Aurora Displays Group

Innovation.Always

Aurora Canvas

Fine-pitch LED for galleries, foyers and private collections



1.25 mm
PIXEL PITCH

640k
PIXELS PER M²

45–116"
STANDARD FORMATS

LUX RANGE · FINE-PITCH INDOOR

LDC-960x640-125SMD-L

MADE TO ORDER ON A 320 × 160 MM MODULE

THE DISPLAY

A painting that can change

Aurora Canvas is a 1.25 mm fine-pitch LED surface built to hang inside a conventional frame. The face is a continuous matte resin lamination, so brushwork and impasto keep their relief — and because every pixel makes its own light, that texture is lit from within rather than through a film sitting in front of it.

That is the difference between a painting and a screen showing a painting. The panel is assembled from 320 × 160 mm magnetic modules, so the format follows the room rather than a fixed catalogue size, and any module lifts from the face without taking the frame off the wall.

One frame can hold a rotating collection, carry interpretation for a touring exhibition, or run a commissioned moving work.

GALLERIES · MUSEUMS · HOTEL FOYERS · CORPORATE LOBBIES · PRIVATE COLLECTIONS



SHOWN AT 960 × 640 MM · 768 × 512 PX · 45.4″ DIAGONAL

	AURORA CANVAS	BACKLIT LCD ART FRAME
Surface	Emissive resin face — the light comes from the surface you are looking at.	The image forms behind glass, a polariser stack and an anti-glare film.
Texture	Brushwork and impasto keep their relief and catch the light in the room.	The front film scatters ambient light evenly, flattening the whole face.
Black	An unlit pixel emits nothing at all — night skies stay black.	Black is backlight leaking through a closed shutter, so it lifts to grey.

Made to order

Any format built from the 320 × 160 mm module — portrait, landscape or panoramic.

Seamless joins

Module joint held to 0.3 mm, so the image reads as one continuous face.

3,840 Hz refresh

Flicker-free on camera, so the work photographs as cleanly as it reads.

100,000 hour life

Better than eleven years of continuous display.

SPECIFICATION

Technical data

PHYSICAL PARAMETERS	
Pixel pitch	1.25 mm
Pixel density	640,000 px/m²
LED configuration	1R1G1B · SMD1010
Packaging	POB — package on board
Module size†	320 × 160 mm (256 × 128 px)
Screen size	Made to order
Module joint	≤ 0.3 mm
Panel mass†	24 kg at 960 × 640 mm · 39.06 kg/m²
Module fixing	Magnetic
Cabinet material	Sheet metal structure

APPLICATION PARAMETERS	
Operating temperature	-20 °C to +60 °C
Operating humidity	10 % - 95 %
LED life	≥ 100,000 hours
IP rating	IP31 front / IP43 rear
Maintenance	Front, magnetic module release
Control system	Mooncell · Kystar · NovaStar · Colorlight

OPTOELECTRONIC PARAMETERS	
Refresh rate	≥ 3,840 Hz
Greyscale	≥ 14-bit
Average power	< 220 W/m²
Peak power	< 600 W/m²
Module voltage	DC 4.2-5 V
Input voltage†	AC 110-240 V
Scan mode	1/64 scan
Brightness	≥ 600 nits
Brightness control	Automatic, 0-100 levels
Colour temperature	5,500-9,300 K
Optimal viewing distance	1 m - 30 m
Viewing angle	140° horizontal / 140° vertical

† AURORA DERIVATION

The factory drew a 960 × 640 mm face as a 3 × 4 grid and weighed it at 24 kg. Module size, resolution and per-m² mass follow from that. The derived pixel count reproduces the factory's own stated density of 640,000 px/m² exactly at every size on the following page.

ELECTRICAL SUPPLY

Panels ship with a wide-range supply and are built to the nominal voltage of the destination market — 240 V for Australia and New Zealand, 230 V across the EU and UK, 120 V for North America. Market compliance marking is fitted to the same order: RCM under the AS/NZS schemes for Australian delivery, CE for Europe.

SIZES & ENGINEERING

Formats and supply

Every format below is a whole number of 320 × 160 mm modules. Other sizes are made to order on the same grid. Mass, power and processor are calculated by Aurora from the factory's own figures — they are not on the supplier sheet.

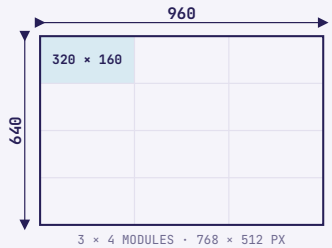
SIZE (MM)	DIAGONAL	MODULES	RESOLUTION	PIXELS	RATIO	MASS	KW AVG / PEAK	A AVG / PEAK	PLAYER · COLORLIGHT / NOVASTAR
960 × 640	45.4″	3 × 4	768 × 512	393,216	3:2	24.0 kg	0.14 / 0.37	0.6 / 1.6	**A100 / TB30**
1280 × 800	59.4″	4 × 5	1024 × 640	655,360	8:5	40.0 kg	0.23 / 0.61	1.0 / 2.7	**A100 / TB40**
1600 × 960	73.5″	5 × 6	1280 × 768	983,040	5:3	60.0 kg	0.34 / 0.92	1.5 / 4.0	**A100 / TB40**
1920 × 1280	90.8″	6 × 8	1536 × 1024	1,572,864	3:2	96.0 kg	0.54 / 1.47	2.4 / 6.4	**A200 / TB50**
2560 × 1440	115.6″	8 × 9	2048 × 1152	2,359,296	16:9	144.0 kg	0.81 / 2.21	3.5 / 9.6	**A500 / 2 × TB50 §**

ELECTRICAL SUPPLY

Current is calculated at 230 V. Every format to 1600 × 960 mm sits inside a single 10 A outlet at peak. At 2560 × 1440 mm the peak draw of 9.6 A leaves no practical headroom on a shared circuit — specify a dedicated circuit sized to peak, not to average.

PLAYER SIZING

A framed panel takes an all-in-one cloud player rather than a rack processor — Colorlight A-series or NovaStar Taurus, sized against published single-unit loading limits with at least 15 % headroom. Both give scheduled playback, remote content management and auto-brightness from one box behind the frame. **§** At 2560 × 1440 mm the pixel budget passes the 2.3 million single-player ceiling, so that format takes a larger controller or a second player.



MODULE GEOMETRY

SPECIFYING AND INSTALLING

Frame & depth	Sits in a conventional moulding. Allow rear clearance for the receiving card and power run.
Supply	Dedicated circuit above 1600 × 960 mm, sized to peak rather than average draw.
Content	Network feed or local player. The player sits behind the frame or remote in a rack.
Service	Front magnetic module release — no rear access needed once hung.

Australian supply is arranged on landing: RCM marking, electrical compliance and commissioning are quoted with the order.