MagicCarpet

Ultra-Light Flyable LED Display

LED Screen on Drone Specification			
Pixel Pitch	P15	P20	P25
Pixel Density	4356 dots/m²	2500 dots/m²	1600 dots/m²
Brightness	1200 cd/m²	800 cd/m²	500 cd/m²
Power consumption	100 W/m², 30 W/m²	60 W/m², 24 W/m²	40 W/m², 20 W/m²
Product form	Mesh weaving		
Color	Full color		
Grayscale adjustment level	65536 levels (16bit)		
Output voltage	DC5V (DC12V optional)		
Supported video formats	MP4 / MKV / AVI / MOV / 3GP		
Supported image formats	JPEG / GIF / BMP / PNG		
IP Level	IP54		
Life Span	50,000 hours		
Control system	Redfive/Novastar		
Working Humidity	Relative humidity ≦ 85%		
Operating temperature	-20°C ~ 50°C		
Storage temperature	-40°C ~ 60°C		
Storage Humidity	Relative humidity ≦ 85%		
Usage environment	Indoor (Outdoor in the night)		
Certificate	CE / RoHS / FCC		

RF5 Drone Specification					
Model	RF5 E10	RF5 E15	RF5 E25	RF5 E35	RF5 E50
No-load endurance	Max 40mins	Max 40mins	Max 40 mins	Max 40 mins	Max 40 mins
Load endurance	About 10–20mins	About 10–20mins	About 10–20 mins	About 10–20 mins	About 10–20 mins
Flight speed	80km/hour	80km/hour	100 km/hour	100 km/hour	100 km/hour
Hovering accuracy	0.35m	0.35m	0.35 m	0.35 m	0.35 m
Max size	1115*1230*450 mm	1365*1505*500 mm	1780*1960*550 mm	2190*2415*600 mm	2650*2915*700 mm
Folded size	400*400*450 mm	450*450*500 mm	650*650*550 mm	750*750*600 mm	900*900*700 mm
Load capacity	10kg	15kg	25 kg	35 kg	50 kg
Suggested Magicsky size (H/V)	Popular size: 2*4m or less than 8sqm	Popular size: 3*4m or less than 12sqm	Popular size: 3*6m or less than 20sqm	Popular size: 4*8m or less than 32sqm	Popular size: 4*10m or less than 40sqm
Suggested pixel pitch	P15	P15	P20	P20	P20/P25

90m²
in 1 CBM

Flexible and Rollable, Easy to Transport

Flexible design allows rolling and folding to fit diverse performances, while compact storage of 90 m² per cubic meter, cuts transport, storage, and labor costs.

Thickness: **4mm**

Weight: **1.2KG/㎡**

Ultra-Light and Ultra-Thin for Seamless Flight

Weight: Less than 1.2kg/㎡, significantly reducing drone load.

Thickness: Less than 4mm, offering extreme thinness for versatile performances.

High Transparency & Wind Permeability

Up to 70% Transparency & Wind Permeability

Enjoy crystal-clear visuals with minimal wind resistance — perfect for low-altitude, outdoor drone performances.

MagicCarpet is an innovative LED display designed specifically for drone-mounted applications. With its ultra-lightweight, ultra-thin, highly transparent, and wind-permeable design, it is ideal for artistic performances, low-altitude advertising, drone shows, and cultural tourism events. Its flexible, rollable structure and efficient transportation and storage make MagicCarpet a game-changer in creative visual displays, leading the next generation of aerial visual experiences.
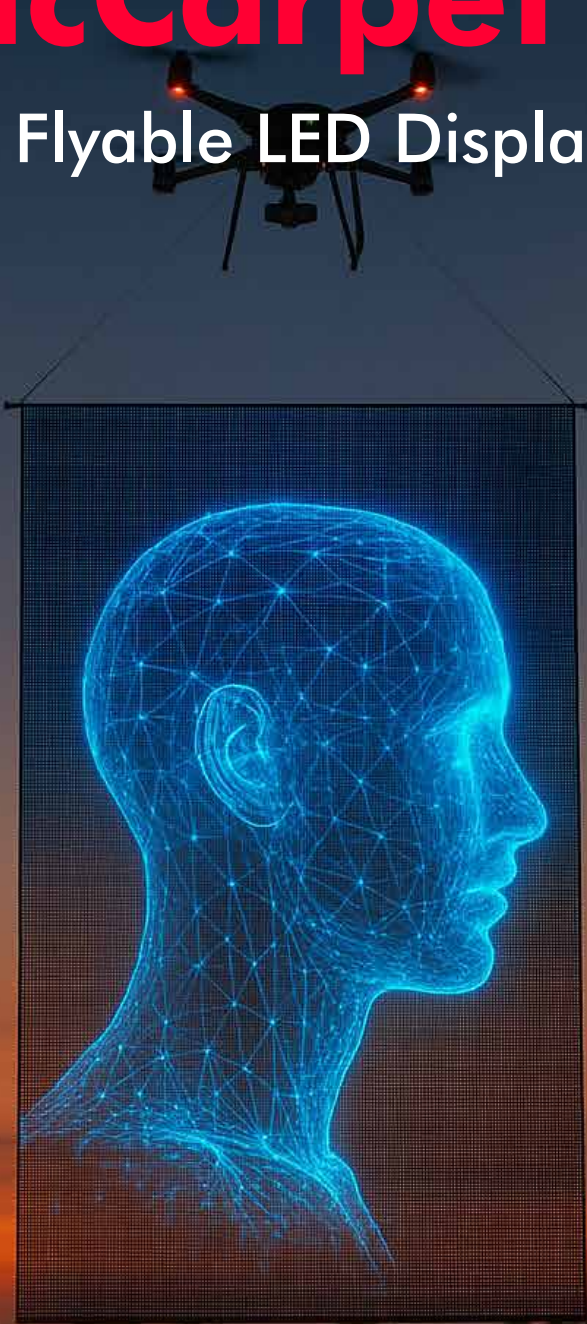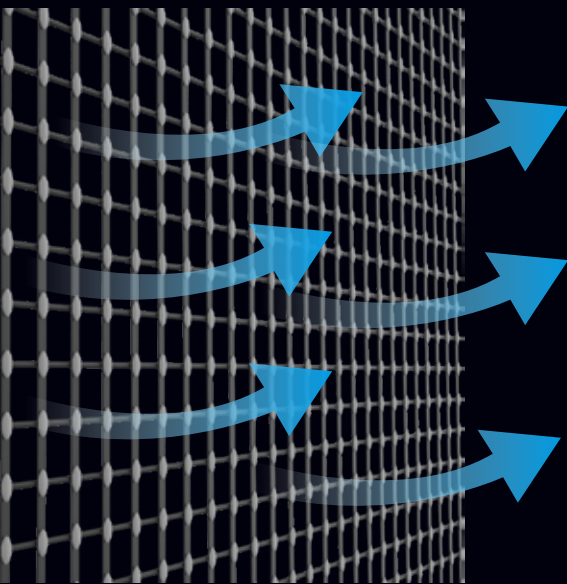
iDISPLAY

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Energy-Efficient with Smart Control

Control Methods: Supports APP/PC operation, WiFi+4G remote control, and single or multi-screen control.

Playback Formats: Compatible with MP4, RMVB, MKV, AVI, and other mainstream video formats for refined visuals.

Eco-Friendly: Low power consumption design suitable for extended use.

APP/PC/USB/WiFi+4G

Multiple modes make sending programs easier, with one click sending on a mobile app

Battery box   Controller   Battery box

Customizable Sizes for Versatile Applications

Fully customizable sizes to meet diverse event requirements。

LED Bead Size: 11*5.5mm

Custom Pixel Pitch

CREATIVE APPLICATION SCENARIOS

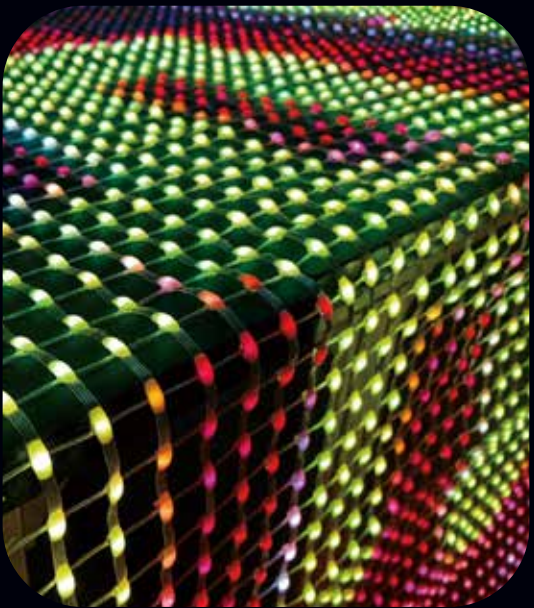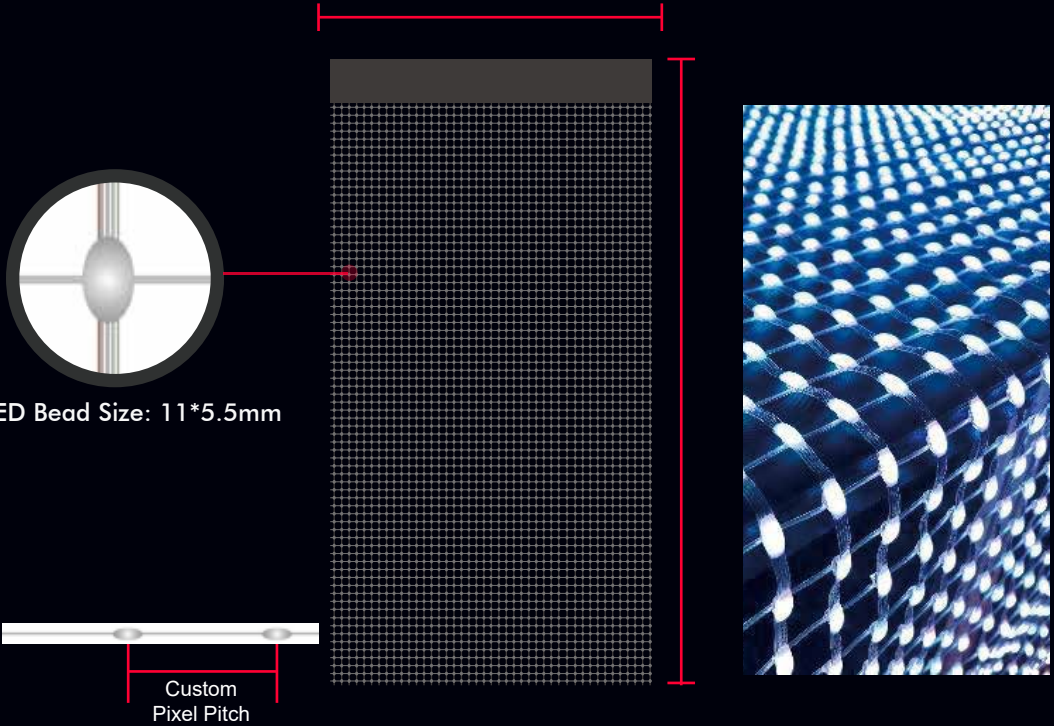LOW-ALTITUDE ADVERTISING

EYE-CATCHING AERIAL ADVERTISEMENTS

Multi-pieces Splicing Technology

Equipped with multi-screen splicing capabilities in all directions—top, bottom, left, and right—it creates stunning, immersive visual effects.

Durable and Reliable Performance

Made from high-transparency mesh material, soft as cloth, making it easy to transport and install. Patented alignment technology ensures uniform LED arrangement for Stability and high-quality visuals.