

GAMING DISPLAY SPECIALIST

Better by Design!



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About FANTALOOKS?

FANTALOOKS is a high-quality gaming display manufacturer in South Korea.



01

We're specialized in custom products such as curved and cutting displays.

02

Not only customized products, but also we have our own standard displays of various sizes which are ready to be offered.

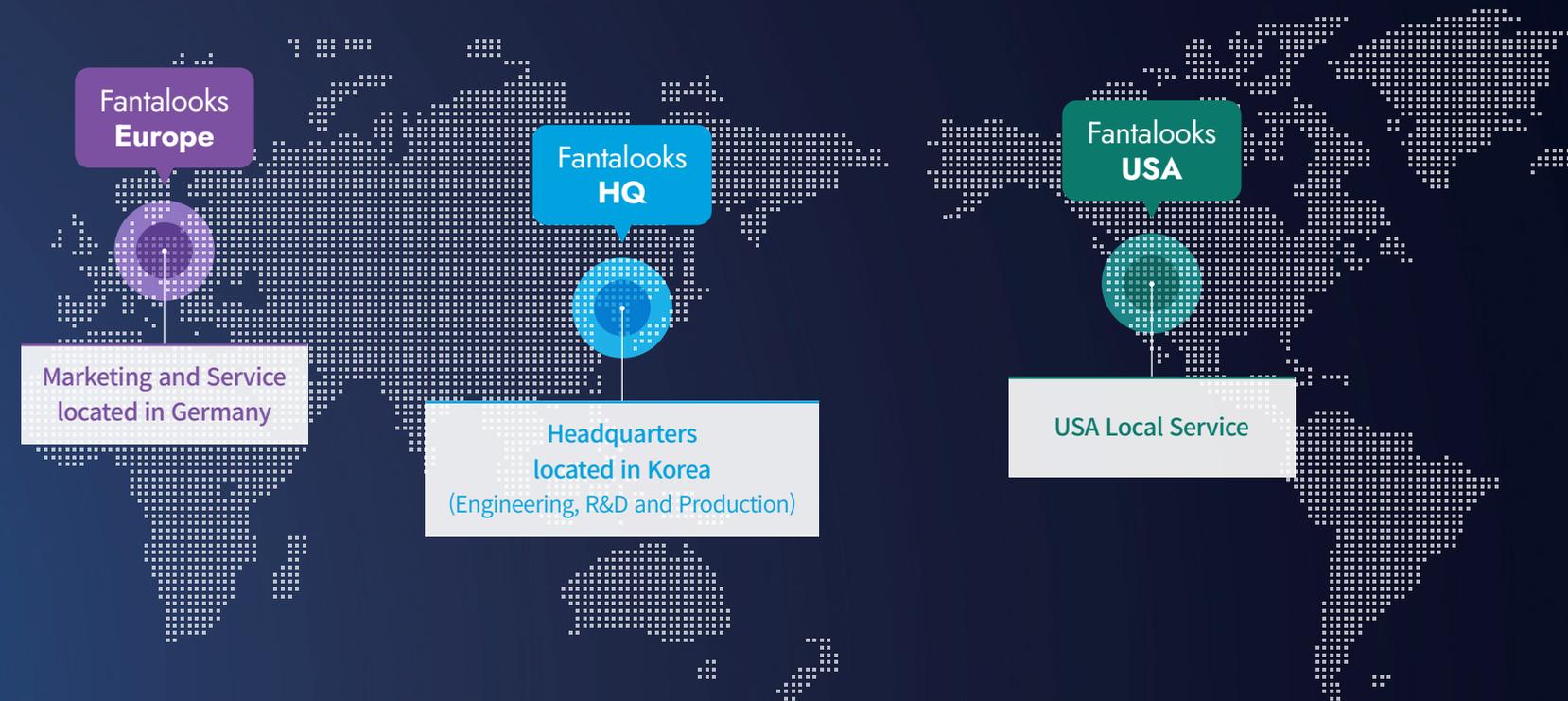
03

Engineering development and support is done in-house such as BLU, Touch and Mechanical design.

04

We supply gaming displays to all over the world including the United States and Europe.

Global Network



2013

Established Fantalooks Co., Ltd. in Korea

2014

Successfully developed the world's first PCAP touch gaming displays.

2017

Launched 43inch Curved displays.

2019

Launched 55inch Curved displays.

HISTORY

Curved

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Square Display

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Unique Shape

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Button deck (Resized / Stretched)

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OLED

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Large Size (Flat)

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Medium Size (Flat)

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*Other Size is available upon customer's request.

Available Technologies (Optional)



WCG 90~92%



High Brightness 700nit



Min 80%



Automatic Brightness Control



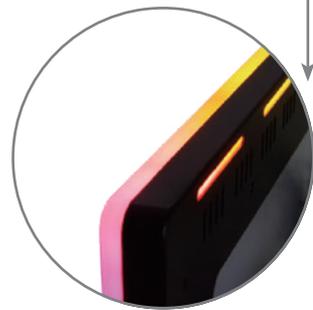
LED Deco lighting

Standard Displays

Fantaloooks proudly presents a standard line-up with a range from large curved displays to medium-sized flat displays. The slim and fancy 4-side LED lighting design makes your cabinet stand out and draws the attention of players.



43" J / 49" J



27" / 32"



43" / 49"

Product Line Up

Size	Resolution	Radius	White Luminance	Touch	Input	LED Type
43" J	3840 x 2160	1500R	550 cd/m ²	PCAP	DP, DVI, HDMI	Panoramic LED
49" J	3840 x 2160	1500R	550 cd/m ²	PCAP	DP, DVI, HDMI	Panoramic LED
27"	1920 x 1080	-	300 cd/m ²	PCAP	DP, DVI	Panoramic LED
32"	1920 x 1080	-	400 cd/m ²	PCAP	DP, DVI	Panoramic LED
43"	3840 x 2160	-	500 cd/m ²	PCAP	DP, DVI, HDMI	Panoramic LED
49"	3840 x 2160	-	500 cd/m ²	PCAP	DP, DVI, HDMI	Panoramic LED

*Optional: Open Frame, Closed Frame

Available Technologies (Optional)



WCG 90~92%



High Brightness 700nit



Min 80%



Automatic Brightness Control



LED Deco lighting

Curved Display

 Recommended for **Main Display**



J Type



C Type



W Dual Side (OLED)



Q Type



Omega Type

Product Line Up

*WCG 92% is optional.

Size	Type	Resolution	Radius	Brightness	Touch Panel	Color Gamut (NTSC)
43"	C	UHD	1500R	550cd/m ²	PCAP 5T Glass	72%/92%
43"	J	UHD	1500R	550cd/m ²	PCAP 5T Glass	72%/92%
49"	C	UHD	1500R	550cd/m ²	PCAP 5T Glass	72%/92%
49"	J	UHD	1500R	550cd/m ²	PCAP 5T Glass	72%/92%
55"	C	UHD	1500R	550cd/m ²	PCAP 5T Glass	72%/92%
55"	J	UHD	1500R	550cd/m ²	PCAP 5T Glass	72%/92%
55"	Q	UHD	1000R/1500R	550cd/m ²	-	72%/92%
55"	Omega	UHD	600R	550cd/m ²	-	72%/92%
55"	W (Double Sides)	FHD(OLED)	1000R	400cd/m ²	-	98%

*Higher brightness is optional.

Available Technologies (Optional)



WCG 90~92%



High Brightness 700nit



Min 80%



Automatic Brightness Control



LED Deco lighting

Square Display

Recommended for
Main, Topper, Signage



35.7" C



35.7" Flat



29.5" Flat

*WCG 92% is optional.

Product Line Up

Size	Type	Resolution	Radius	Brightness	Touch Panel	Color Gamut (NTSC)
27.6" (43" 1/2cut)	Flat	1900x2160	-	500cd/m ²	PCAP 5T Glass	72%/92%
27.6" (43" 1/2cut)	C	1900x2160	1500R	700cd/m ²	PCAP 5T Glass	72%/92%
35.7" (55" 1/2cut)	Flat	1900x2160	-	500cd/m ²	PCAP 5T Glass	72%/92%
35.7" (55" 1/2cut)	C	1900x2160	1500R	700cd/m ²	PCAP 5T Glass	72%/92%
42.2" (65" 1/2cut)	Flat	1900x2160	-	500cd/m ²	PCAP 5T Glass	72%/92%
42.2" (65" 1/2cut)	C	1900x2160	1500R	700cd/m ²	PCAP 5T Glass	72%/92%
29.5" (43" 1/2cut)	Flat	2160x2160	-	400cd/m ²	PCAP 5T Glass	80%

*LED Lighting is optional

Available Technologies (Optional)



WCG 90-92%



High Brightness 700nit



Min 80%



Automatic Brightness Control



LED Deco lighting

Unique Design Display



23.8" Bartop



23.6" Round

"Eye-Catching Design"

The beautiful curved surface bar top design is comfortable to look at.

Product Line Up

*WCG 92% is optional.

Size	Type	Resolution	Radius	Brightness	Touch Panel	Color Gamut (NTSC)
23.8"	C	FHD	500R	500cd/m ²	PCAP 3T Glass	72%/92%

* Other Size (27") and Radius are also available upon customer's request.

"Most suitable for Topper"

The Real Round LCD Display has a thin bezel. It has no dead area that is just hidden by the mechanical part on a square type LCD.

Product Line Up

Size	Type	Resolution	Brightness	Touch Panel	Color Gamut (NTSC)
23.6"	Round	1280x1280	1,500cd/m ²	-	72%

Button Deck Display

 Recommended for **player interaction and interface**



Product Line Up

*WCG 92% is optional.

Size	Type	Resolution	Brightness	Touch Panel	Color Gamut (NTSC)
10.1"	Flat	1280x800	350cd/m ²	PCAP 5T Glass	72%
13.3"	Flat	1920x1080	400cd/m ²	PCAP 3T Glass	72%
15.6"	Flat	1920x1080	500cd/m ²	PCAP 3T Glass	72%
16.4" (18.5" 1/3cut)	Flat	1366x238	320cd/m ²	PCAP 3T Glass	72%/92%
15.5" (19" 2/5cut)	Flat	1280x390	500cd/m ²	PCAP 3T Glass	72%/92%
21.1" (23.8" 1/3cut)	Flat	1920x360	700cd/m ²	PCAP 3T Glass	72%/92%
23.8"	C	1920x1080	500cd/m ²	PCAP 3T Glass	72%/92%

*Other shape and size are available upon customer's request.

Available Technologies (Optional)



WCG 90~92%



High Brightness 700nit



Min 80%



Automatic Brightness Control



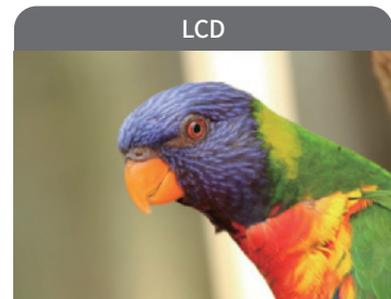
LED Deco lighting

• OLED Displays

OLED offers

- Wider and vivid Color reproduction
- High Contrast Ratio and Deep Black
- Thin and Easy to shape the curve
- Practical Life Time of 30,000hr

Item	LCD	OLED
Color Gamut (NTSC)	72%	98.5%
Contrast Ratio	1,000 : 1	150,000 : 1
Life time	30~50k hours	30k hours
Response time (G to G)	12ms	0.1ms
Investment for Curving	High Cost Tooling for BLU	Not Necessary
Design	BLU thickness needs	Very Thin design



OLED Line Up for Gaming Market

Size	Resolution	Brightness
30"	1366 x 768	600 cd/m ²
42"	3840 x 2160	500 cd/m ²
48"	3840 x 2160	450 cd/m ²
55"	1920 x 1080	400 cd/m ²

OLED for Gaming Market

- By implementing several algorithms and Off-RS 1hr, OLED can be used for slot gaming applications without having image retention

Algorithms for preventing image retention



Local Brightness control with detecting static image area

Segmentizing the areas and individual brightness control



Local brightness control by image stress analysis

Flat Display

 Recommended for **Top, Main, Topper**



Product Line Up

Size	Type	Resolution	Brightness	Touch Panel
21.5"	Flat	FHD	250cd/m ²	PCAP 3T Glass
23"	Flat	FHD	250cd/m ²	PCAP 3T Glass
23.8"	Flat	FHD	250cd/m ²	PCAP 3T Glass
27"	Flat	FHD	300cd/m ²	PCAP 3T Glass
32"	Flat	FHD/UHD	400cd/m ²	PCAP 3T Glass
42"	Flat	FHD	400cd/m ²	PCAP 3T Glass
43"	Flat	UHD	500cd/m ²	PCAP 5T Glass
49"	Flat	UHD	500cd/m ²	PCAP 5T Glass
55"	Flat	UHD	500cd/m ²	PCAP 5T Glass

*Other Size is available upon customer's request.

*LED Lighting is optional

Available Technologies (Optional)



WCG 90~92%



High Brightness 700nit



Min 80%



Automatic Brightness Control



LED Deco lighting



LED Lighting

LED lighting technology can be applied to the inside or outside of the display. Fantaloooks offers a variety of customized solutions.

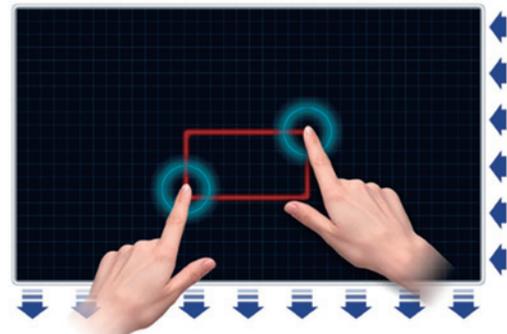
LED Type		Diffuser Material	
			
RGB	Panoramic LED Strip	Plastic	Glass Painting

- LED lighting on 4 edges of the display is an eye-catching element with impact.
- Both RGB and Panoramic color control are available.
- Fantaloooks gentle-curved plastic housing enables direct mounting to the cabinet.



PCAP Touch (Projected Capacitive Touch)

A method of sequentially measuring capacitance formed at intersections between axes by arranging electrodes in both horizontal and vertical axes and detecting capacitance variations at specific points.

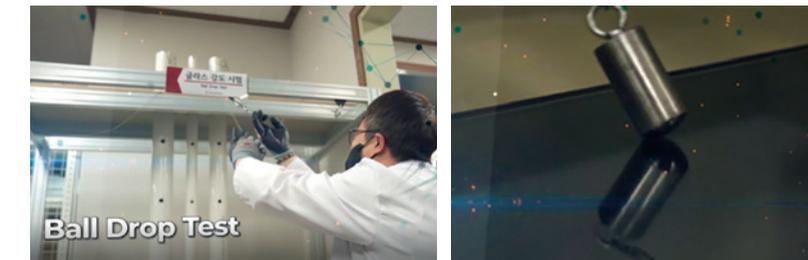


- Available glass type: Clear, AG, AR

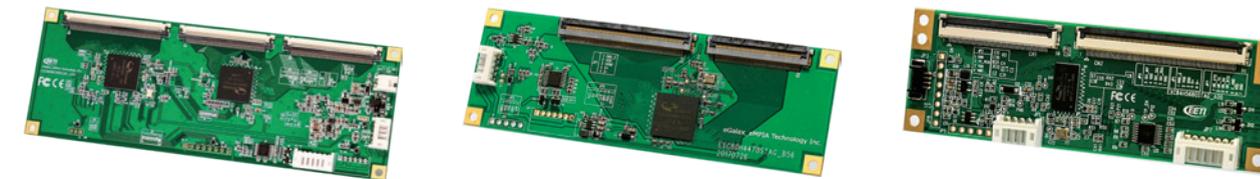
Fantaloooks

- Develops touch sensor and glass with core technologies in-house.
- Uses universal controller that provides customers with the design flexibility to work with a variety of touch technologies.

Ball Drop Test



Touch Controller



BLU/LCM Total Solution

BLU is key element for the customized LCD.

LCM

BLU



Mechanical / Optical Design

- In-House design
- BLU 3D and Optical design



In-House Assembly

- In-House assembly

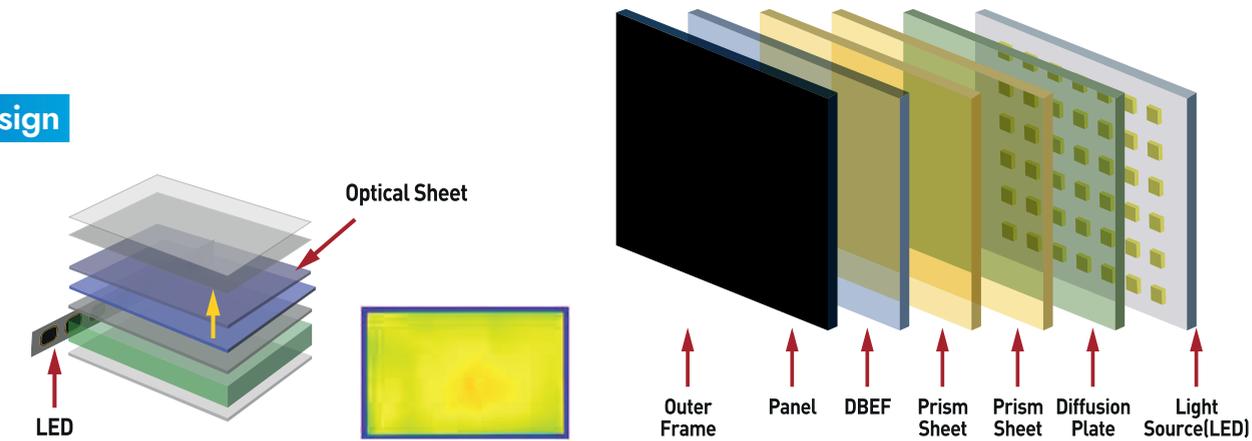


High Brightness

- In-House sourcing
- Brightness simulation tool
- LED rank and optical sheet optimization

Fantaloooks develops and produces various types of **BLU/LCM in-house**, with a strictly controlled clean room environment.

Fantaloooks develops **Mechanical & Optical design** in-house.



BLU/LCM assembly lines (Clean room)



WCG : Wide Color Gamut

The new LED chip and optical sheet can be combined to widen the NTSC color gamut. High-color reproduction technology enables more realistic gaming experiences for players and Fantalooks offers a range of wide color gamut options.

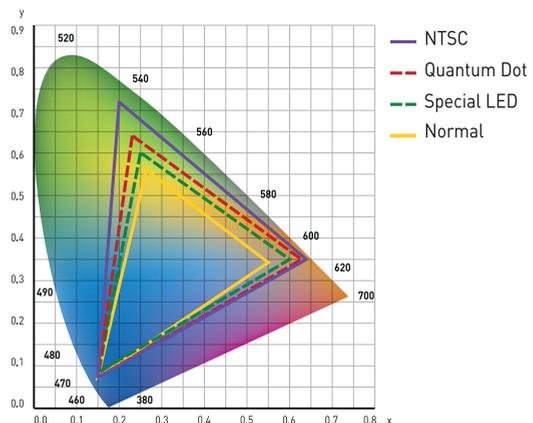


Normal CG : 72%



Wide CG : >90%

Color Gamut CIE 1931



High Brightness

Using a high-brightness display that Stand out on Casino floors on Public facilities offers viewers with a more satisfying experience. Fantalooks specializes in designing high-brightness displays.



Normal : Typ. 250~350 nits



Fantalooks : Typ. 500 nits

DAB : Digital Auto Bias

Digital Auto Bias technology can maintain the luminance of the display in its original state. Most Casino slot machines today have a minimum of 3-4 monitors in one machine. When DAB technology is applied to the display, it provides the player with the most consistent imagery between displays. It can also extend the display's life by maintaining its luminance.

Conventional



250 nits



200 nits

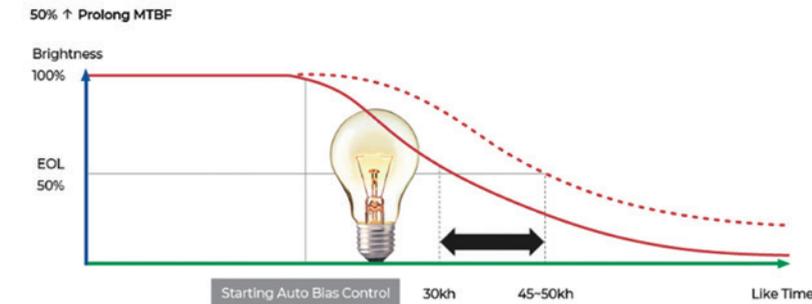
Fantalooks



250 nits

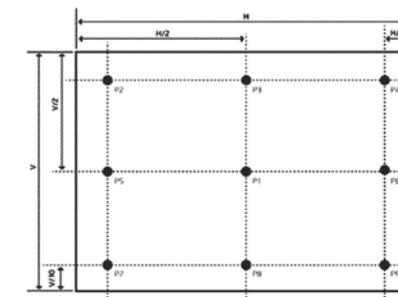


250 nits



Uniformity

Uniformity provides clean, crisp screen images that are critical in Casino gaming and public applications. Fantalooks offers the highest uniformity displays providing customers with the best viewing experience.



► Measure 9 points to test uniformity

Normal : Min 65%~72%

Fantalooks : Min 80%