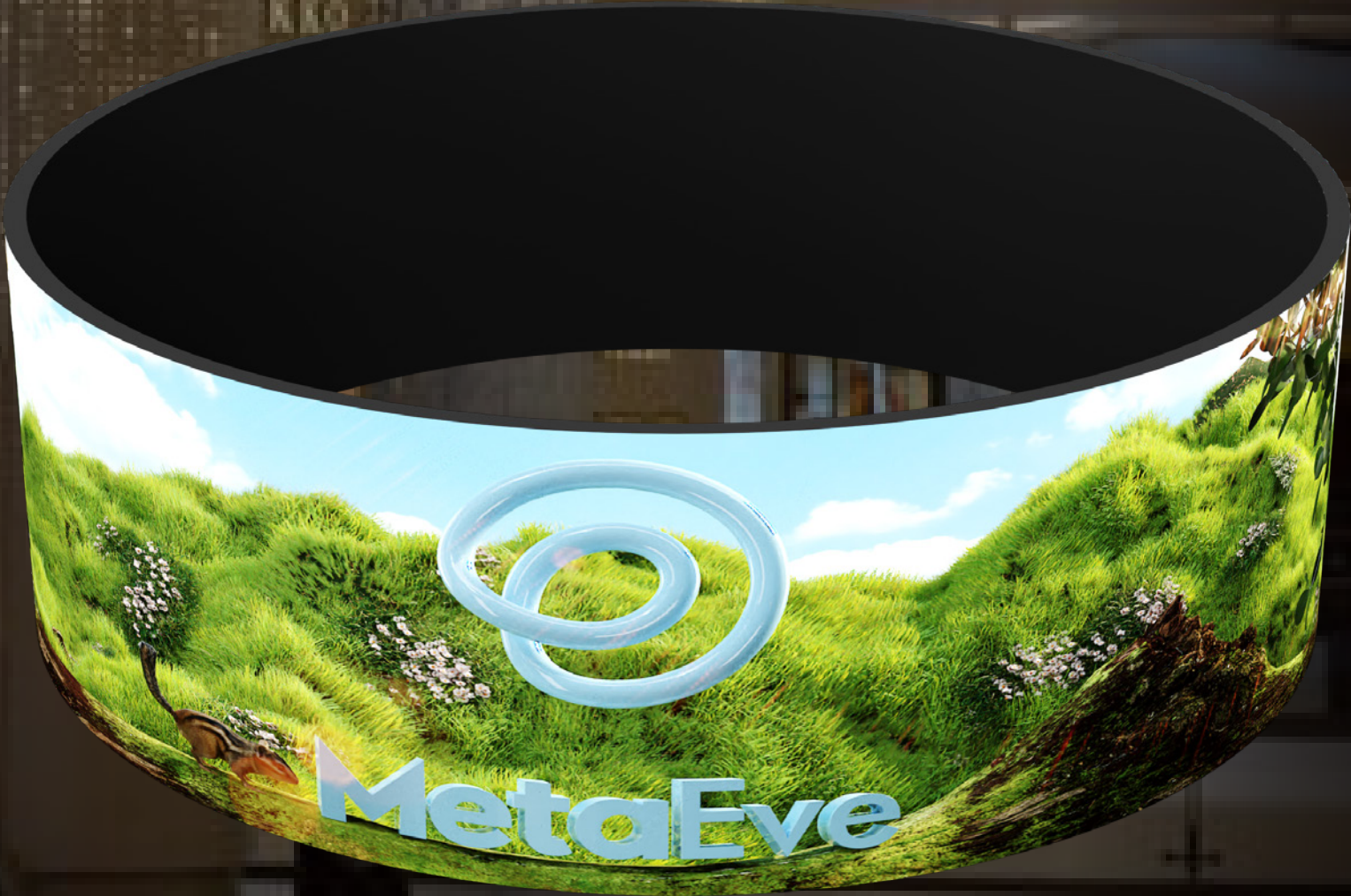# iFlex pro

Flexible LED Screen

Description

iFlex indoor soft screen is design for indoor and semi-outdoor retail applications where request flexible and sustainable LED creations that refocus human attention. It offers you a seamless solution for Cylinder surfaced walls, ribbon, concave and convex, and innovative designs.

- Wide viewing angle
- High refresh rate
- High grayscale
- Better flexibility

Specs

Model	F1.875	F2.5	F3	F4	F4.8	F6	F4.8
Application	indoor	indoor	indoor	indoor	indoor	indoor	outdoor
Pixel Pitch	1.875mm	2.5mm	3mm	4mm	4.8mm	6mm	4.8mm
Physical Density	284444	160000	111111	62500	43403	27778	43403
LED Type	SMD1010	SMD1515	SMD2121	SMD2121	SMD2121	SMD3528	SMD1921
Module Resolution	144*64	96*48	80*40	60*30	48*40	40*20	48*40
Module Size	270*120mm	240*120mm	240*120mm	240*120mm	230.4*192mm	240*120mm	230.4*192mm
Color Temperature	6500	6500	6500	6500	6500	6500	6500
Viewing Angle	>120	>120	>120	>120	>120	>120	>120
Brightness	≥800cd/㎡	≥1000cd/㎡	≥1000cd/㎡	≥1000cd/㎡	≥1000cd/㎡	≥1000cd/㎡	≥5500cd/㎡
Refresh Rate	≥1000Hz	≥1000Hz	≥1000Hz	≥1000Hz	≥1000Hz	≥1000Hz	≥1000Hz
Frame Frequency	≥60Hz	≥60Hz	≥60Hz	≥60Hz	≥60Hz	≥60Hz	≥60Hz
Dead pixel Rate	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Life Time	100000 hours	100000 hours	100000 hours	100000 hours	100000 hours	100000 hours	100000 hours
The Min Diameter	516mm	458mm	305mm	305mm	305mm	305mm	305mm

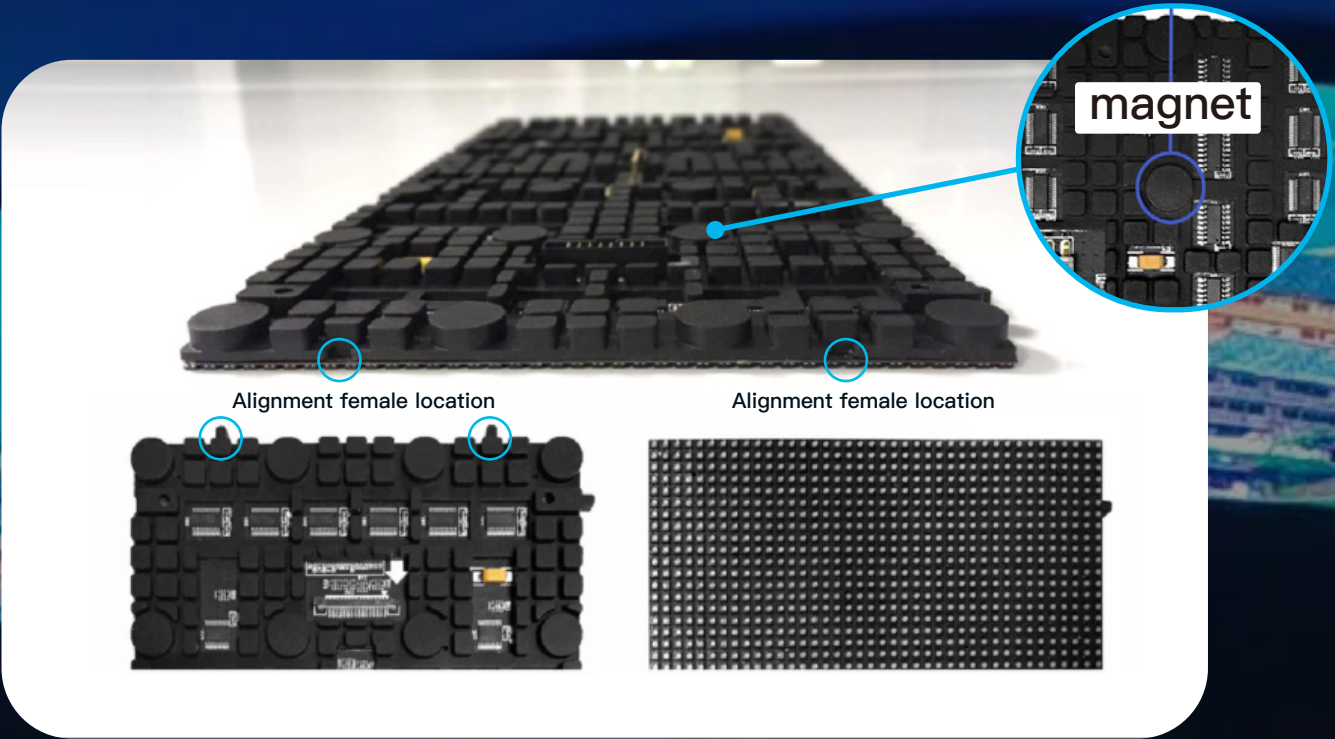4 modules to make one cylinder surface, the minimum diameter is less than 0.3m

Better Alignment

The flexible LED display design distributes the magnets to ensure that all modules are assembled smoothly on the structure.
It also balances the strength of the modules when they are bent.
Modules have locating pins for seamless and easy assembly.
Fully flexible PCB and silicon material on the rear side of the PCB.

magnet

Alignment female location   Alignment female location

Case inspiration

Comparison

Items	Flex from market	Flex from iDisplay	Flex from one supplier
Picture			
Pixel pitch	indoor P2, P2.5, P3,P4, P5,P6,P8,P10	indoor P1.875,P2.5,P3,P4,P4.8,P6; semi outdoor P4.8	P4, P6
Module dimension	Different module size for different pitches	240x120mm for most pitches	288x120mm
Smallest Diameter	<500mm	<300mm	>500mm
Silicon	Silicon at the edge only	Full flexible silicon	Strip plastic design, less flexibility
Magnet	Magnet at the edge only	Average distributed magnet to balance the module strengh when it was bent	Magnet at the edge only
PCB	PCB circurt is easy to break when it was bent	The full silicon design will protect us from bent the module too much	Strip design limits the degree of bent but protect PCB
EMC	Not EMC approval	EMC Class A	EMC design?
Cost	Lower cost	Cost effective	Expensive