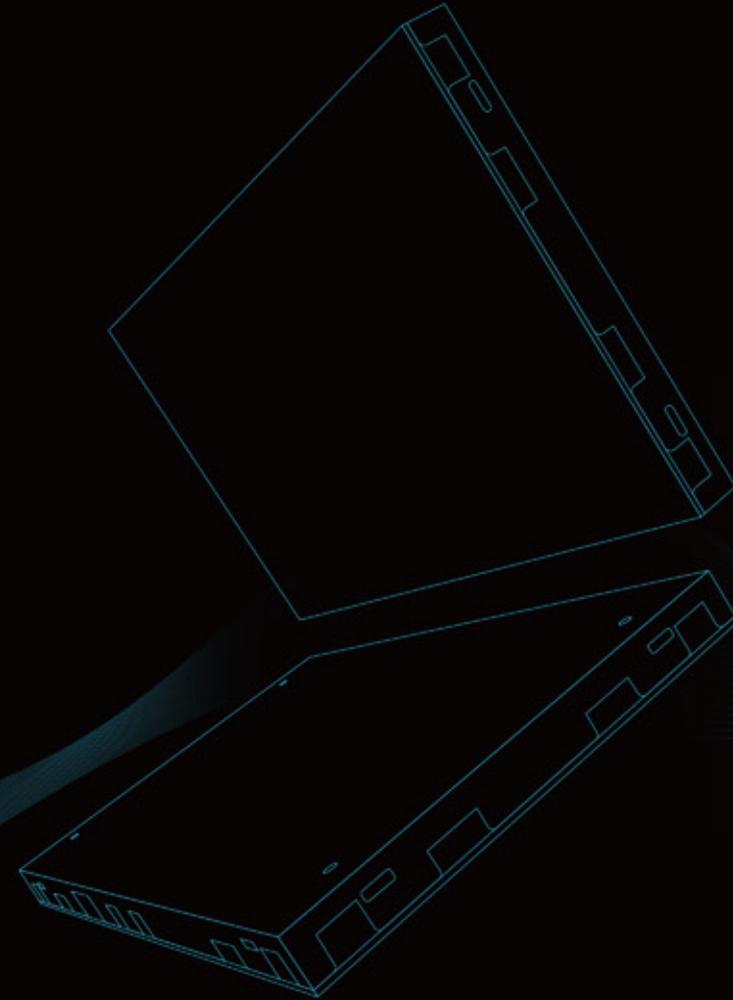
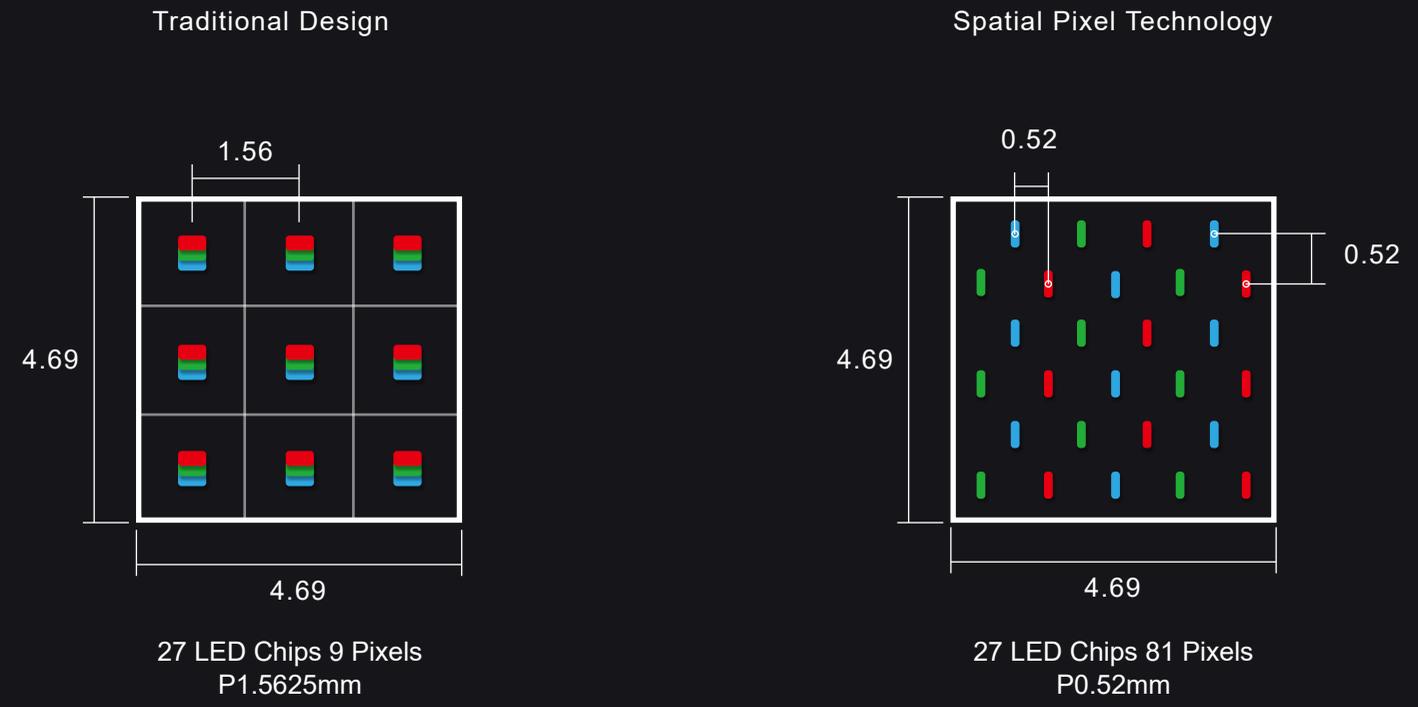


# Full Flip Chip Common Cathode COB Display Elves Series

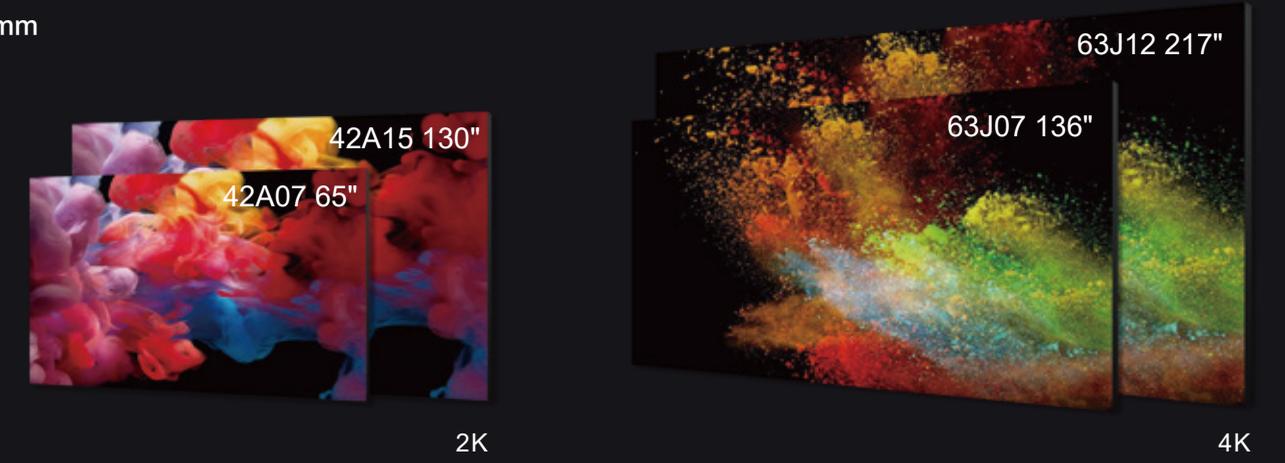


# Spatial Pixel Technology

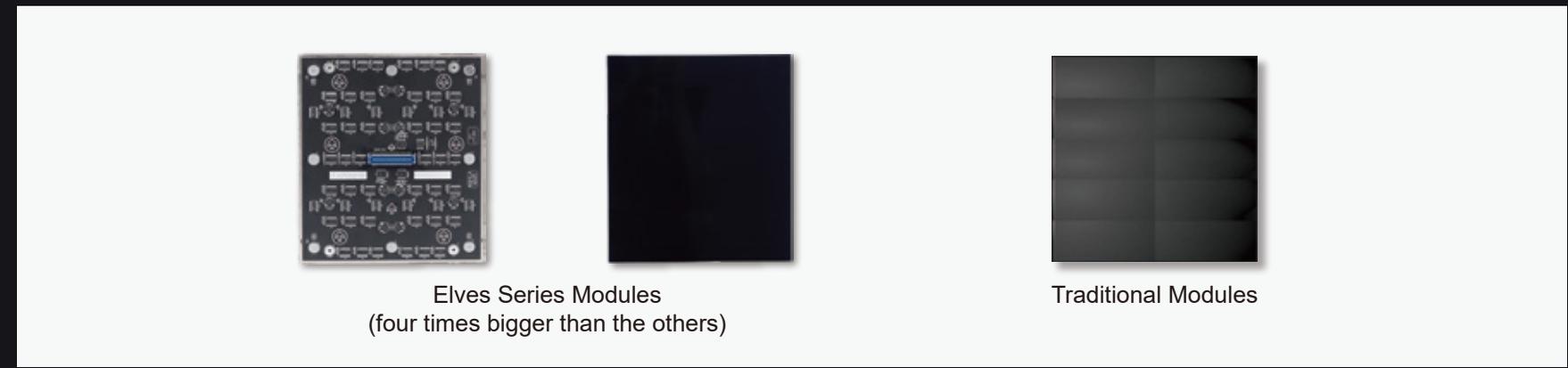


# Product Display

<b>Cabinet</b>	42A: 480×270×28mm
<b>Size</b>	63J: 600×337.5×28mm
	54" Mega: 1200×675×28mm



<b>Module</b>	42A: 120×135mm
<b>Size</b>	63J: 150×168.75mm
	54" Mega: 150×168.75mm



- Seamless Splicing
- Better Heat Dissipation
- Excellent Flatness
- Low Temp Rise
- 100,000 hrs  
Long Lifetime
- Fanless Design
- Noiseless Design
- Automatic Alarm
- Low Failure Rate
- User Safety
- Customized

# Super Slim & Super Light



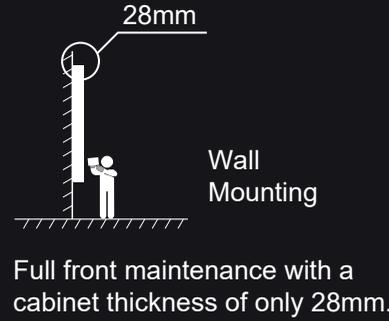
Cabinet Size: 480 × 270 mm  
Weight: 3.11 kg



Cabinet Size: 600 × 337.5 mm  
Weight: 4.69 kg



Cabinet Size: 1200 × 675 mm  
Weight: 17.5 kg



# High Grayscale Technology & High Refresh Rate

- By control system algorithm processing 22 bits or more, screen can reach 20 bits performance quality.
- High refresh rate of up to 7680Hz maintains high-quality display performance.



Before

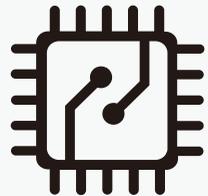
After



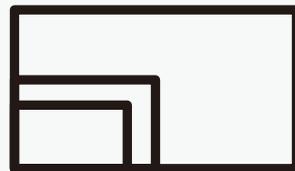
COB Display  
(high refresh rate)

Traditional LED Display  
(low refresh rate)

# COB Customized



Different Drive IC  
(ICN / MBI / Xm-Plus)



Different Cabinet Sizes



Dead Pixel Detection or  
Customized Functions

# Certification



ETL Certificate



CE-EMC Certificate



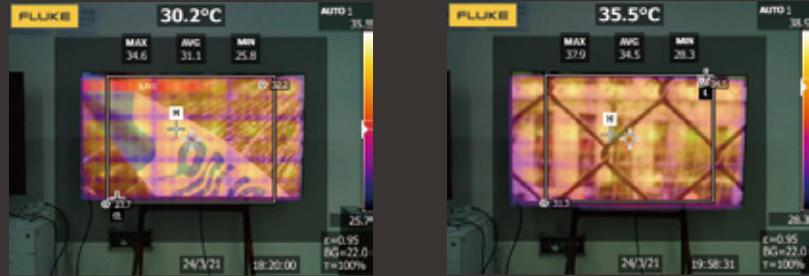
ROHS Certificate

## Ultra Low Temperature Rise

## Excellent Energy Saving

## Full Flip Chip Common Cathode COB

Adopting advanced full flip chip common cathode Micro LED technology, the screen temperature rise is extremely low, and under the same brightness conditions, it is more than 30% energy saving than traditional LED display. The Elves Series has high stability and reliability, and can realize high-level impact-resistant, water-resistant and dust-resistant. Infinite and seamless splicing bring you a stunning visual experience. Supports full front maintenance and hot swap.

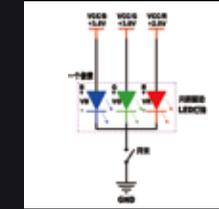


Start Temperature 30.2°C

Temperature After 20 Mins 35.5°C



Only 378W/m<sup>2</sup> P1.25 COB panel at 1000 nits



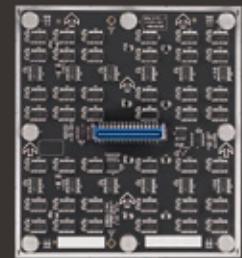
Schematic Diagram of Common Cathode Principle Circuit



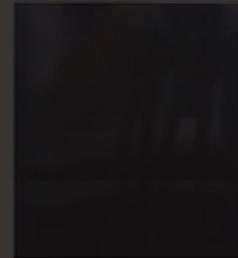
## Module Display

## Ultra High Contrast Ratio 1,000,000 : 1

Superior colour accuracy. Superior performance. With up to 1,000,000:1 contrast ratio, every image and video is recreated in vibrant true to life imagery for an exception viewing experience.



Back of Module



Front of Module



Inside the Panel



0.001 nits ~ 1000 nits



Contrast Ratio: 1,000,000:1



Contrast Ratio: 10,000:1

# Applications

- Home Theater
- Smart Cities
- Education Conferences
- Radio and TV
- Bank Finance
- Security Emergency Command
- Military Aviation Command Center, etc.



# Specification

Elves Series 42A				
	42A07	42A10	42A12	42A15
Pixel Pitch (mm)	0.75	1.0	1.25	1.50
Cabinet Resolution (W×H)	640×360	480×270	384×216	320×180
Brightness (nits) (Colour temp 6500K)	Factory delivery standard: 1000 after calibration			
Pixel Density (dots/m <sup>2</sup> )	1,777,778	1,000,000	640,000	444,444
Cabinet Size (mm)(W×H×D)	480×270×28			
Cabinet Weight (kg)	3.11			
Refresh Rate (Hz)	3840~7680			
Cabinet Flatness (mm)	≤0.1			
Pixel Configuration	COB			
Contrast Ratio	≤1,000,000:1, Ultra high contrast ratio			
Gray Scale (bit)	16 (Control system algorithm processing)			
Max. Power Consumption (W/m <sup>2</sup> )	≤600	≤500	≤450	
Avg. Power Consumption (W/m <sup>2</sup> )	≤200	≤170	≤150	

The parameter index will change according to the specific situation of the project (the product shall be subject to the submitted contract specification)

## Elves Series 63J

	63J07	63J09	63J12	63J15
Pixel Pitch (mm)	0.78125	0.9375	1.25	1.5625
Cabinet Resolution (W×H)	768×432	640×360	480×270	384×216
Brightness (nits) (Colour temp 6500K)	Factory delivery standard: 1000 after calibration			
Pixel Density (dots/m <sup>2</sup> )	1,638,400	1,137,778	640,000	409,600
Cabinet Size (mm)(W×H×D)	600×337.5×28			
Cabinet Weight (kg)	4.69			
Refresh Rate (Hz)	3840~7680			
Cabinet Flatness (mm)	≤0.1			
Pixel Configuration	COB			
Contrast Ratio	≤1,000,000:1, Ultra high contrast ratio			
Gray Scale (bit)	16 (Control system algorithm processing)			
Max. Power Consumption (W/m <sup>2</sup> )	≤600	≤500	≤450	
Avg. Power Consumption (W/m <sup>2</sup> )	≤200	≤170	≤150	

The parameter index will change according to the specific situation of the project (the product shall be subject to the submitted contract specification)

## 54" Mega Series

	M540-06C	M540-07C	M540-09C	M540-12C	M540-15C
Pixel Pitch (mm)	0.625	0.78	0.93	1.25	1.5625
Cabinet Resolution (W×H)	1920×1080	1536×864	1280×720	960×540	768×432
Brightness (nits) (Colour temp 6500K)	Factory delivery standard: 1000 after calibration				
Pixel Density (dots/m <sup>2</sup> )	2,560,000	1,638,400	1,137,776	640,000	409,600
Cabinet Size (mm)(W×H×D)	1200×675×28				
Cabinet Weight (kg)	17.5				
Refresh Rate (Hz)	3840~7680				
Cabinet Flatness (mm)	≤0.1				
Pixel Configuration	COB				
Contrast Ratio	≤1,000,000:1, Ultra high contrast ratio				
Gray Scale (bit)	16 (Control system algorithm processing)				
Max. Power Consumption (W/m <sup>2</sup> )	≤600	≤500	≤450		
Avg. Power Consumption (W/m <sup>2</sup> )	≤240	≤200	≤180		

The parameter index will change according to the specific situation of the project (the product shall be subject to the submitted contract specification)