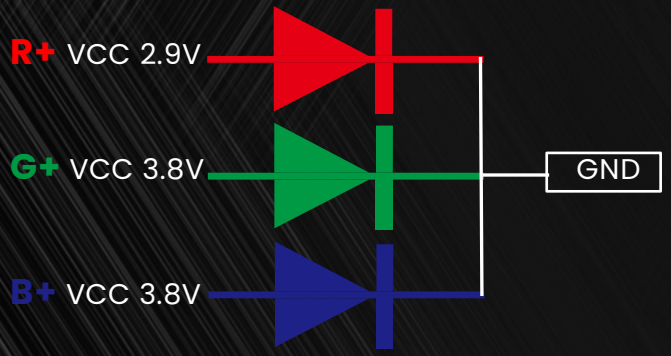
- Better heat dissipation
- Can reach Higher pixel density
- No holder and alloy wire, less production processes, more reliable
- More flexible

CCT OR CAT

CCT Common Cathode Technology

VS

CAT Common Anode Technology



- Power saving
- Low heat conduction
- Extended life-span
- Perfect performance

	CAT	/	CCT	≈	20%	
R (10MA)	4.2V	-	2.8V	=	1.4V	IC
G (10MA)	4.2V	-	3.8V	=	0.4V	IC
B (10MA)	4.2V	-	3.8V	=	0.4V	IC
(10MA+10MA+10MA) x 4.2V =0.126W						
10MA x 2.8V + (10MA+10MA) x 3.8V = 0.104W						
0.104/0.126=82.5%