

COMET-C

SERIES PRO

Indoor Fine Pitch Micro LED Display



The COMET-C PRO series is the definitive premium solution for mission-critical and high-end visual environments. Featuring the largest panel in the COMET-C family at 609.6x342.9mm, it utilizes an advanced Common Cathode architecture and Flip-Chip COB technology to deliver industry-leading efficiency and “Cold LED” thermal performance. With an unprecedented 22-bit grayscale and native 10-bit HDR support, the PRO series offers breathtaking image depth and color accuracy, making it the ideal choice for elite command centers, broadcast studios, and luxury home cinemas.



FEATURES

- **Next-Gen Architecture:** Common Cathode technology for precise voltage control, reducing heat and power consumption.
- **Elite Image Engine:** Industry-leading 22-bit grayscale and 10-bit HDR for unparalleled detail in shadows and highlights.
- **High-Speed Performance:** Ultra-smooth motion with a 7680 Hz refresh rate and 120 Hz frame rate—perfect for broadcast and fast-action content.
- **Premium Flip-Chip COB:** Wire-free LED design for maximum durability; waterproof, shockproof, and anti-static.
- **Superior Brightness:** Standard 1000 nits with an optional boost to 1200 nits for high-ambient light environments.
- **Micro-Pitch Precision: Available in ultra-fine pixel pitches:** 0.7mm, 0.9mm, and 1.2mm.
- **User-Friendly Maintenance:** Sleek die-cast aluminum panels with full front installation and magnetic service access.

APPLICATIONS

CONTROL ROOM

HOME CINEMA

CORPORATE

HEALTHCARE

Sustainable by Design
Exceptional by Performance

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MODEL	COMET-C 0.6	COMET-C 0.7	COMET-C 0.9	COMET-C 1.2
Product Sub-series	COMET-C PRO			
Product Code	CCP-FP006COBF	CCP-FP007COBF	CCP-FP009COBF	CCP-FP012COBF
Technology	Micro LED - Flip Chip COB			
Pixel pitch	0.635 mm	0.79 mm	0.95 mm	1.27 mm
Pixel density	2,480,005 px/m ²	1,587,203 px/m ²	1,102,224 px/m ²	620,001 px/m ²
Module size	121.92 × 171.45 mm		152.4 × 171.45 mm	
Module resolution	192 × 270 px	192 × 216 px	160 × 180 px	120 × 135 px
Panel size	609.6 × 342.9 × 49 mm		609.6 × 342.9 × 40.5 mm	
Panel resolution	960 × 540 px	768 × 432 px	640 × 360 px	480 × 270 px
Display area	0.209 m ²			
Flatness	≤0.1 mm			
Weight	6.35 kg (±0.1) /panel		4.8 kg (±0.1) /panel	
Housing material	Die-casting aluminum			
Ingress protection	IP65 (front)			
Operation brightness	1000 nits / 1200 nits			
Brightness uniformity	≥98%			
Calibration	Brightness • Chroma			
Calibration Storage	Flash on modules			
Refresh rate	7,680 Hz			
Color temperature	3,000 K ~ 10,000 K			
Color gamut	≥115%			
Color	281 trillion colors			
Viewing angle	Horizontal: 170° • Vertical: 170°			
Static contrast	≥20,000:1			
Dynamic contrast	≥300,000:1			
Gray scale	22 bits			
HDR	Supported			
Frame frequency	50 Hz • 60 Hz • 120 Hz			
Max power consumption	225 W/m ² @1200 nits		≤350 W/m ² @1000 nits	
Avg power consumption	≤75 W/m ²		≤100 W/m ²	
Max heat dissipation	≤780 BTU/Hr/m ²		≤1,195 BTU/Hr/m ²	
Avg heat dissipation	≤258 BTU/Hr/m ²		≤393 BTU/Hr/m ²	
Working voltage	100V ~ 240V • 50~60 Hz			
Operating temperature	-10°C ~ 40°C			
Operating humidity	10% RH ~ 90% RH - no condensation			
LED lifetime	100,000 hours			
Serviceability	Full front service			
Warranty	2 years standard			
Certifications	CB • CE-EMC • CE-LVD • ROHS10 • Blue Light • Photo-Biological Safety			

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