ID6025

Indoor LED display • Pixel geometry and optical performance



01 / PIXEL & CABINET

Pixel structure	1R1G1B
LED type	SMD1415 black face
Pixel pitch	P2.5 / 2.5 mm
Scan mode	1/16 scan
Module dimensions	320 × 160 mm
Module resolution	128 × 64 pixels
Module layout	3 across × 6 high (18 modules)
Cabinet dimensions	960 × 960 mm
Cabinet resolution	384 × 384 pixels
Pixel density	160,000 pixels/m²
Cabinet area	0.9216 m²
Cabinet weight	28.0 ± 0.05 kg

02 / OPTICAL PERFORMANCE

White-balance brightness	6,000 cd/m²
Refresh rate	3,840 Hz
Frame rate	50/60 Hz
Colour temperature	3,000–30,000 K, adjustable
Horizontal viewing angle	160°
Vertical viewing angle	140°
Contrast ratio	10,000:1
LED luminance deviation	<3%
Colour uniformity	Within ±0.003 Cx,Cy

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Protection, electrical and control systems

03 / ENVIRONMENT & ELECTRICAL

Protection rating	IP65
Cabinet construction	Iron cabinet
Cooling	Fanless / natural convection
Service access	Front and rear
Peak power density	456–635 W/m²
Average power density	114–159 W/m²
Cabinet peak power	420–585 W/cabinet
Cabinet AC supply	AC 100–240 / 200–240 V
Module DC supply	4.2 V + 3.2 V dual voltage
Lifespan	100,000 h
Operating temperature	−30 to +50 °C
Storage temperature	−40 to +60 °C
Operating humidity	10–90% RH, non-condensing
Storage humidity	10–80% RH, non-condensing

04 / SYSTEM & SPARES

Sending box	NovaStar TB40; synchronous computer control
Receiving card	NovaStar MRV208
Spare power supply	5 V / 60 A / 300 W
Spare LED module	P2.5, 320 × 160 mm
Spare receiving card	NovaStar MRV208

Controller and spare items depend on the order configuration.

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System configuration

05 / 960 × 960 MM CABINET



3 × 6 modules / cabinet
18 modules • 128 × 64 pixels per module

384 × 384
PIXELS / CABINET

960 × 960
CABINET SIZE (MM)

0.9216 m²
CABINET AREA

06 / FOUR-CABINET WALL EXAMPLE

Two cabinets wide × two high gives a 1.92 × 1.92 m display with an area of 3.6864 m² and a native canvas of 768 × 768 pixels (589,824 pixels). Larger or different video-wall sizes are configured to suit each space.