

MCO Outdoor **Facade** Series

Ultra-Lightweight Architectural Transparency.
Superb Outdoor Visual Performance.



Overview

The MCO Outdoor Facade Series is an ultra-lightweight (<21 kg/m²) display for outdoor architectural applications. Offering 35%–70% transparency and up to 10,000 nits brightness, it mounts behind glass without blocking light. Solder-free build and flame-retardant UV materials ensure extreme weather resistance and high energy efficiency.

KEY ADVANTAGES



Versatile Pitch & Custom Mounting

Features 6.25–50mm pixel pitches with support for irregular shapes, custom point sampling, and flexible integration.



Ultra-Lightweight & Weatherproof Design

Weighs <21 kg/m² with IP66 protection, using flame-retardant, anti-corrosion UV materials and solder-free builds.



Energy-Efficient Operation

Low-power drive design reduces average consumption to 120 W/m², significantly lowering 24/7 operating costs.



High-Refresh Broadcast Performance

Low scan rate engineering achieves 3,840–7,680 Hz refresh rates to eliminate flicker and display smooth visual content.



Dual-Service Maintenance

Supports front and rear maintenance alongside DIP, SMT, and SMD LED packaging options for complex installations.



High Brightness & High Transparency

Delivers up to 10,000 nits brightness and 35%–70% transparency to preserve natural light through glass facades.

Technical Specifications

MCO Outdoor Facade Series · 16.67 | 20.0 | 25.0 | 25H/50V | 31.25 mm pixel pitch

	Parameter	MCO 16	MCO 20	MCO 25	MCO 25/50	MCO 31.25
Mechanical Parameters	LED Type	DIP 347				
	Pixel Pitch (mm) - H & V	16.667	20.0	25.0	25H/50V	31.25
	Module Resolution (Pixels)	16 x 16	20 x 10	16 x 8	8 x 8	16 x 8
	Module Display Size (mm)	256 x 256	400 x 200			500 x 250
	Cabinet Size (mm)	1536 x 1536	1600 x 1600			1000 x 1500
	Cabinet Resolutions (Pixels)	96 x 96	80 x 80	64 x 64	64 x 32	32 x 48
	Cabinet Weight (kg)	21	21	20	20	19
	Pixel Density (dot/m2)	3600	2500	1600	800	1024
	Cabinet Thickness (mm)	116.5mm				
	Transparency	35%	40%	45%	70%	50%
	Ingress Protections (IP)	IP 65				
	Maintenance	Rear				
	Brightness (nits) @ 6500K	8500 - 10,000				8000
Optical Parameters	Color Temperature (K)	5500 - 15000 adjustable				
	Viewing Angle (H/V)°	120/100 (DIP 347)				
	Center Point Deviation	< 3%				
	Brightness/Color Uniformity	≥97%				
	Contrast Ratio	7000:1				
Electrical Parameters	Max/Avg Power Consumption	360 (Max), 120 (Average) (W/sqm)				
	Voltage Range	AC100-240V, 50/60 (Hz)				
Processing Performance	Frame Rate (Hz)	50 & 60				
	Drive Mode	Constant Current Drive				
	Gray Scale	14 - 16 bits				
	Refresh Rate (Hz)	3840 - 7680				
	Color Figures	16 bit				
Operating Parameters	Life Time (hrs)	100,000 hrs				
	Operating Temperature /Humidity Range (°C/RH)	-30 - 50/10%-80% (non-condensing)				
	Storage Temperature /Humidity Range (°C/RH)	-30 - 60/10%-85% (non-condensing)				