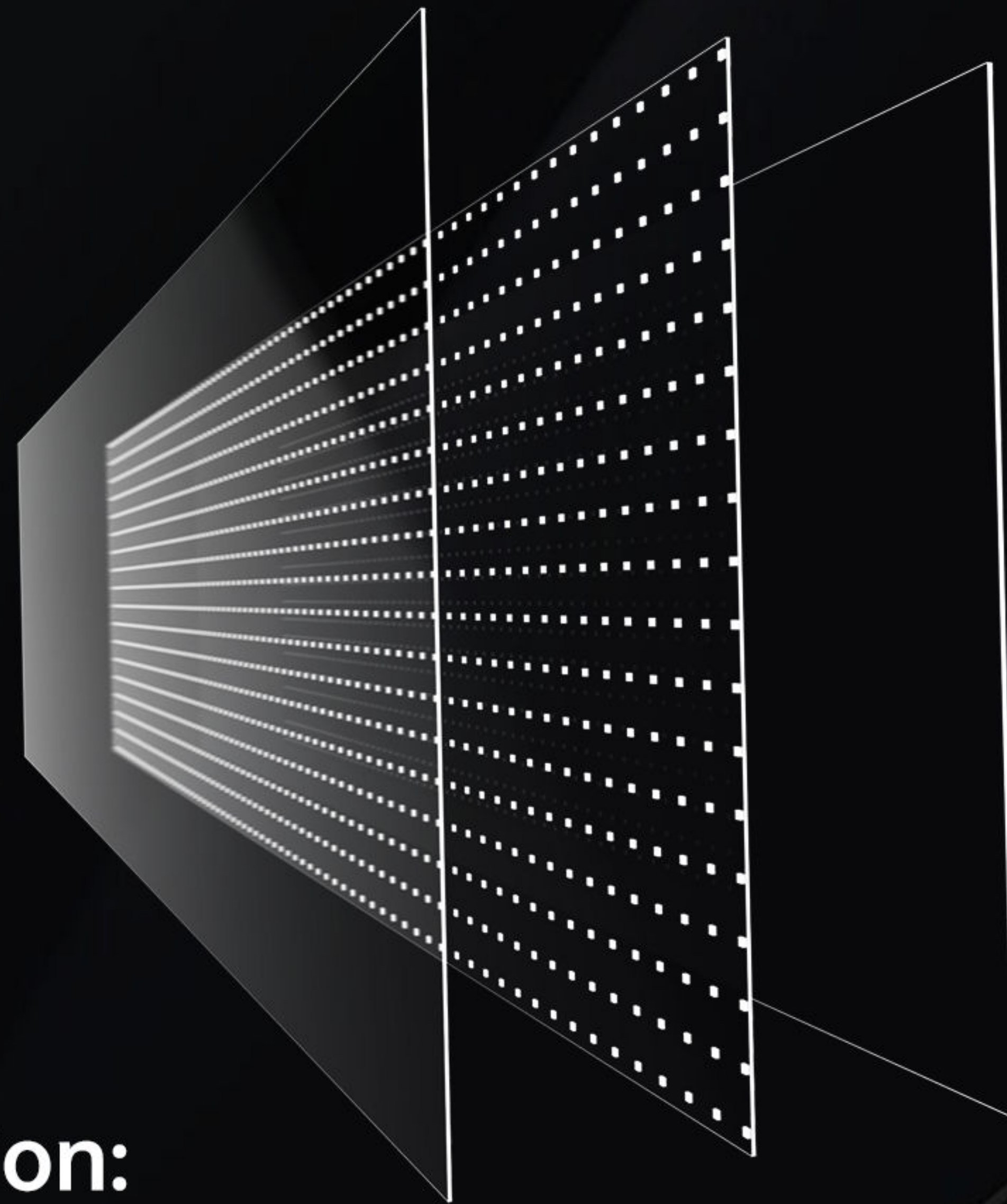# A Series- AFE

Smart Glass

Product Description:

A product with customizable length and a design featuring fully tempered glass using physical processes.

Product Features:

1.High reliability: The design of fully physically tempered glass ensures a high level of reliability.
2.Safety: When the glass is subjected to external force and breaks, the resulting fragments are in the form of dull-angled small particles, similar to honeycombs, which are less likely to cause severe injury to the human body.

Product Advantages:

1. High strength: Tempered glass of the same thickness has 3 to 5 times the impact resistance and bending strength of ordinary glass.
2. Thermal stability: Tempered glass exhibits excellent thermal stability, with the ability to withstand a temperature difference three times greater than that of ordinary glass, and can tolerate temperature fluctuations up to 300°C.

Applications:

Widely used in various types of commercial complexes, such as sightseeing elevators, curtain wall facades, branded chain stores, tea and dining establishments, bakeries, advertising media, transportation hubs like high-speed railway stations and subways, as well as stage design, beautiful scenery, bars and so on.

Main Technical Specifications：

Classification	Name	Demand			
Technical parameter	Pixel Pitch (mm)	AFE-P8	AFE-P10	AFE-P16	AFE-P32
	Pixel Density(PX/㎡)	15625	10000	3844	961
	LED Packaging Type	SMD2121	SMD2121	SMD2121	SMD2121
	Pixel Composition	1R1G1B	1R1G1B	1R1G1B	1R1G1B
	Module Size (mm)	Customized	Customized	Customized	Customized
	Module Composition	1000mm*240mm	1000mm*240mm	1000mm*240mm	1000mm*240mm
	Module Flatness (mm)	Splicing between modules<0.1	Splicing between modules<0.1	Splicing between modules<0.1	Splicing between modules<0.1
	Module Resolution (Pixel)	125*30	100*24	62*15	31*7
	Scanning Mode (S)	Static	Static	Static	Static
	Driving Mode	Constant current driving	Constant current driving	Constant current driving	Constant current driving
	Transparency rate	≥85%	≥85%	≥90%	≥90%
	Attenuation rate	Less than 0.05% within 2 years	Less than 0.05% within 2 years	Less than 0.05% within 2 years	Less than 0.05% within 2 years
	Refresh Rate (Hz)	8000	8000	8000	8000
	Frame Rate (Hz)	>60	>60	>60	>60
	Gray Level	16	16	16	16
	Material of the connector	Copper	Copper	Copper	Copper
	Material	Physically tempered glass	Physically tempered glass	Physically tempered glass	Physically tempered glass
	Weight (KG/㎡)	<35	<35	<35	<35
	Size(mm)	Customized	Customized	Customized	Customized
	Thickness (mm)	15	15	15	15
	IP Rate	IP65	IP65	IP65	IP65
	Maintenance Mode	dismantle glass	dismantle glass	dismantle glass	dismantle glass
Optical characteristic	Brightness (nits)	1500-4000	1500-4000	1500-4000	1500-4000
	Color Temperature (K)	3200-8500	3200-8500	3200-8500	3200-8500
	Visual range(m)	1.8-250	1.8-250	1.8-250	1.8-250
	Light-emitting Component	RGB	RGB	RGB	RGB
	Brightness Adjust	Automatic or manual adjustment, 256 levels	Automatic or manual adjustment, 256 levels	Automatic or manual adjustment, 256 levels	Automatic or manual adjustment, 256 levels
	View Angle	Horizontal ≥140°, vertical ≥ 140°	Horizontal ≥140°, vertical ≥ 140°	Horizontal ≥140°, vertical ≥ 140°	Horizontal ≥140°, vertical ≥ 140°
	Contrast Ratio	6000:1	6000:1	4000:1	4000:1

Main Technical Specifications：

Classification	Name	Demand			
Electrical parameter	Input Voltage (V)	AC220V±10%;AC50HZ, Optional wide voltage 110V,9-36V	AC220V±10%;AC50HZ, Optional wide voltage 110V,9-36V	AC220V±10%;AC50HZ, Optional wide voltage 110V,9-36V	AC220V±10%;AC50HZ, Optional wide voltage 110V,9-36V
	Maximum Power Consumption (W/㎡)	800	800	800	800
	Average Power Consumption (W/㎡)	200	200	200	200
Usage parameter	Typical LED Lifetime (H)	100000	100000	100000	100000
	Constant Working Time(H)	>72	>72	>72	>72
	Mean Time Between Failures	Up to 10000 hours	Up to 10000 hours	Up to 10000 hours	Up to 10000 hours
	Input	DVI/VGA/composite video	DVI/VGA/composite video	DVI/VGA/composite video	DVI/VGA/composite video
	Working Temperature (℃)	-20~+50	-20~+50	-20~+50	-20~+50
	Control system	Nova Star with Synchronous or asynchronous / Color light with Synchronous or asynchronous	Nova Star with Synchronous or asynchronous / Color light with Synchronous or asynchronous	Nova Star with Synchronous or asynchronous / Color light with Synchronous or asynchronous	Nova Star with Synchronous or asynchronous / Color light with Synchronous or asynchronous
	Runaway point	1/10000 (in continuous use)	1/10000 (in continuous use)	1/10000 (in continuous use)	1/10000 (in continuous use)
	Certification	CE,FCC,RoHS	CE,FCC,RoHS	CE,FCC,RoHS	CE,FCC,RoHS