

VP/xR FOR FILM-MAKING

How does it work exactly?

-INFILED

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PART ONE

Overview of VP/xR

Development Background



The current international situation has aminated video production development.

The LED digital screen display is further applied to more specific scenarios.

The breakthrough of VP/xR technical and major technical leaps in the hardware of LED has resulted in a revolutionary applications.

What is xR?

xR

(Extended Reality)

xR refers to all real-and-virtual environments generated by equipment and software.

The 'x' in xR is simply a variable that can stand for any letter. xR is an umbrella term encompassing **AR**, **VR**, **MR**.

VR
(Virtual Reality)



A perfect immersive 100% virtual world created by sensor input.

AR
(Augmented Reality)



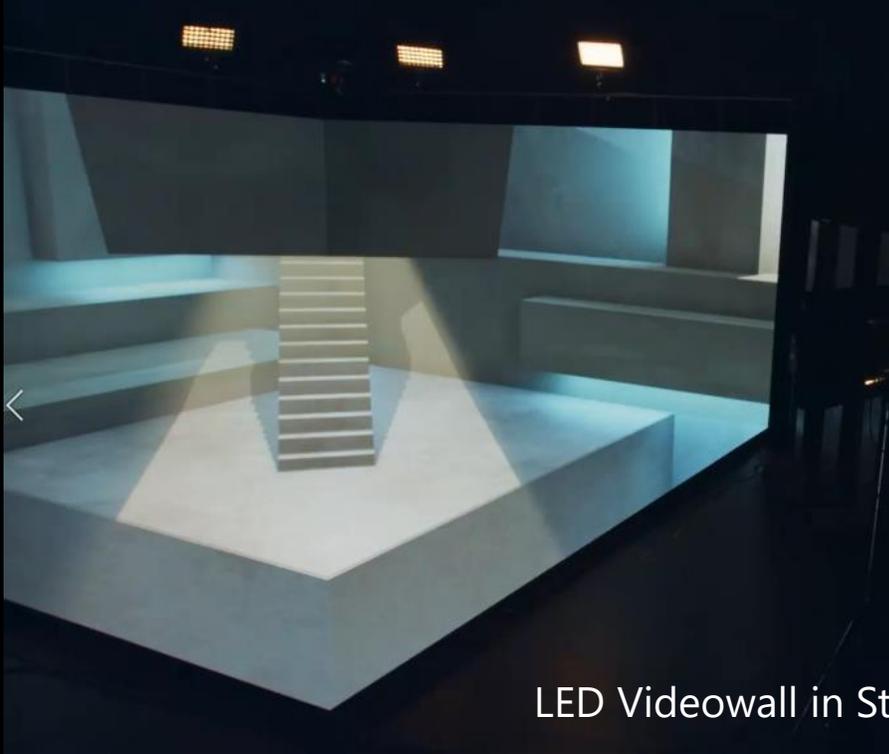
The virtual image is superimposed on the real world.

MR
(Mixed Reality)



A new visual environment created by the fusion of real and virtual worlds

A New Era of Filmmaking



LED Videowall in Studio



Create Virtual Sets

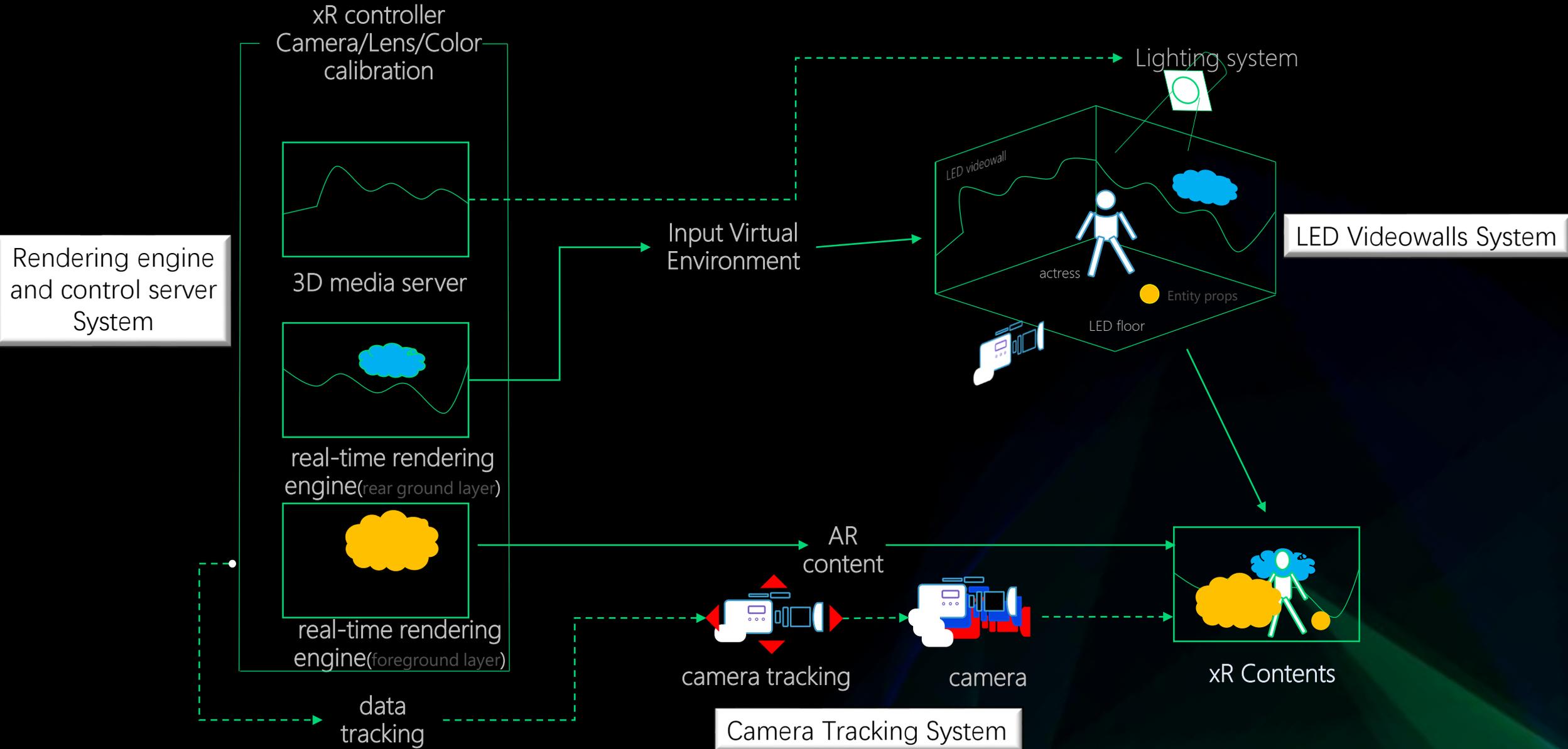
Virtual Production (VP) is an area of digital cinema workflow of filming in-front of a large LED screen, which replace traditional green-screens and can be filled with xR virtual backgrounds , that allows for the creation of real-time, reactive backgrounds that perfectly syncs with the camera for a seamless , all-round and fully immersive highly detailed and textured replica 3D environment.

VP/xR Shooting Applications

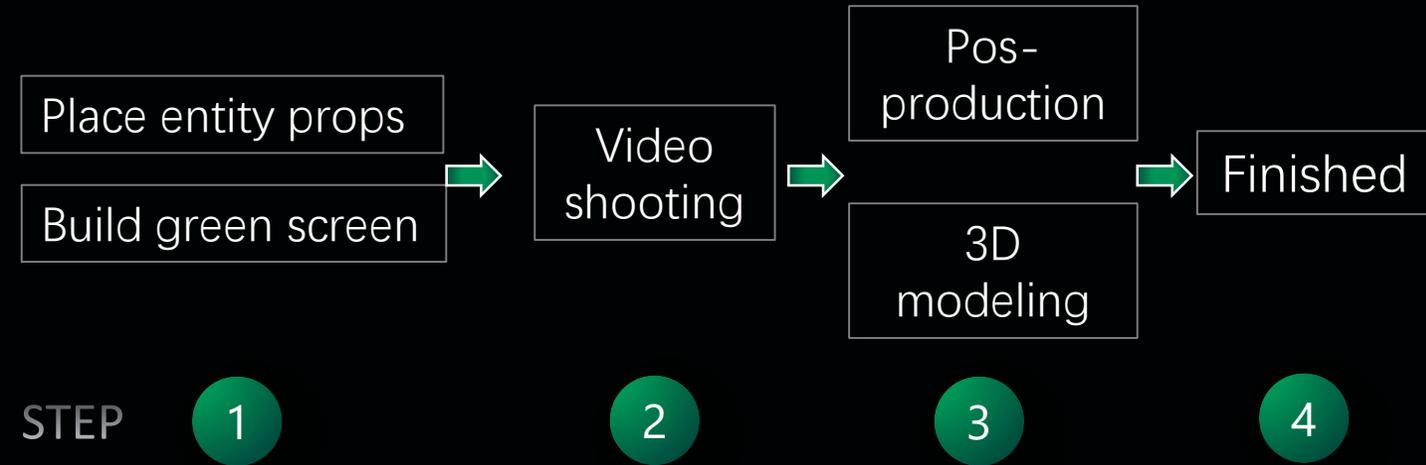


- ✓ Film and TV series production
- ✓ Commercial shooting
- ✓ TV station
- ✓ Studio
- ✓ Live show
- ✓ Product launch Online

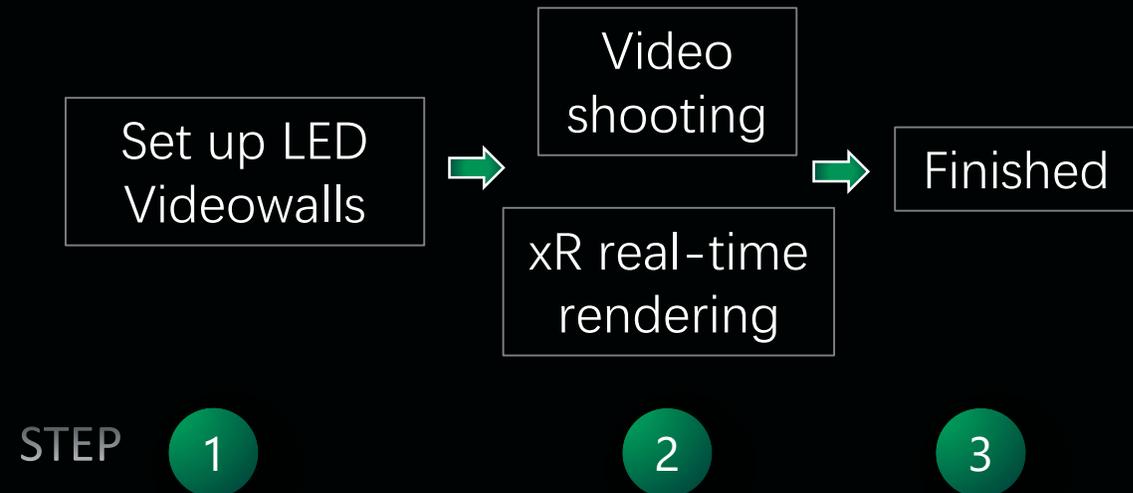
VP/xR Realization Principle



Workflow of Filming Making



Traditional green screens shooting



LED videowalls virtual production



PART TWO

The Advantages

Virtual Engine Real-Time Rendering



Real time rendering and pixel-accurate tracking make innovative way of filming and create super real and flexible changed digital scenes, unleashing creative opportunities for filmmakers. It's allow to create new worlds that actors and see and react to in real-time, previously not possible with green-screen.

Asset Building & Virtual Scouting



The Virtual Scouting functions give Set designers new ways to navigate and interact in virtual production environments while building it, helping to make better creative decisions. They can use measurement and interaction tools to check distances and modify the world, also can easily find compose shots, set up scene blocking, and get accurate representations of filming locations.

Immersive Simulated Lighting



The issues of traditional green screen included green spill and poor contact lighting on characters, LED Virtual Production offers a more realistic lighting, with the correct highlights, light shifts, reflections and pings. The team will not face time constraints and limited of the environment, they can shoot anytime with perfect light conditions.

Reality of Feeling and Perception



Performing in an imaginary environment poses the biggest challenge to the actors' acting skills and the director's control. Virtual production can construct the most realistic and immersive virtual environment. During the shooting process, the actors can enter the role quickly without relying solely on imagination.

Rapid Content Production



LED display provide a solution that is efficient in costs and time by shifting from pre-set to post production. Directors can see these environments through the camera lens immediately and work to make adjustments on set, and don't have to travel to an exotic set for that unique, indispensable shot. The crew can work locally and safely – saving even more on costs.

Highly realistic scenes



- 1) Virtual Engine Real-Time Rendering
- 2) Immersive Simulated Lighting

Efficient shooting



- 1) Scenes production in advance
- 2) Faster scene switching
- 3) Easier to get into a play

Cost saving



- 1) Production cost
- 2) Time cost

COST-EFFECTIVE INVESTMENT

50%

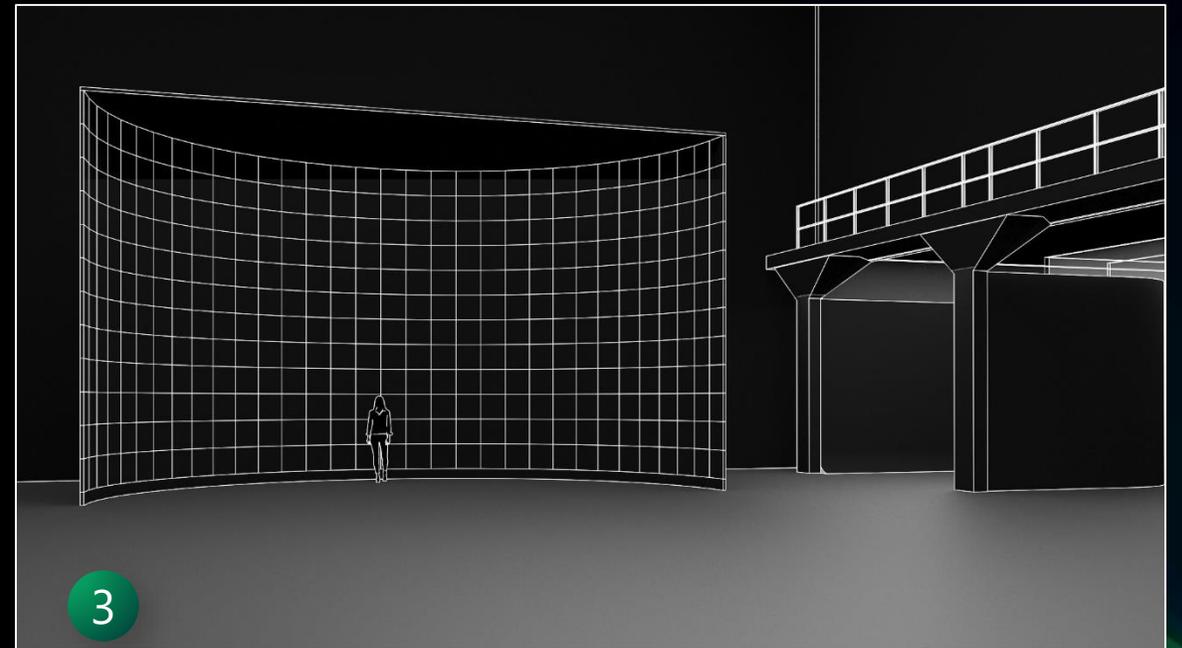
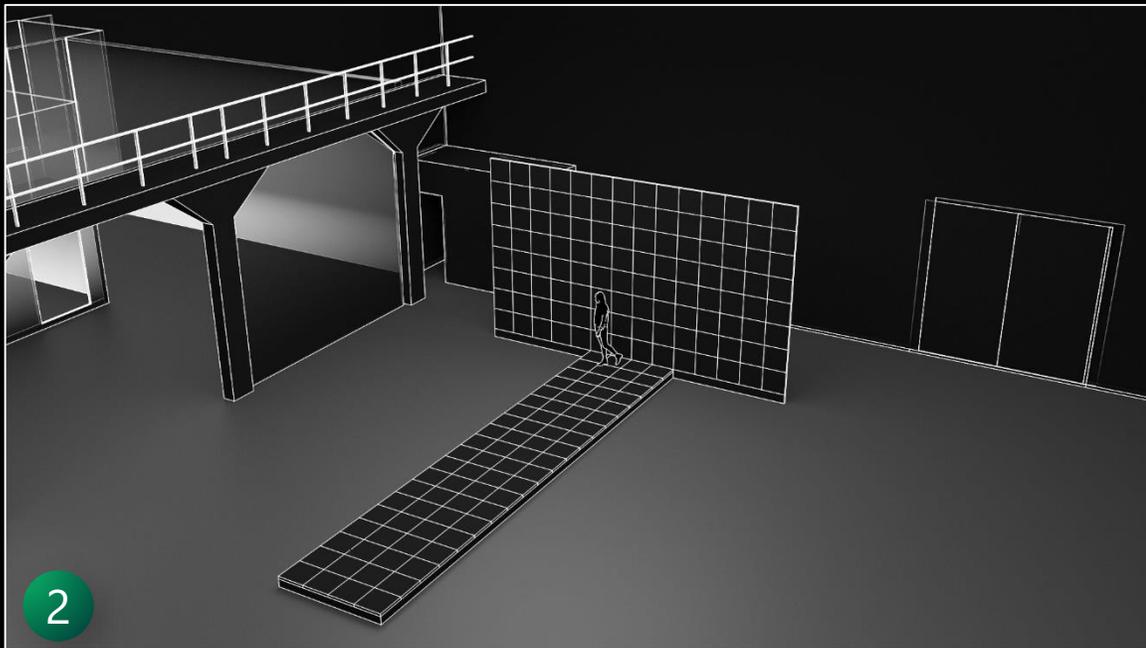
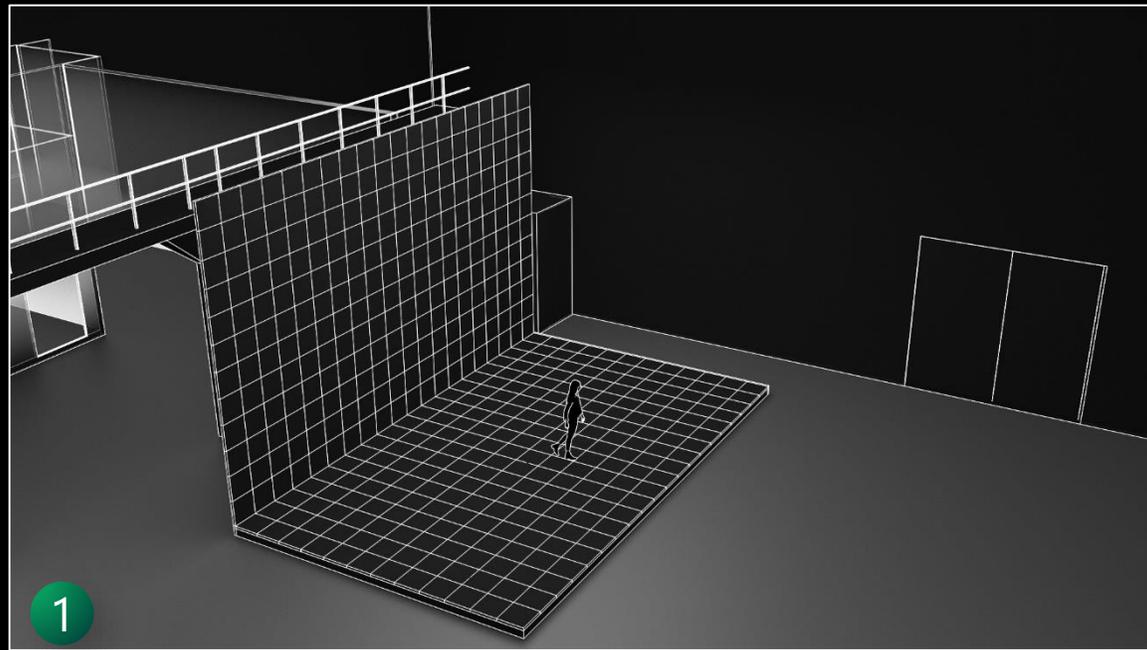
Shooting time reduced by

-  More efficient and faster video shooting
-  Shorter post-processing time
-  Less production cost

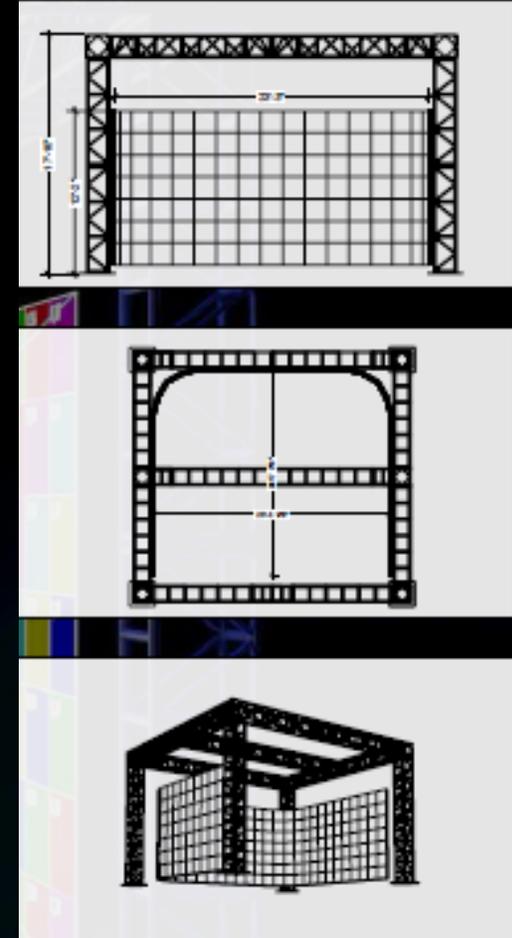
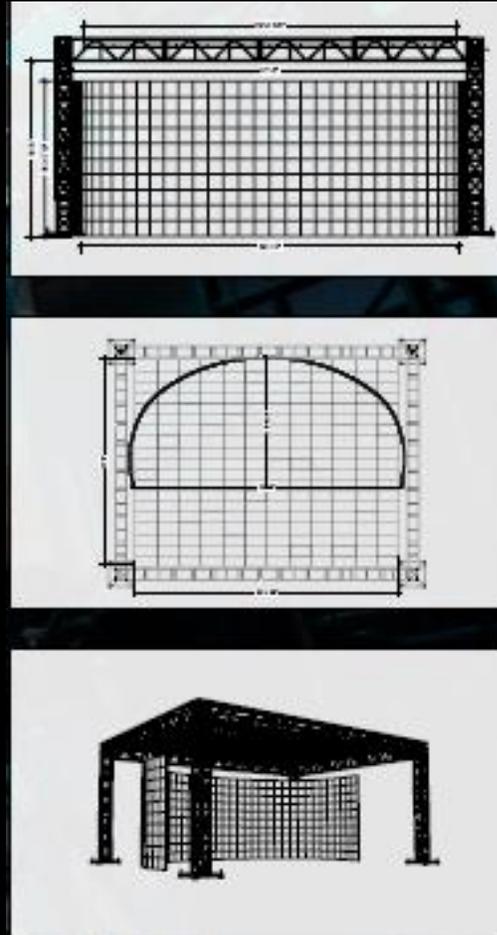
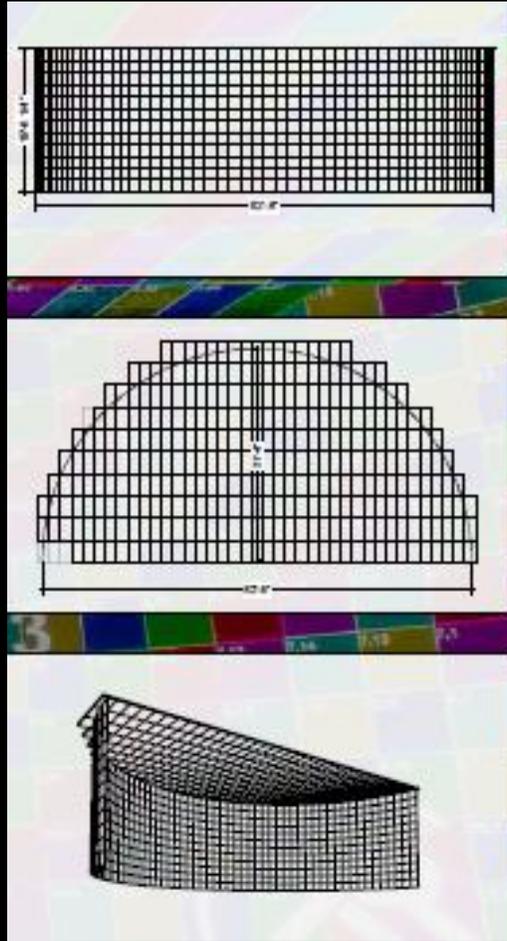
PART THREE

LED Screen Three-Dimensional Volume

Studio Configurations



Studio Configurations



INFILED Qualified

● YEARS OF LED INDUSTRY EXPERIENCE

Over 10 years of LED digital stage display product development and manufacturing experience.

● MOST RELIABLE PRODUCTS

Applying the components with best quality, the LED display can deliver superior effect, and have longer lifespan。

● POWERFUL R&D STRENGTH

Process a Process a first-class R&D team composed of more than 100 people with professional skills.

● PROFESSIONAL CUSTOMIZATION ABILITY

INFILED has provided customized solutions for many creative applications around the world.



Balenciaga Summer Show
2019



Supersonic Music
Festival



Garden Expo Park, Henan



Oscar stage



20 Thousand+
Factory Space

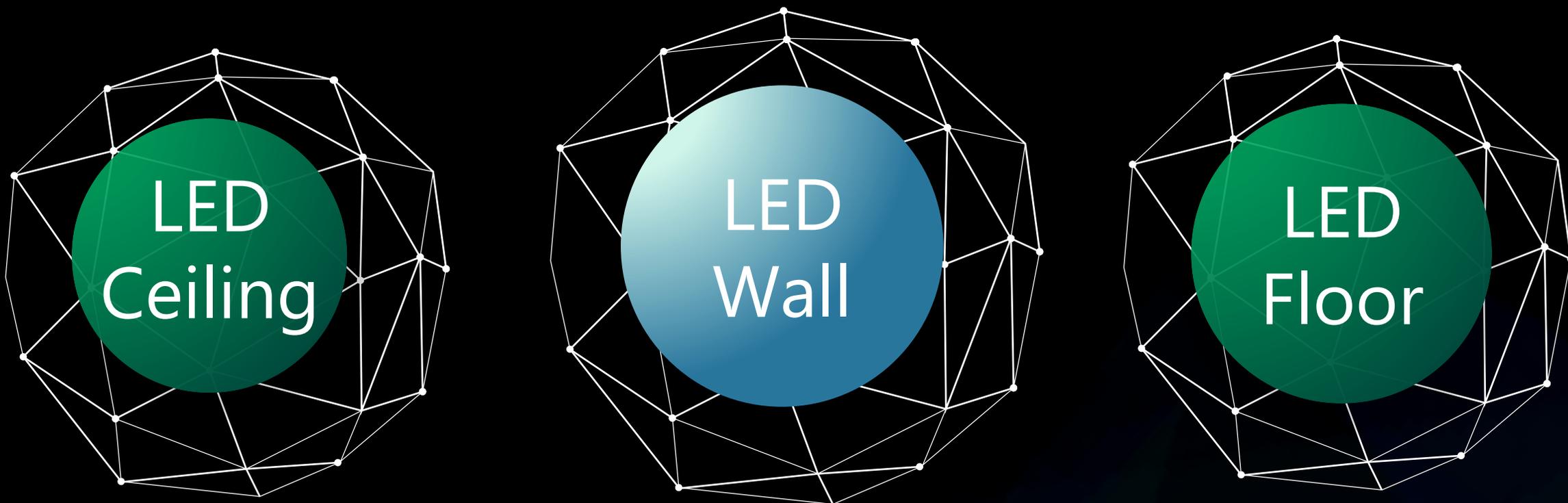


>178
Patent Certifications



6000m²
Production per month

INFiLED Can Offer LED Display for Virtual Studio



INFiLED can offer a soundstage constructed by curved LED Wall, ceiling and floor that together form a LED Volume, replaced the traditional green screen.

 All Products Support

HDR

16 BIT

144 FPS

7680 Hz

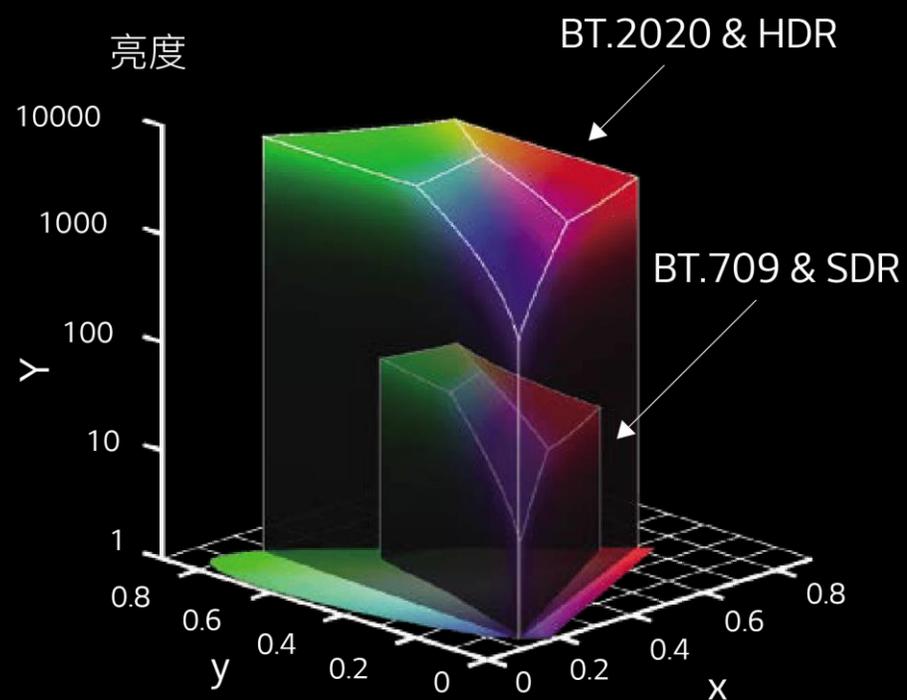
LED Wall

DB Pro S8
Series



Excellent Color Performance

Color space covers 99.2% of
DCI-P3 gamut



Support HDR10



SDR

HDR

High Frame and refresh rate

Ultra Low Latency

The picture is more delicate and video played more fluent



Conventional LED display

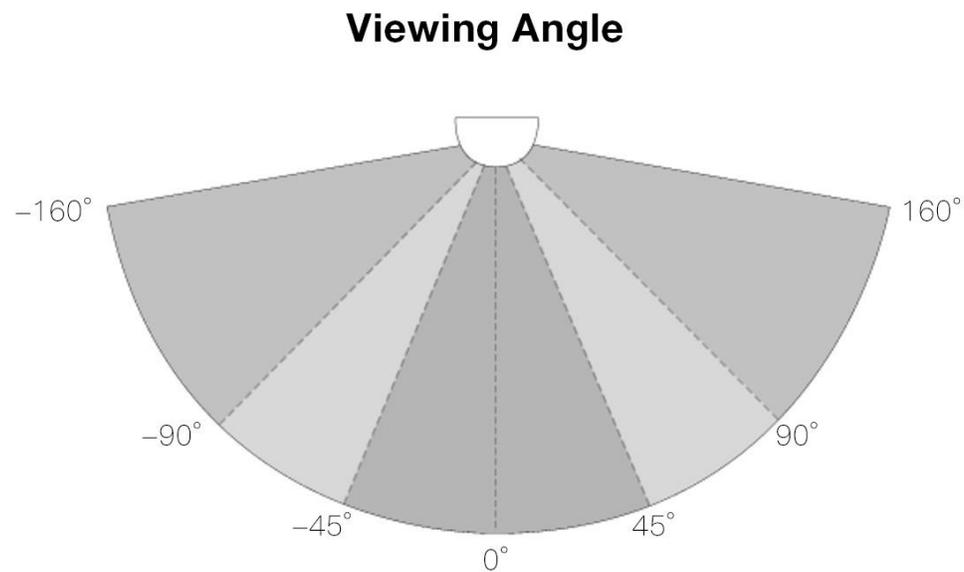
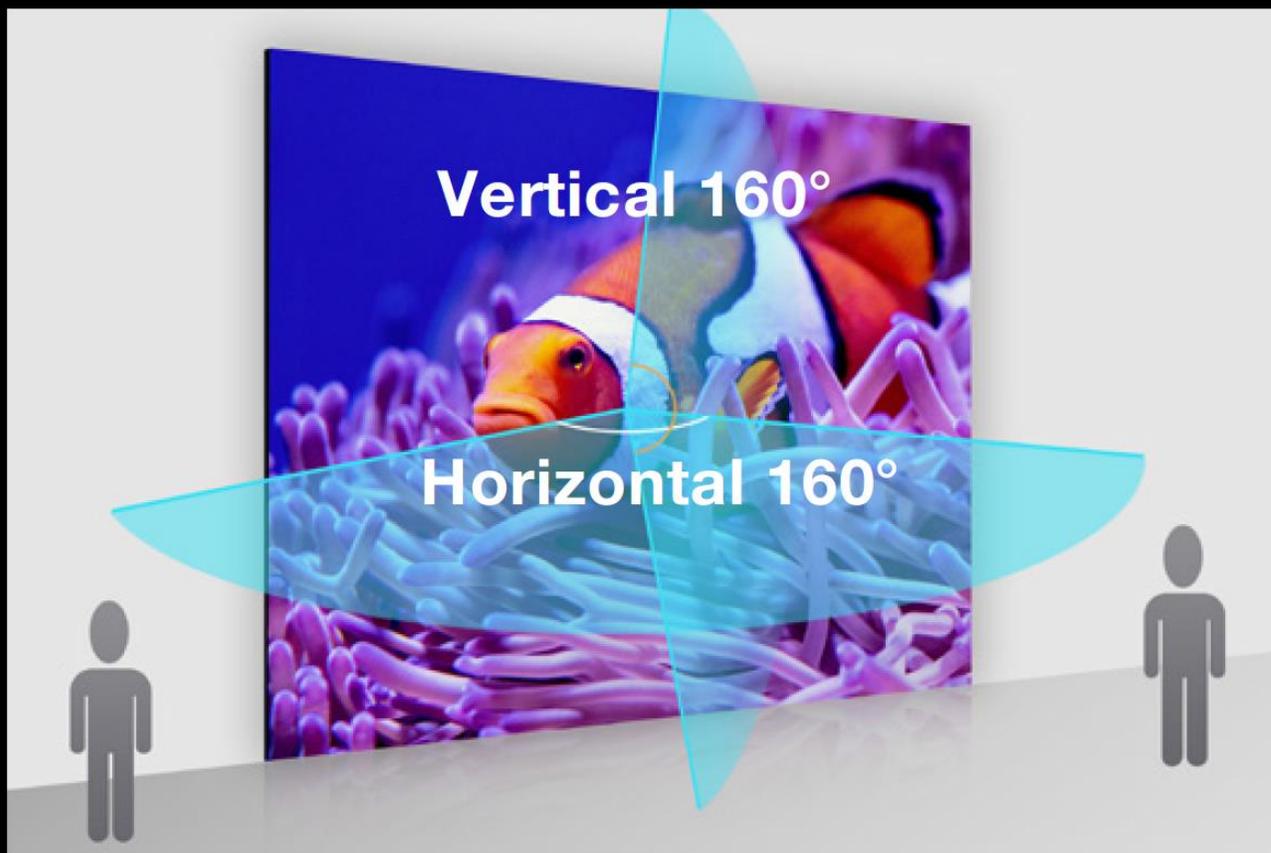


DB Pro

Color Accuracy

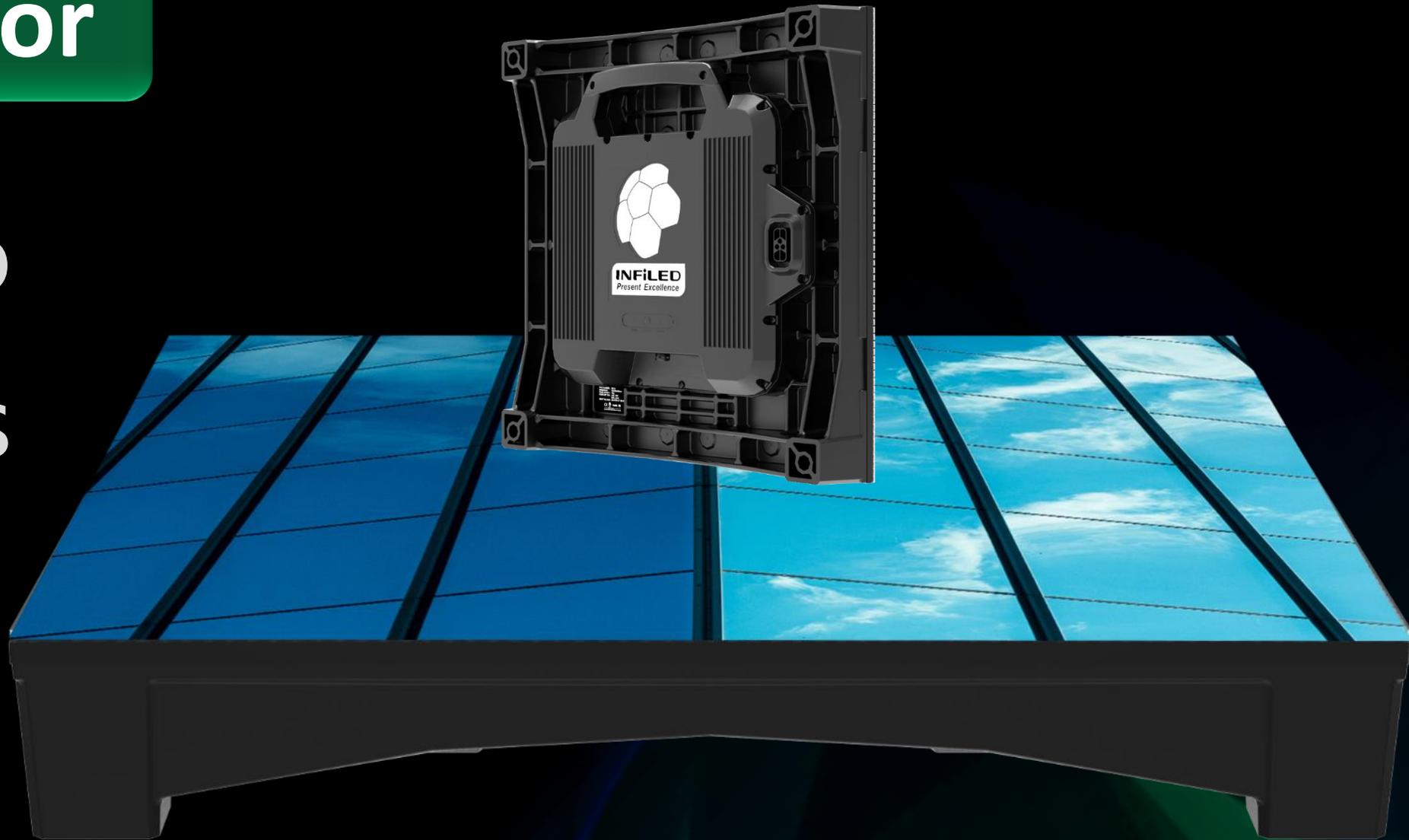
Ultra-wide viewing angle

No Color shifting at wide viewing angle,
stay smooth.



LED Floor

DF Pro
Series



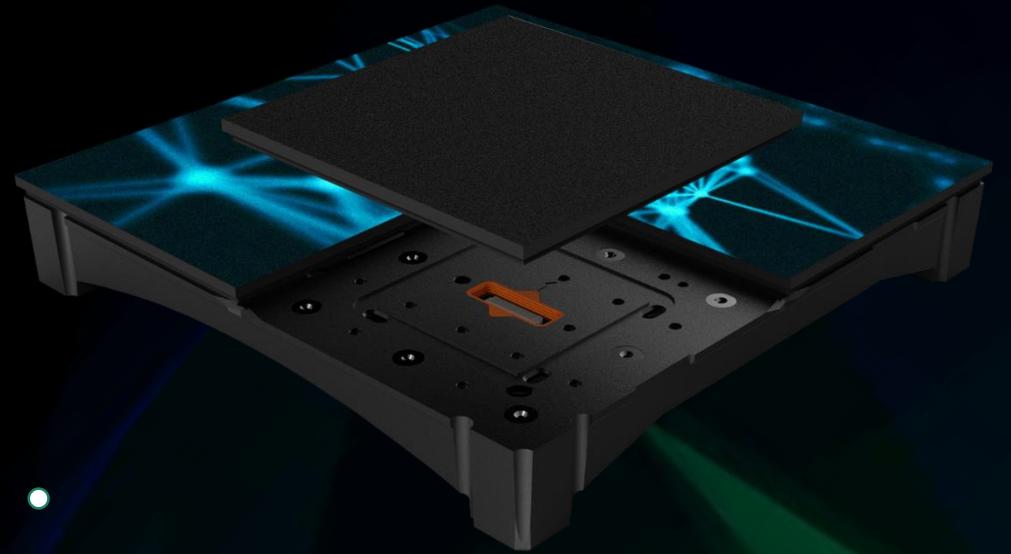
Strong Load-Bearing

Engineered to carry 625kg per cabinet, 2,500kg per m² with a safety factor of 3.



Magnet Module

LED modules are magnetically attached
For easy service and maintenance

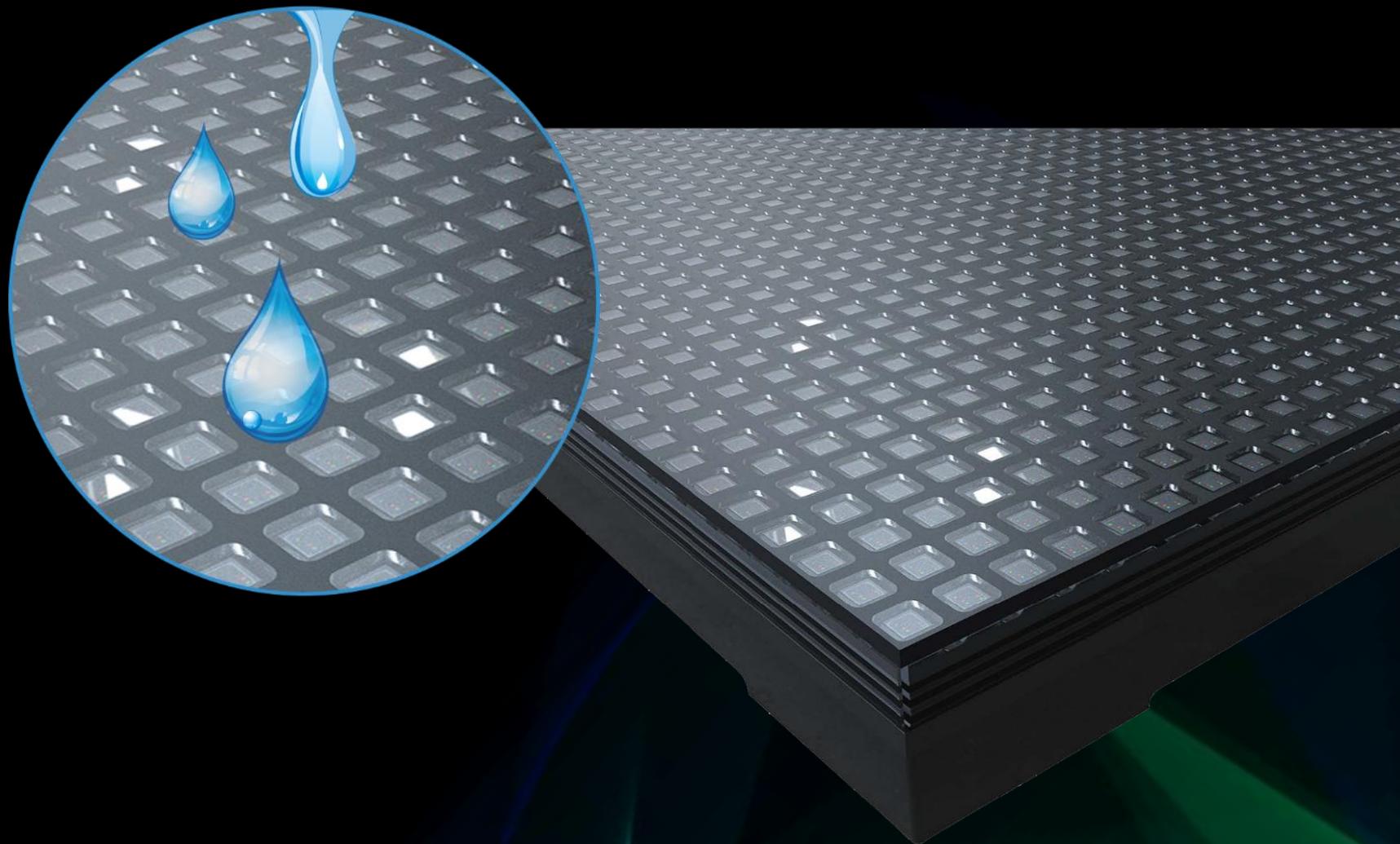


User-friendly Surface Design

Matte anti-slip and anti-reflective surface

Deliver uniform black and great visual performance

IP65 protection

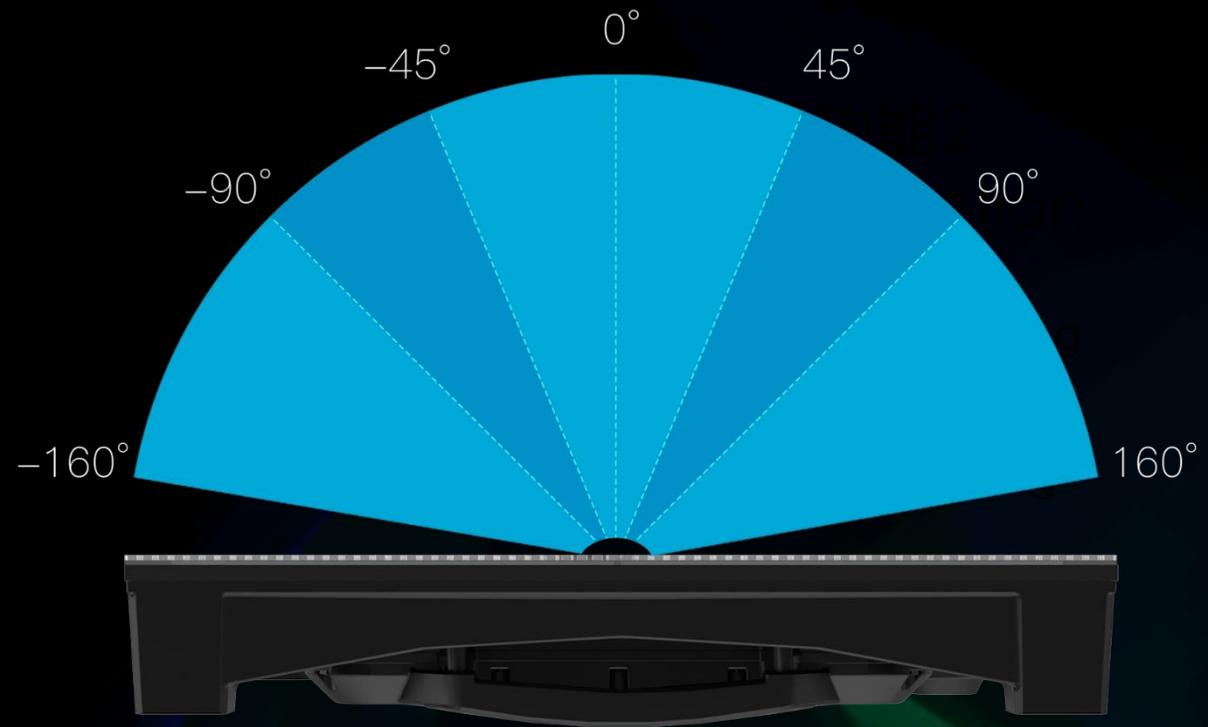
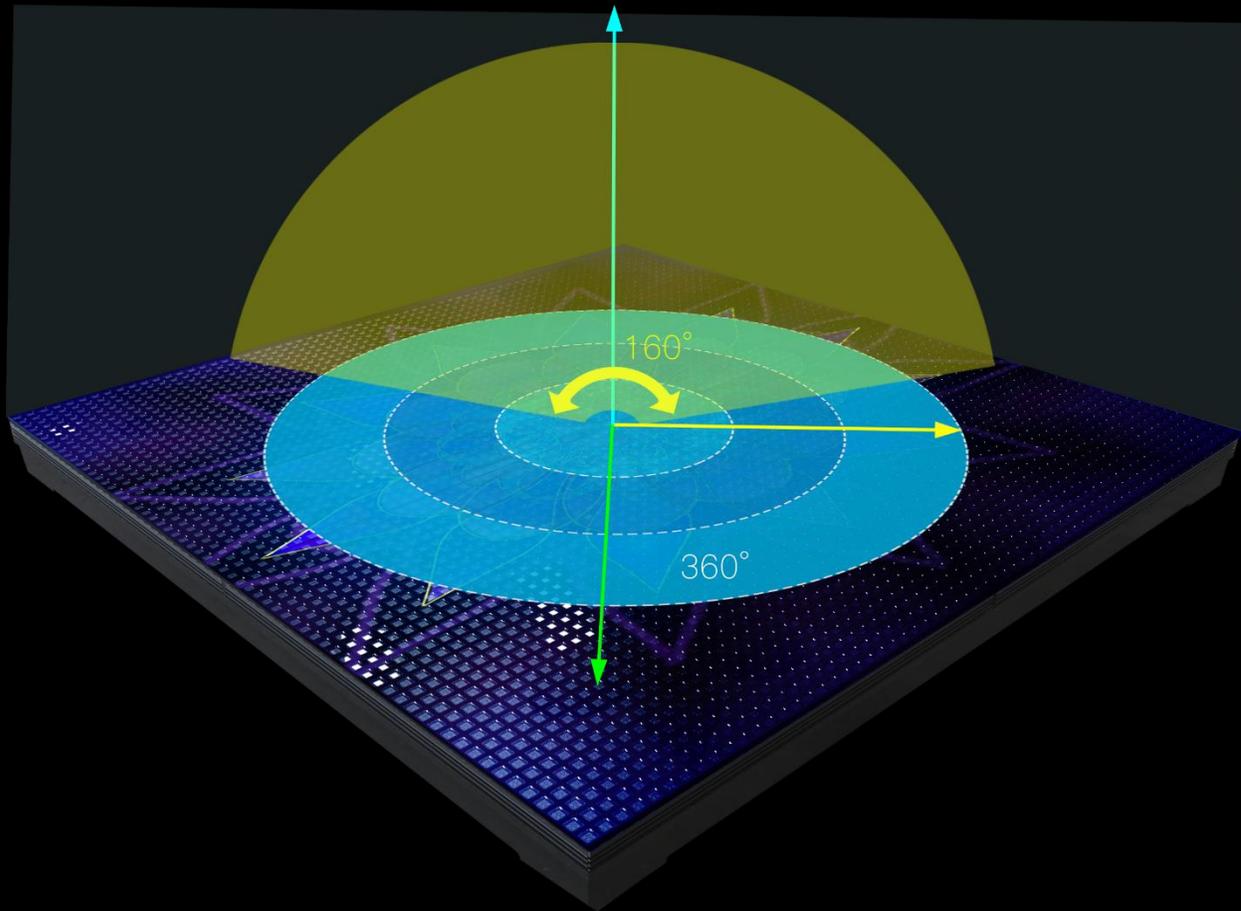


Uniform Light Emission

Ultra-wide viewing angle

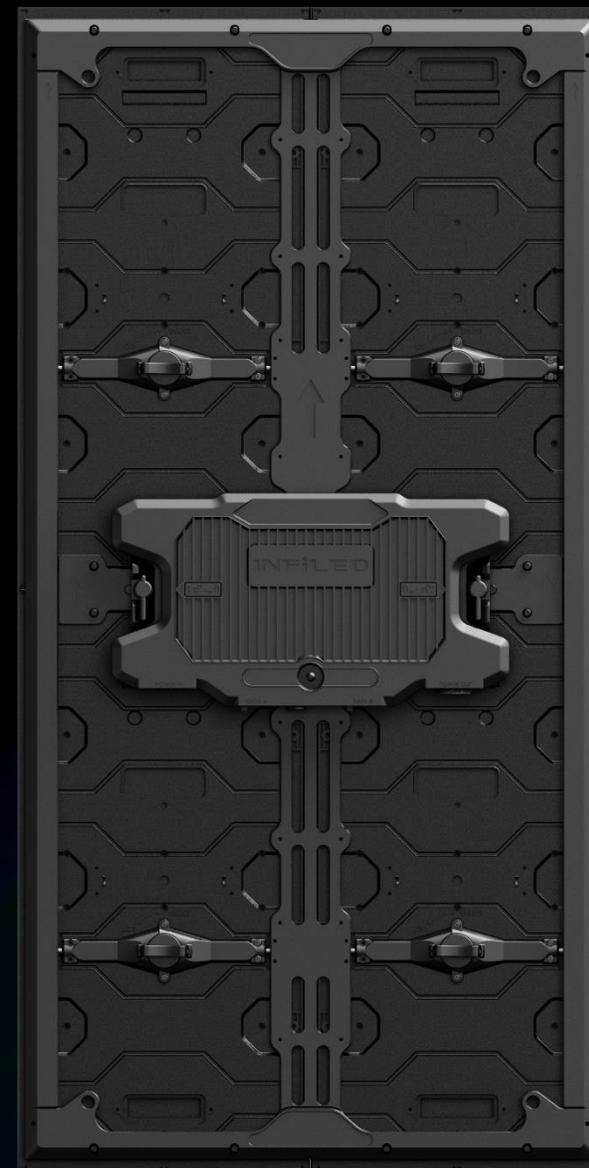
Patented optical mask application

No Color shifting at wide viewing angle



LED Ceiling

AR Light
Series



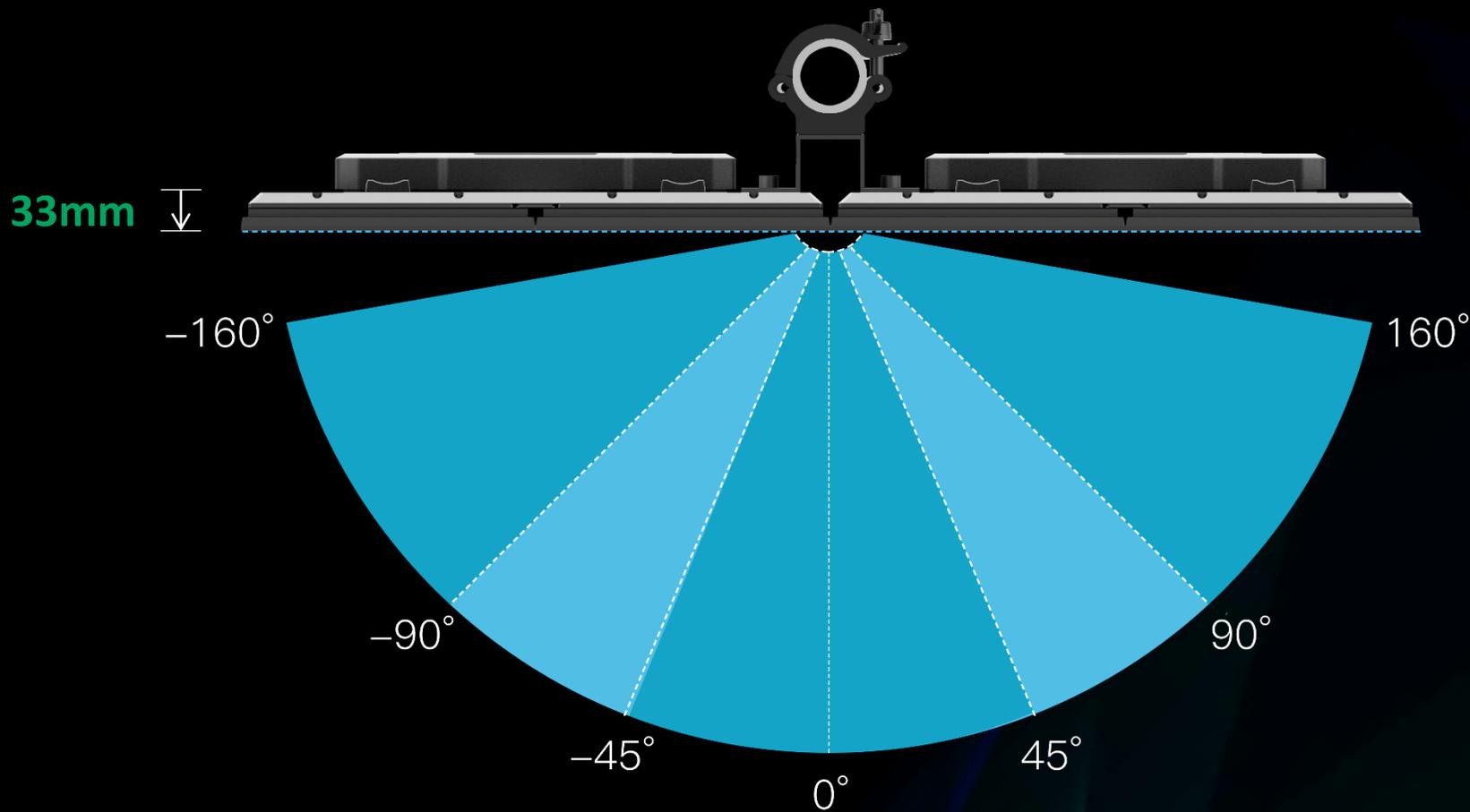
Fast hoisting, easy installation

Bright image, dynamic illumination

Weight: 10.8kg/panel

Thickness: 33mm

High Definition, wide viewing angle



LED Display Selection For Different Senses

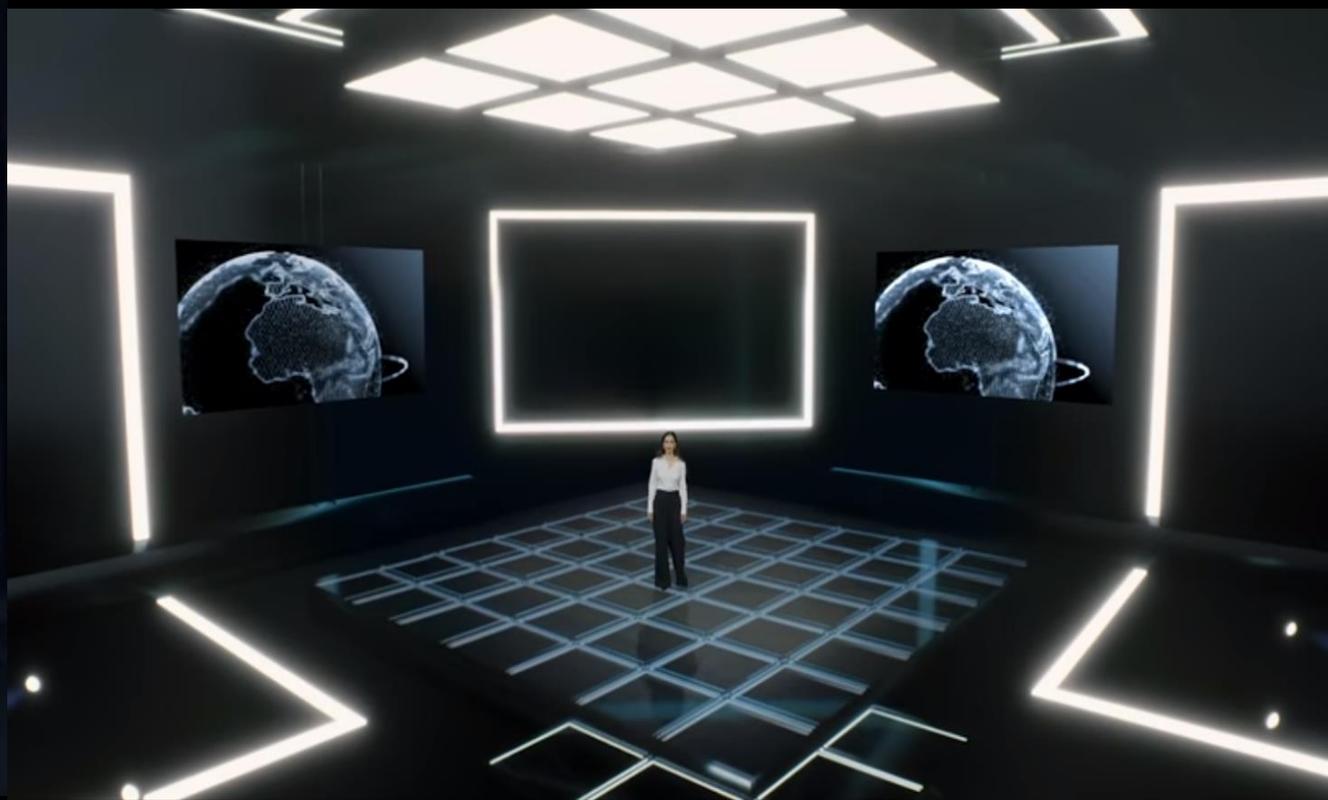
Virtual Production Scenes	LED Volum recommended size	LED Ceiling	LED Floor	LED Wall	Key parameters					
		Pixel pitch	Pixel pitch	Pixel pitch	Brightness	Refresh rate	Gamut	LED Wall	LED Floor	Gen-Lock
								Viewing angle	Viewing angle	
Film Making	270° Curved studio	AR Light3.9	DF3.9 Patented optical mask	DB Pro2.6 S8	Wall: 500~2000Nits Floor: 500~2000Nits Ceiling: 500~5000Nits	≥3840Hz or ≥7680Hz	DCI-P3	H160° V160°	H160° V160°	indispensable
TV Show /Commercial Production	18x5x4.5m 135° Curved studio	AR Light3.9	DF3.9 Patented optical mask	DB Pro2.6 S8	Wall: 500~2000Nits Floor: 500~2000Nits Ceiling: 500~5000Nits	≥3840HZ	DCI-P3	H160° V160°	H160° V160°	indispensable
Virtual Concert shooting	18x5x4.5m 135° Curved studio	AR Light3.9	DF3.9 Patented optical mask	DB Pro2.6 S8	Wall: 500~2000Nits Floor: 500~2000Nits Ceiling: 500~5000Nits	≥3840Hz or ≥7680Hz	Meet normal color gamut standards	H160° V160°	H160° V160°	dispensable
Internet Content Shooting	6x6x3m Stright LED Videowall	AR Light3.9	DF3.9 Anti-reflective mask	DB Pro2.6	Wall: 500~2000Nits Floor: 500~2000Nits Ceiling: 500~5000Nits	≥3840HZ	Meet normal color gamut standards	H140° V140°	H140° V140°	dispensable
Short video shooting	3x3x3m Stright LED Videowall	AR Light3.9	DF3.9 Anti-reflective mask	DB Pro2.6	Wall: 500~2000Nits Floor: 500~2000Nits Ceiling: 500~5000Nits	≥3840HZ	Meet normal color gamut standards	H140° V140°	H140° V140°	dispensable
Variety Shows Recording	18x5x4.5m 135° Curved studio	AR Light3.9	DF3.9 Anti-reflective mask	DB Pro2.6	Wall: 500~2000Nits Floor: 500~2000Nits Ceiling: 500~5000Nits	≥3840HZ	Meet normal color gamut standards	H140° V140°	H140° V140°	dispensable
Sports Programmes Recording	18x5x4.5m 135° Curved studio	AR Light3.9	DF3.9 Anti-reflective mask	DB Pro2.6	Wall: 500~2000Nits Floor: 500~2000Nits Ceiling: 500~5000Nits	≥3840Hz or ≥7680Hz	Meet normal color gamut standards	H140° V140°	H140° V140°	dispensable
Esports Programmes Recording	18x5x4.5m 135° Curved studio	AR Light3.9	DF3.9 Patented optical mask	DB Pro2.6	Wall: 500~2000Nits Floor: 500~2000Nits Ceiling: 500~5000Nits	≥3840Hz or ≥7680Hz	DCI-P3	H140° V140°	H160° V160°	dispensable
Wedding Photographs	3x3x3m Stright LED Videowall	AR Light3.9	DF3.9 Anti-reflective mask	DB Pro2.6	Wall: 500~2000Nits Floor: 500~2000Nits Ceiling: 500~5000Nits	≥3840HZ	Meet normal color gamut standards	H140° V140°	H140° V140°	dispensable



PART FOUR

Cases

PURE VIEW STUDIO



BULGARIA STUDIO



Ten Dots Virtual Production BTS

AMERICA STUDIO



2.6mm sr
1344 x 1536

2.6mm center
3072 x 1536

FRANKFURT LIVE STUDIO



JOHN ANKERBERG SHOW STUDIO



MELBOURNE STUDIO



BRIBANE STUDIO



RIO OLYMPIC STUDIO



SYDNEY STUDIO



The background features a dark, almost black, field with intricate, ethereal patterns of light. These patterns consist of overlapping, flowing lines and shapes in shades of vibrant green and deep blue. The lines appear to move and swirl, creating a sense of dynamic energy and depth. The overall effect is reminiscent of a nebula or a complex, organic structure.

THANKS