

Pixel-Mapped Acoustic Star Ceiling Panel – Specification Sheet

5W Per Panel (Full size panel)	56 Star Points	8 LED Pixels	RGBW Colour	12V/24V Input	27mm Low Profile Depth
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PRODUCT FEATURES

- Full panel (1190 × 595 mm): 56 individually addressable fibre optic star points driven by 8 LED pixels
- Half panels (1190 × 295 / 595 × 595 mm): 28 star points driven by 4 LED pixels
- Pixel-mapped (8 sections of a full sized panel) RGBW effects: starfield, cascade, chase, wave, radial, and breathe patterns
- 150+ customisable scenes via mobile app with WiFi synchronisation across panels
- High-density polyester acoustic substrate – aw 0.25 (H), Sound Absorption Class E (ISO 11654)
- Connects via WiFi or wired LAN – integrates with LightEFX touchscreen hub for coordinated scene control
- Fire-tested panel substrate to AS ISO 9705-2003: no flashover, no ceiling ignition, no burning droplets

TECHNICAL SPECIFICATIONS

Light Source	Electrical	Acoustic
Type LED Fibre Optic	Power (full) 5W per panel	Material High-density polyester
Star Points (full) 56 per panel	Input Voltage 12V/24V DC	Surface Matte acoustic
Star Points (half) 28 per panel	Connection WiFi / Wired LAN	Absorption (aw) 0.25 (H)
LED Pixels (full) 8 per panel	Hub Integration LightEFX Touchscreen	Class E (ISO 11654)
LED Pixels (half) 4 per panel	Commissioning App-driven	Test Method ISO 354
Colour RGBW	Scenes 150+ customisable	Substrate Batten on plaster
Panel	Dimensions	Fire Performance
Material High-density polyester	Full Panel 1190 × 595 × 27 mm	Test Standard AS ISO 9705-2003
Finish Black (standard)	Half Panel (wide) 1190 × 295 × 27 mm	Flashover None
Edge Profile Straight or Bevelled edge	Half Panel (square) 595 × 595 × 27 mm	Ceiling Ignition None
Operating Temp -20°C to +40°C	Depth 27 mm	Burning Droplets None
Environment Indoor	PSU Cutout Ø90 mm	Flame Spread Within range
Mounting Screw-fixed to battens	Effects Pixel-mapped dynamic	Note Panel substrate only

ANIMATIONS + EFFECT FAMILIES

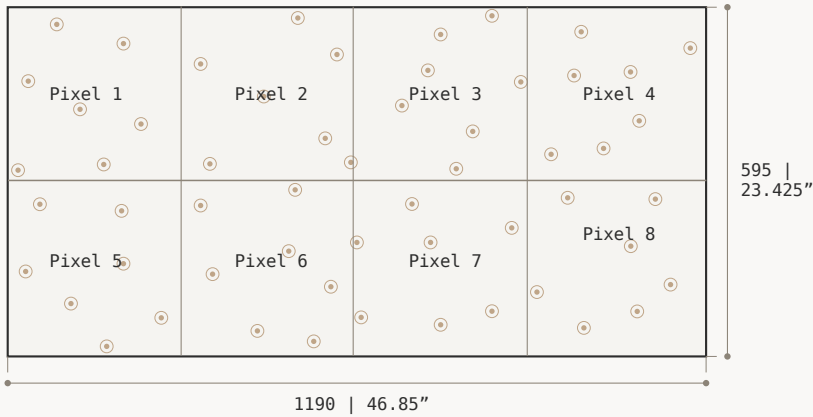
Pixel-mapped RGBW effects engine with 150+ preset scenes and user-adjustable parameters including speed, brightness, colour palette, direction, fade rate, grouping, density, and synchronisation across panels.

- **Starfield**
Randomised twinkle and shimmer
- **Cascade**
Sequential colour flow across panels
- **Wave**
Sinusoidal colour movement
- **Breathe**
Smooth fade in/out across panels
- **Chase**
Directional light sequence patterns
- **Radial**
Centre-outward expanding patterns

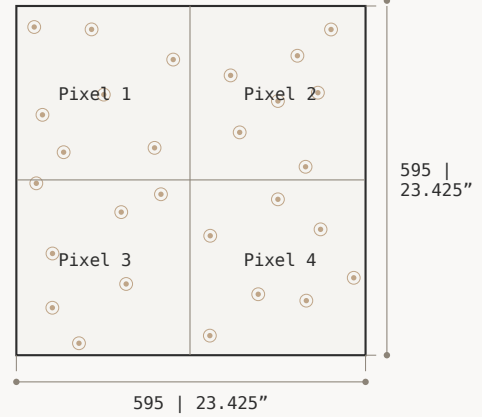
PANEL SIZES + STYLE

Panel	Length (mm)	Width(mm)	Depth(mm)	Star Points	LED Pixels	Power
Full	1190 46.85"	595 23.425"	27 1.06"	56	8	5W
Half (wide)	1190 46.85"	295 11.614"	27 1.06"	28	4	2.5W
Half (square)	595 23.425"	595 23.425"	27 1.06"	28	4	2.5W

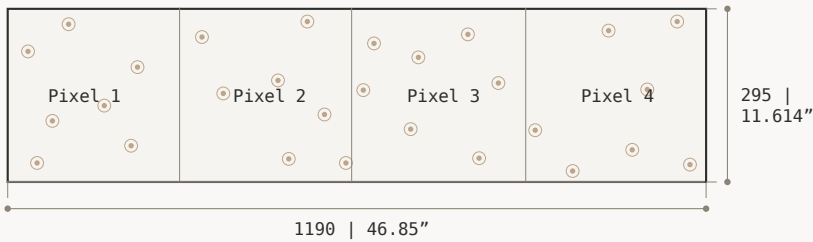
Full Panel – 56 star points | 8 LED pixels | 5W | 8 Pixel mapped



Half Panel (square) – 28 star points | 4 LED pixels | 2.5W | 4 Pixel mapped



Half Panel (wide) – 28 star points | 4 LED pixels | 2.5W | 4 Pixel mapped



PANEL SIZES + STYLE

Straight Edge

Square-cut edges — panels butt flush with no visible gap



Joint detail:



Bevelled Edge

Chamfered top edges — panels meet with a defined V-groove shadow line




Joint detail:



Specifications are subject to change without notice. Fire test results apply to panel substrate only; fibre optics (PVC sleeve) and LED PCB were not included in test assembly. Actual performance may vary depending on installation conditions and room geometry.

PANEL COLOURS

Colour	Availability
 Matte Black	Standard
 Grey	Standard
 Pageant Blue	Standard
 Extended colour range	40 colours - custom orders