




Qlite

**VOLGA
microLED**

The best microLED display ever

Experience micro LED displays like never before. True-to-life imagery requires a flawless integration of highly illuminated and dark areas. However, without meticulous backlight control, undesired blooming may occur. That is why we have integrated advanced Chip on Board technology, along with intelligent image processing, to significantly minimize blooming and present the most breathtaking and seamless visuals imaginable.



VOLGA microLED

**microLED at its
most brilliant.**



VOLGA microLED brings refined specular highlights, incredible detail in shadows, and vibrant, true-to-life colours. Each display is calibrated in the factory and features pro reference modes for HDR colour grading.

ClearView

for cinematic viewing

StudioMotion

adaptive 3840Hz refresh rate

Rec.2020

ultrawide colour gamut



See how VOLGA microLED stack up compared to Flip Chip SMD and SMD.

Visible light spectrum / Contrast / Energy consumption



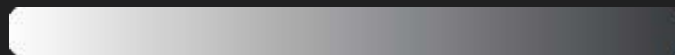
75%

RGBs VOLGA microLED with Rec.2020*



45%

RGBs Flip Chip SMD (Black Body) with P3**



Typical SMD with sRGB/Rec.709***

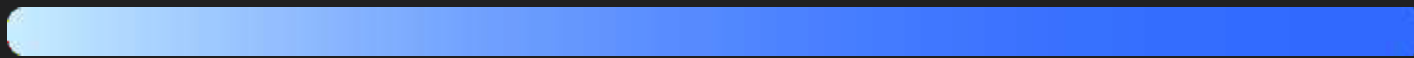
See how VOLGA microLED stack up compared to Flip Chip SMD and SMD.

Visible light spectrum / Contrast / Energy consumption



1.4x

RGBs VOLGA microLED - 10,000 : 1 *



1.4x

RGBs Flip Chip SMD (Black Body) - 10,000 : 1 **



Typical SMD - 6,000 : 1 ***

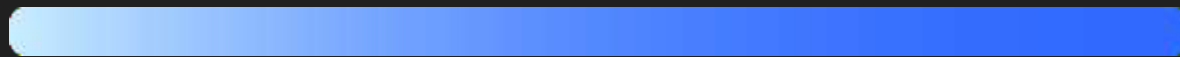
See how VOLGA microLED stack up compared to Flip Chip SMD and SMD.

Visible light spectrum / Contrast / Energy consumption



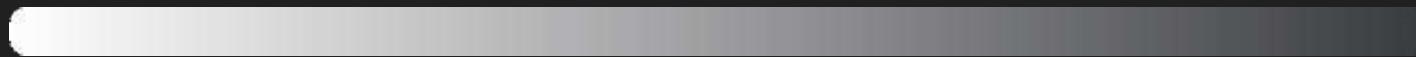
-17%

RGBs VOLGA microLED P1.2mm - max 270 W/m² *



-17%

RGBs Flip Chip SMD (Black Body) P1.2mm - max 270 W/m² **



Typical SMD P1.2mm - max 430 W/m² ***

16

bit depth

1000

nits peak brightness

7680

Hz refresh rate

10,000:1

contrast ratio

640,000

pixels/m²*

*Claim refers to 600mm x 337.5mm x 39mm cabinet in P1.2mm

LED Binning

The next generation of versatility.

More advanced calibration architecture enables stunning colour clarity. With an in-house microLED manufacturing process that boasts enhanced individual LED colour matching and individual module calibration, the colour accuracy of VOLGA microLED has never been so precise. The result is a stunning gain in colour clarity that unlocks unparalleled versatility, empowering you to expand your screen real estate like never before.*



Edge-to-Edge

An infinity pool of pixels.

Enter a realm where black is more than just a colour - it's a canvas for pure visual excellence.

With every VOLGA microLED module enveloped in a sumptuous, matte black coating, we've crafted a display that's as seamless as it is stunning. Every detail of your content is rendered with breathtaking depth and contrast, without any distracting white edges to detract from the immersive experience.



Conventional microLED



VOLGA microLED

Deep Black.

And made to stay that way.

RGBs is dedicated to unleashing the full potential of visual excellence -and we do it by tapping into our expertise in specialized LED manufacturing and creating an ultra-rich, matte black coating. By fusing these technologies together, we've birthed a display that delivers consistent black levels so deep they will take your breath away.

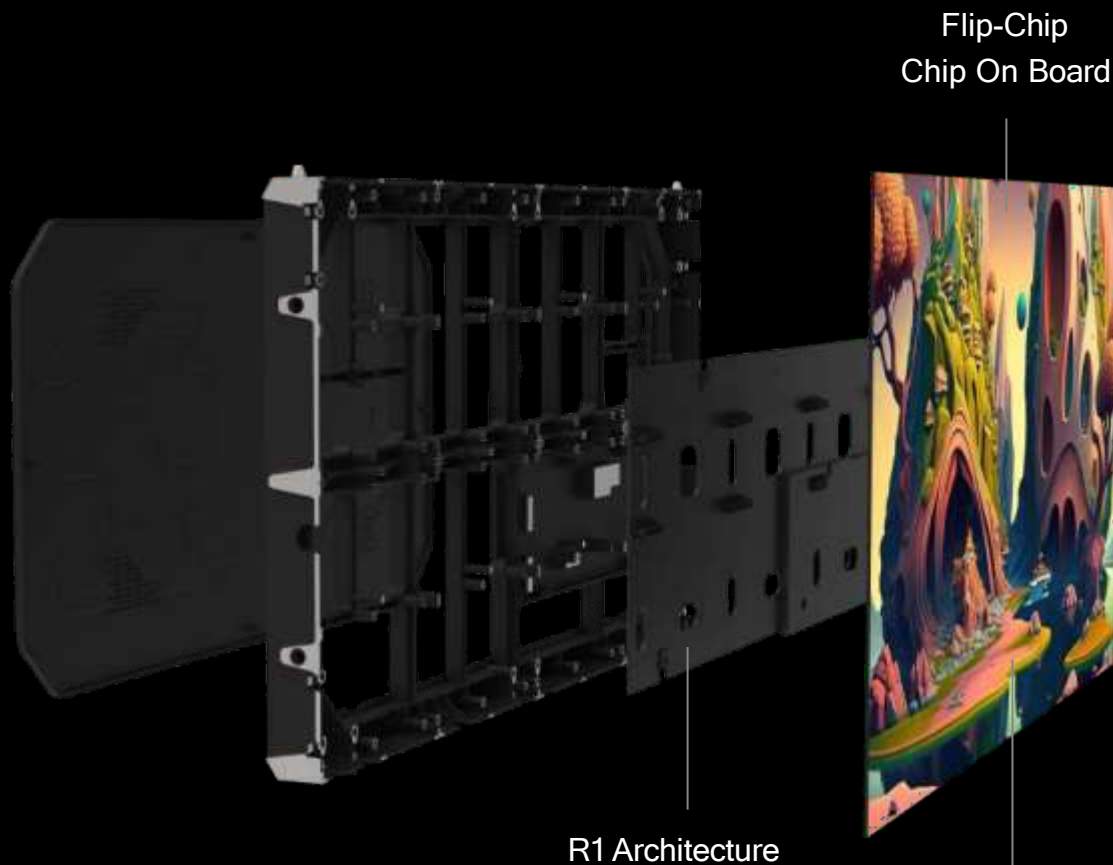


Conventional microLED



VOLGA microLED

Innovation in every layer.



R1 Architecture. Seamlessly integrating the Novastar Armor series receiver card with our hub card and power supply, we have achieved an unprecedented level of performance and serviceability that pushes the boundaries of what's possible in the world of LED displays.

Up to

17%

more energy efficient
than typical SMD

Up to

30%

less surface heat
than typical SMD

Less glare. And even less glare.

At RGBs, we've engineered every VOLGA microLED with one thing in mind: the pursuit of image perfection. Our relentless attention to detail has led us to develop an anti-reflective coating that operates on the nanometer level, scattering light and minimising glare to an unprecedented degree. Unlike traditional matte LED coatings that produce unwanted haze and lower contrast, our proprietary technology maintains perfect contrast while preserving the clarity and beauty of the image on the screen.



VOLGA microLED and Novastar. Dream team.

VOLGA microLED and the Armor series from Novastar have been crafted in tandem, with every detail meticulously designed to provide you with an immersive experience like no other. The automatic module calibration, precise grayscale adjustments, HDR10 with HLG capabilities, and minimal frame latency all work together seamlessly to transport you into a world of unparalleled visual immersion.



SPECIFICATIONS

	Qlite - VOLGA microLED	QG-ALED-IDP 1.5			
Physical Parameters	Pixel Pitch (mm)	0.9	1.2	1.5	1.8
	Cabinet Size (W x H x D) mm	600 x 337.5 x 39	600 x 337.5 x 39	600 x 337.5 x 39	600 x 337.5 x 39
	Cabinet Weight (kg)	5.2	5.2	5.2	5.2
Optical Parameters	Cabinet Resolution (L x W) pixels	640 x 360	480 x 270	384 x 216	320 x 180
	Aspect Ratio	16:9	16:9	16:9	16:9
	Brightness (nits = cd/m ²)	≤700	≤1000	≤1000	≤1000
	Refresh Rate (Hz)	≤7,680	≤7,680	≤7,689	≤7,680
	Color Temperature (K)	2,500 ~ 10,000	2,500 ~ 10,000	2,500 ~ 10,000	2,500 ~ 10,000
	Power Consumption Max (W/m ²)	≤400	≤360	≤350	≤340
	Power Consumption Typical (W/m ²)	≤134	≤125	≤117	≤110
Working Voltage	AC: 100 V~240V, 50~60 Hz	AC: 100 V~240V, 50~60 Hz	AC: 100 V~240V, 50~60 Hz	AC: 100 V~240V, 50~60 Hz	
Additional Features	Lifetime	100,000	100,000	100,000	100,000
	Operating Temp (°C)	-20 ~ +60	-20 ~ +60	-20 ~ +60	-20 ~ +60
	Humidity Range (%)	10 ~ 90	10 ~ 90	10 ~ 90	10 ~ 90



QLITE Electronics Controls Pvt. Ltd.

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United
Kingdom

Belgium

Bahrain

Qatar

Dubai

Bengaluru
(India)

Gurugram
(India)