

# SHARP®

## EC Series Indoor COB dvLED

LD-EC091 / LD-EC121  
LD-EC151 / LD-EC181



**Advanced Chip-on-Board (COB) Technology for High-Impact Visuals**

**Engineered for Visual Impact. Built for Endurance**

The Sharp EC1 Series redefines professional dvLED by utilizing **Chip-on-Board (COB)** technology. The result is a display platform engineered for environments where durability, efficiency, and visual precision are non-negotiable.

**Efficiency Without Compromise**

The EC1 Series COB architecture can reduce energy usage by **up to 60%** compared to conventional SMD designs, helping organizations hit sustainability targets without sacrificing brightness or image integrity.

**Built for Real-World Environments**

Unlike exposed SMD packages, COB integrates and encapsulates the LEDs directly onto the substrate. This creates a **sealed, durable surface** that is more resistant to:

- Dust and contaminants
- Accidental impact
- Wear in high-traffic environments

The result is a display that maintains performance and appearance over its lifecycle, even in demanding public spaces.

**Superior Visual Performance**

Deliver content with clarity and depth:

- **Up to 10,000:1 contrast ratio**
- **Improved black levels and uniformity**
- **Reduced surface reflections compared to traditional SMD**

**Faster, Smarter Installation**

A redesigned cabinet simplifies deployment:

- **Up to 50% faster installation** compared with previous cabinets
- **Reduced alignment complexity**
- **Cleaner serviceability for integrators**

This translates directly into **lower installation costs.**

**Right Pitch. Right Application**

The EC1 Series offers flexibility across a range of professional use cases:

- **Pixel pitches: 0.9mm, 1.2mm, 1.5mm, 1.8mm**
- Available as **pre-configured FHD and UHD kits** or **custom configurations**

**Optimized for:**

- Corporate environments
- Retail flagship spaces
- Public and high-traffic venues

Specifications

Direct View LED Module		LD-EC091	LD-EC121	LD-EC151	LD-EC181
Display	Panel Technology	Direct View LED			
	Pixel Configuration	Flip Chip COB			
	Panel Resolution	640 x 360	480 x 270	384 x 216	320 x 180
	Aspect Ratio	16:9			
	Pixel Pitch	0.94mm	1.25mm	1.56mm	1.87mm
	Brightness (typical)	600 cd/m <sup>2</sup>			
	Contrast Ratio (typical)	8000:1	10000:1		
	Viewing Angle (typical)	80/80 horizontal / 70/70 vertical			
	Dimming Capability	256 levels			
	Colour Processing	Up to 14 bit			
	Displayable Colours	4.3 Trillion			
	Colour Gamut (cover ratio)	Adobe: 98 DCI: 92			
	Refresh Rate	Up to 3840 Hz			
	Lifetime (typical)	100,000 Hours*			
Connectivity	Input Terminals Digital	1x 1000BaseT RJ-45			
	External Control	RS232 / USB			
Power Consumption (per cabinet)	On (typical)	42W	29 Watts		
	Max	63W	51 Watts		
	Maximum Cabinets (per 120V/20A Circuit)	25	40		
Physical Specifications	Dimensions (WxHxD)	23.6 x 13.3 x 1.1 in / 600 x 337.5 x 27.4mm			
	Diagonal	27"			
	Weight (Net)	9.5lbs / 4.3kg			
Environmental Conditions	Operating Temperature	-4° to 104°F / -20° to 40°C			
	Operating Humidity	10% to 80%			
	Storage Temperature	14° to 113°F / -10° to 45°C			
	Storage Humidity	10% to 85%			
Limited Warranty	IP20				
		3 years			

\*Does not constitute a warranty beyond the three years limited warranty period.



Visit [www.sharp.ca](http://www.sharp.ca) for details.



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