



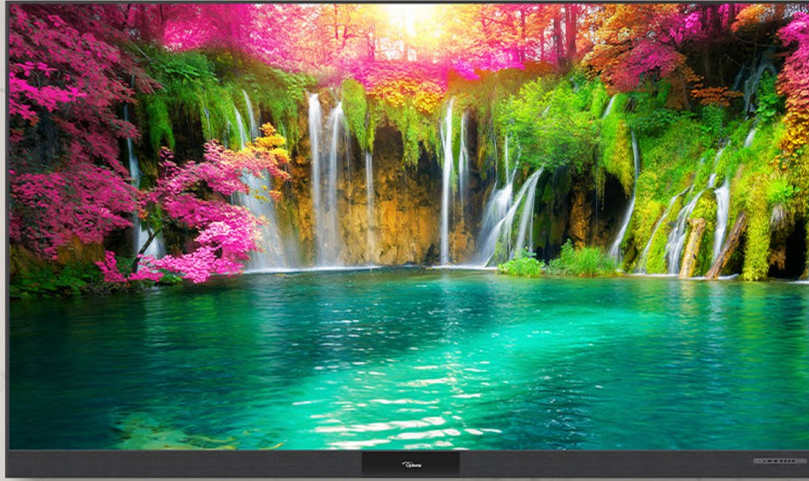
PRO|SCENE

All-In-One (AIO) direct view LED (dvLED)
Flip-chip COB (Chip On Board) displays

Corporate | Enterprise | Education | Hospitality | House of Worship



Smart. Seamless.



The Ultimate All-in-One Display Solution



**Immersive Audio
and Visuals***



**Easy, Intuitive User
Experience**



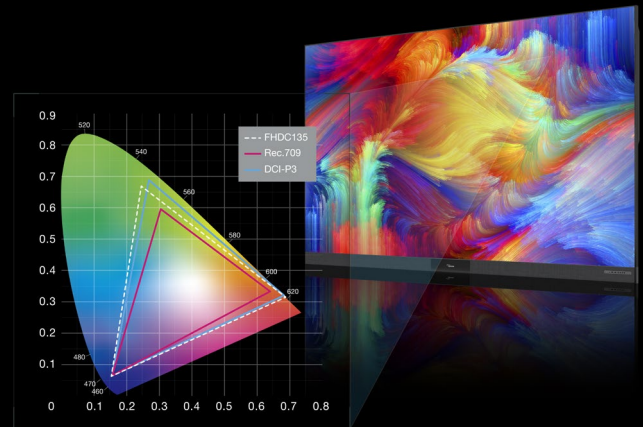
**Next-Gen COB LED
Technology**



**Quick Setup, Flexible
Applications**

FLAWLESS IMAGE PRECISION & A SPECTRUM OF VIBRANT HUES

- **Vivid, lifelike colors with a wider color gamut:** Wide DCI-P3 color gamut delivering rich and vibrant visuals.
- **Bright and smooth matte finish:** Delivers a bright and consistently crisp image, even at wide viewing angles and in bright environments.
- **High contrast ratio and refresh rate:** Enjoy exceptional clarity and depth with a 15,000:1 contrast ratio, while motion stays smooth and free from tearing, flicker, or blur.



DISCOVER THE POWER OF AN ALL-IN-ONE DISPLAY

- **Streamline setup:** Using lightweight and pre-assembled cabinet columns designed for effortless transport and quick installation.
- **Immersive audio:** 120-watt 6 speaker system to ensure everyone in the room hears every word.*
- **Integrated operating system:** Built-in Android OS with File Manager and local storage for quick and easy access.

*FHDC108 includes 60W front speakers (2 x 30W)



Smart, Built-In Control

Powered by Android 13.0, the ProScene AIO dvLED display series feature built-in apps*, Optoma Management Suite Cloud (OMSC®), Display Share, and Wi-Fi** for seamless wireless connectivity and content sharing.



OPTOMA MANAGEMENT SUITE CLOUD (OMSC)

OMSC remotely manages your display fleet from a convenient, centralized location, anytime, anywhere.

- Monitor and diagnose displays and LED modules remotely
- Broadcast alerts and content in real time
- Schedule and manage digital signage



Remote monitoring



Signage



Control & scheduling

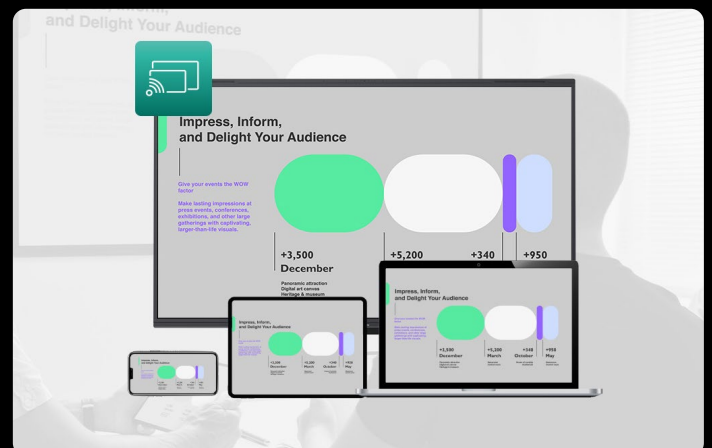


Multimedia broadcast

DISPLAY SHARE: EFFORTLESS WIRELESS SHARING

Display Share is a hassle-free wireless solution for video conferencing, collaboration, and presentations.

- Simultaneous wireless casting up to 4 users
- Display Share supports all devices — Desktop (Windows/Mac) and Mobile (Android/iOS)
- Perfect solution for Wireless presentations / Hybrid working



*Does not support Google Play Store access

**with additional dongle SI07E



COB vs SMD

Chip-on-board (COB) is a **superior technology** and understanding the true benefits of COB technology can help customers achieve a better experience, lower cost of ownership, reduced downtime, and a wider range of suitable applications.

SMD

COB

Robust Design

Water & Dust Resilient
(Tile Surface Only)

Robust Surface

Good Heat Dissipation

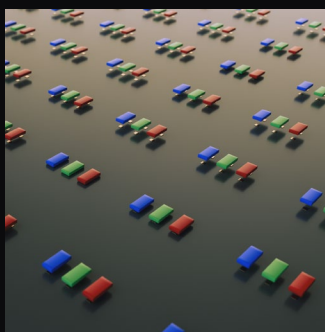
High Brightness
(700nits)

Designed to protect, built to last.

Technology	Pros	Cons
COB Flip Chip	<ul style="list-style-type: none"> - Best image quality (fine pitch) - Highest durability - Easy field repair - Lower ToC - Best black level 	<ul style="list-style-type: none"> - Premium technology, with limited repair options; typically requires full tile replacement
SMD-GOB	<ul style="list-style-type: none"> - Rugged - Moisture & impact protected 	<ul style="list-style-type: none"> - Slight diffused light - Difficult repair in field - Aging technology
SMD	<ul style="list-style-type: none"> - Low cost - Flexible pitches - Field repair 	<ul style="list-style-type: none"> - Exposed LEDs - Less durable - Aging technology

In-Depth Comparison

Category	COB Chip-On-Board (flip chip)	SMD-GOB Glue-On-Board	SMD Surface-Mounted Diode
What is it?	LEDs bonded, sealed to PCB (80% fewer solder joints vs SMD)	Pre-packaged LEDs wire bonded, surface mounted to PCB with epoxy (glue) overlay	Pre-packaged LEDs wire bonded and surface mounted to PCB (unprotected)
Product Maturity	Next Gen	Mature	Late Stage
Visual Quality	Elite (best surface uniformity)	Very strong	Strong
Pixel Density	Best (more mix - allows ultra-fine pitch)	Better (due to epoxy)	Good
Pixel Pitch Range	~0.4mm - 1.8mm	~0.9mm - 2.5mm+	~0.9mm - 2.5mm+
Durability	Very High - fully sealed surface	High - impact and moisture resistant	Moderate
Touch / Contact Resistance	Very High	High	Low
Viewing Angle	Widest - seamless pixel plane	Slightly wider due to surface refraction reduction	Wide
Brightness	High (better in new gen)	High (loss from epoxy)	High
Contrast	Best - ultra-black surface, no gaps	Better - reduced light scatter	Good
Heat Dissipation	Best (chip to substrate)	Good	Good
Maintenance	Field repairable / swappable modules	Field repairable but resin removal difficult	Field repairable / swappable modules
Protection (Water / Dust)	Highest potential for indoor specs	IP-rated potential	Lower (not sealed)



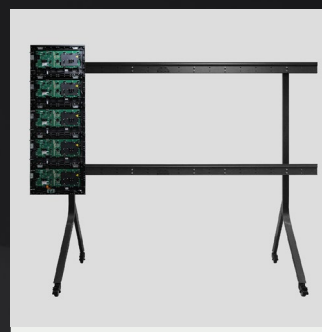
Robust Design

COB technology provides shock, dust, and moisture resistance



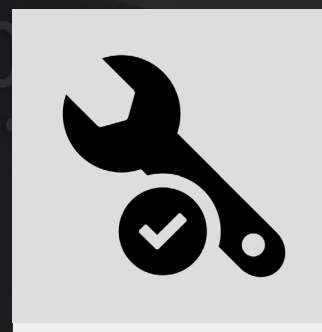
Smart Integration

ProScene integrates with OMS cloud or via existing control systems



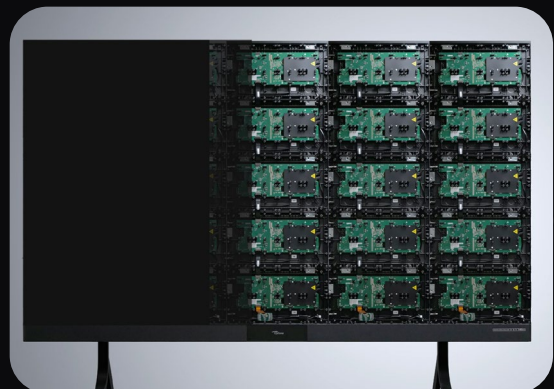
Seamless Install

Pre-calibrated tiles, pre-assembled columns, and 110v* simplify install



Full Support

Up to 5 Year Extended Warranty and support for assembly, install & software

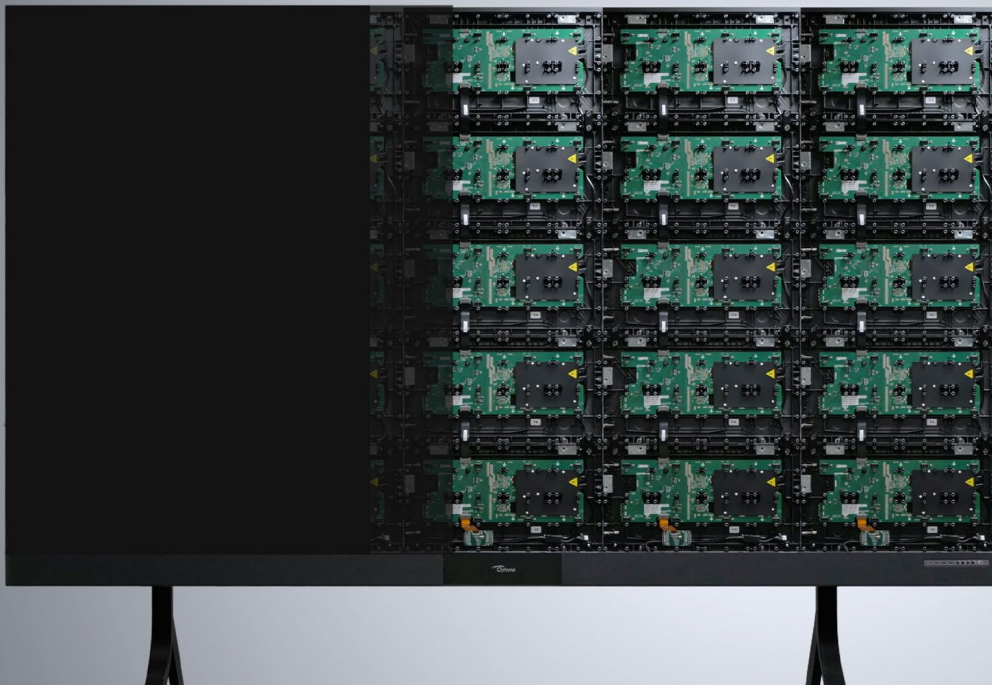


Flip-chip COB Technology provides a **more robust design**, increased brightness, durability, and **pixel perfection**.



Watch How It Works!

*110v power design requires at least a 15A dedicated circuit to power the 108" and 135" AIO dvLED at full brightness. 200V - 240V power required for full brightness with FHDC163 - 500 nits max brightness @110V.



Designed for quick, seamless setup

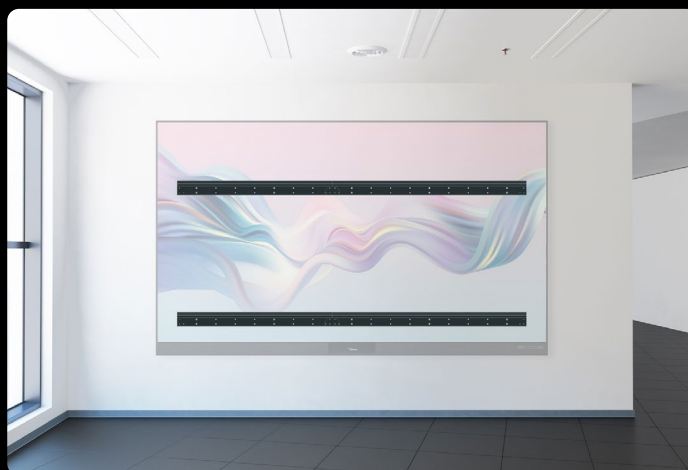
With pre-assembled cabinet columns, installation is faster and easier than ever. The sleek design minimizes setup time, letting you focus on delivering impressive visuals in no time.



Pre-assembled cabinet columns, just 1.2 inches deep.*



Easy front access with hot-swappable tiles, FFC modular connectors, and a magnetic tool for quick, reliable maintenance.



Flexible setup with wall and stand mounting options.**

*1.22" cabinet depth—actual mounted depth varies.

**Optional floor stands are sold separately.

Solutions for Any Space

Optoma ProScene displays come in three versatile sizes—108", 135", 163" for seamless setups. Whether used individually or combined, they adapt perfectly to any space or application.



Designed for Real Spaces



Corporate



Education



Retail



House of Worship

Product specification

	FHDC108	FHDC135	FHDC163	
Product Parameters	Size	108"	135"	163"
	LED type	COB Flip-Chip (Chip on board)		
	Pixel pitch (mm)	P1.25	P1.56	P1.87
	Aspect ratio	16:9		
	Resolution	1920 x 1080		
	Recommend viewing distance	≥ 8.2ft	≥ 10.5ft	≥ 12.5ft
	Maintenance mode	Front access		
	Installation mode	Wall mount, mobile stand		
	ME structure	4 pre-assembled columns	5 pre-assembled columns	6 pre-assembled columns
	LED tiles	128 tiles	200 tiles	288 tiles
	Tile size	5.9" x 6.64"		
Display depth	1.22"			
Optical parameters	Brightness	700 nits	700 nits	700 nits (200~240V), 500 nits (100~110V)
	Refresh rate	3840Hz		
	Viewable screen area	94.49" x 53.15"	118.11" x 66.43"	141.73" x 79.72"
	Gray scale	13-bit (native) 13+6-bit (software enhanced)		
	Contrast	15,000:1		
	Contrast temperature	2300-9300K (Adjustable)		
	Color gamut	DCI-P3: 92.42%, Rec. 709: 99.36%		
	Viewing angle	Horizontal 165°, Vertical 165°		
	LED lifespan	≥100,000hrs		
	System parameters	Operating system	Android 13.0	
CPU		Four Cortex-A76+ four Cortex-A55, frequency 2.4GHz		
RAM		8GB		
Storage		64GB		
Connectivity	IOs Inputs: 3 x HDMI 1.4, 1 x HDMI 2.0 (4K compatible), 1 x USB Type C (5V,1A), 2 x USB 3.0, 1 x Audio In (3.5mm) Outputs: 1 x HDMI, 1 x Audio Out (3.5mm) Ports: 1 x RS232 (RJ45), 1 x USB (service), 1 x LAN (RJ45) (1000M), 1 x RJ45 (service)			
General	Speakers	2 x 30W (front)	2 x 30 W (front); 2 x 15 W (left); 2 x 15 W (right)	2 x 30 W (front); 2 x 15 W (left); 2 x 15 W (right)
	In the box	Remote control, Tile removal tool, Magnetic front plate removal tool, Wall mount bracket, Power cord (3m)*		
	Spare LED tiles	4		
Power	Operation voltage	100-240Vac, 50/60Hz*		
	Standby power	≤0.5W		
	Power consumption (Average)	395W	490W	641W
	Power consumption (Max)	<1190W	<1460W	<2137W
Environmental parameters	Operation temperature	-10°C- 40°C		
	Operation humidity	10%~80%RH No condensation		
	Intended install environment	Indoor only		
	Ingress protection	IP65 (COB surface only)		
Impact protection	IK08 (COB surface only)			
Weight and dimensions	Dimensions (overall size) L x H x D	95.70" x 58.09" x 1.22" (1.4" total mounted depth)	119.29" x 71.36" x 1.22" (2" total mounted depth)	142.91" x 84.65" x 1.22" (2" total mounted depth)
	Shipping (Wooden crate) dimensions L x W x H	Pallet 1 of 2: 62.87" x 40.75" x 36.61" Pallet 2 of 2: 82.83" x 23.46" x 20.04"	Crate 1 of 2: 75.2" x 30.31" x 48.03" Crate 2 of 2: 81.5" x 22.44" x 19.69"	Pallet 1 of 2: 62.4" x 53.94" x 50.79" Pallet 2 of 2: 82.83" x 23.46" x 20.04"
	Weight (shipping)	361.56 lbs. & 134.48 lbs	469.58 lbs. & 143.3 lbs	712.19 lbs. & 156.53 lbs
	Weight (product)	176.37 lbs (without wall mount)	242.5 lbs (without wall mount)	341.7 lbs (without wall mount)
	Warranty	3 Year limited warranty		
UPC	796435 69 116 5	796435 69 091 5	796435 69 114 1	

Accessories HQScene200

Dimensions	14.25" x 17.4" x 1.97" (LxWxH)
Weight	10.36 lbs
CPU	NXP i.MX8M Cortex®-A53, 1.5GHz
RAM	4G LPDDR4-1866Hz
Storage	32G eMMC
Power Supply	100-240 VAC, 50/60Hz Power
Power Consumption (Standby)	<0.5W
Power Consumption (Typ.)	<40W
Operating Conditions	Operating temperature: 0°C to 40°C (ambient 25°C) and 5% to 95% non-condensing humidity
I/Os	HDMI Input: 3 ports (HDMI 2.0) HDMI Loop Out: 1 port (HDMI 2.0) HDMI Output: 2 ports (HDMI 2.0) Display Port Input: 1 port (DP 1.2a) SDI: 3G-SDI IN
Features	Display Share System Control: OMS Screen Division: PIP/PBP 4K scaling Tiling Function (multi-source window display) Genlock Function

*110v power design requires at least a 15A dedicated circuit to power the 108" and 135" AIO dvLED at full brightness.

*200V - 240V power required for full brightness with FHDC163—500 nits max brightness @110V.



Built-in speakers



Heat dissipation



Energy efficient



Powered by Android 13



Front service



Sleek profile



Durable
*COB surface only



Durable
*COB surface only



Find out more about the All-in-One LED solution



Optoma Corporation