Taylorleds

WN II

ENGINEERED TO SAVE TIME WITHOUT COMPROMISE

Larger Panels. Thinner Design. Faster Installs.

WN II SERIES 0.7mm, 0.9 mm, 1.2mm, 1.5mm

2025 WN II SERIES FLIP CHIP COB INDOOR LED

Taylorleds

Create with No Limits

Taylorleds is an innovative, integrity minded joint–venture focused on providing State of the Art LED products. Absen owns 80% of Taylorleds and manufactures most of Taylorleds LED Display prod–ucts while Design, R&D and QC are handled by Tay–lorleds. Absen is a public–listed Chinese LED Display manufacturer.

Taylorleds is delighted to introduce our latest and most advanced line of LED systems. With decades of experience in OEM manufacturing and unparal–leled expertise in internal design and engineering, our team of technicians has meticulously crafted every aspect of the design. This unique Micro LED design puts a pristine focus on mechanical design, visual graphic electronics, installation, reliability, service and support, while providing multiple resolu–tions. Our LED processing systems are precisely tailored to accommodate any budget, providing a comprehensive solution for a wide range of require–ments and applications.

Experience Matters: The WN II Redefines Your Digital Canvas

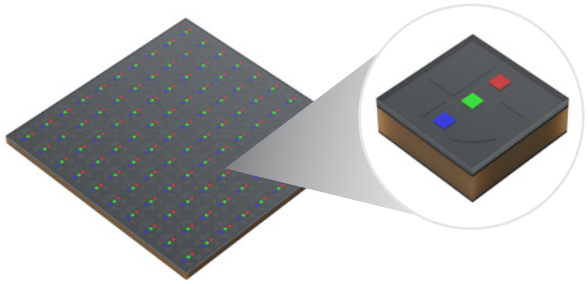
Since the introduction of COB technology, we are proud to introduce the WN II, now available with a **larger 600 x 675mm panel size** in addition to the original 600 x 337.5mm. The larger panel option significantly reduces installation time while maintaining the seamless precision Taylorleds is known for. The WN II is also **15% thinner** than the previous model and features robust **hard pin connectors** for both **data and power**, ensuring a faster, more reliable setup.

Engineered as the pinnacle of indoor ultra-fine pitch LED displays, the WN II incorporates a super black, uniform polymer coating and flip-chip design that deliver higher brightness, superior contrast, enhanced durability, and lower power consumption. Powered by advanced graphic cards, each display undergoes meticulous factory calibration to guarantee true-to-life color accuracy and HDR color grading.

The Best COB Display

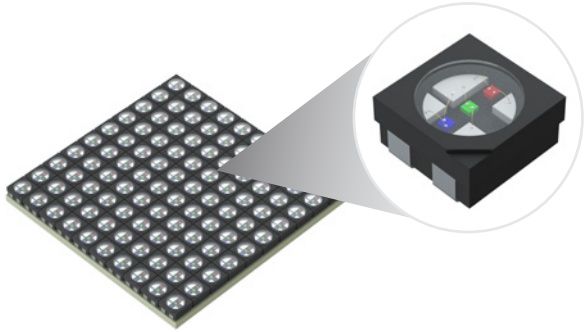
COB Technology

Brings refined specular highlights, incredible detail in shadows, and vibrant, true–to–life colors. Each display is calibrated in the factory and features pro reference modes for HDR color grading.

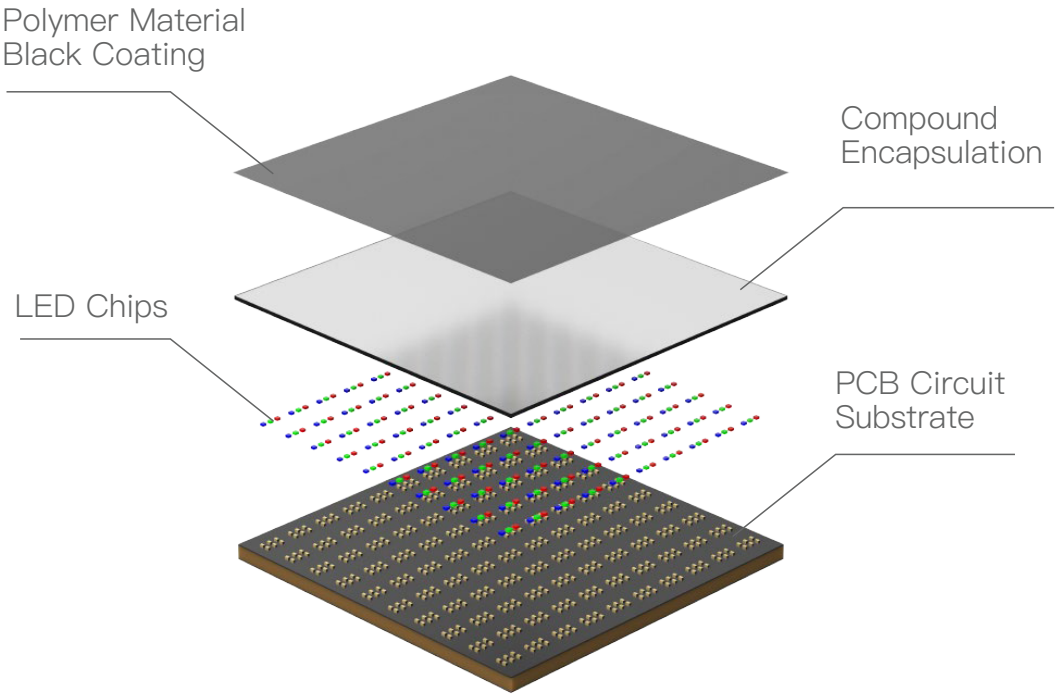


COB Compared to SMD

COB modules as compared to SMD modules provide anti–collision and easy cleaning characteristics. Extremely low pixel failure makes it a good choice for very high resolution walls.



CORE PACKAGING TECHNOLOGY



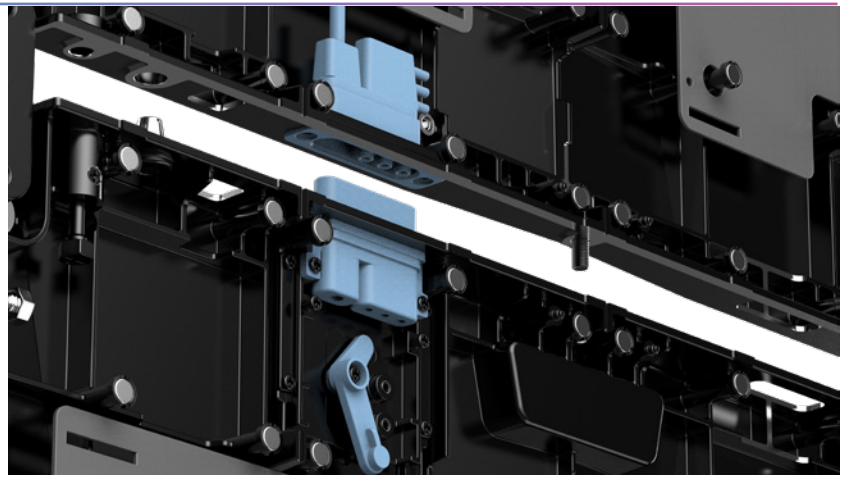
High Refresh Rate: 7680Hz

The WN II features a 7680Hz refresh rate powered by advanced driver ICs and PWM optimization. By extending the pulse width through PAM (Pulse–Amplitude Modulation), the display allows for longer on–times per frame, eliminating visible flicker and ensuring smooth, stable playback—even in low grayscale conditions.

Elevated Panel Design with Pro Features

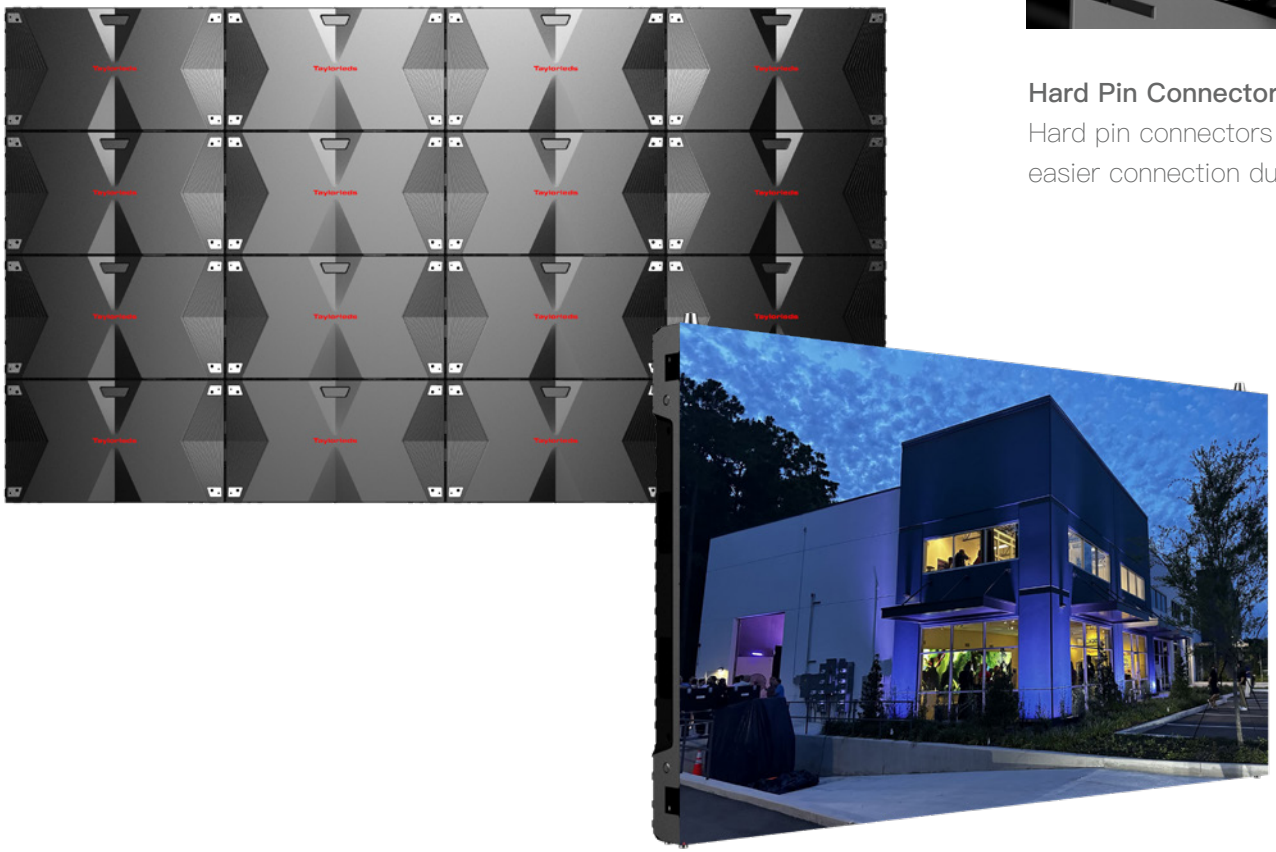
True 16:9 Ratio

16 x 9 panel allowing perfect aspect ratios that match any HD format without the need for scalers or external video processing.



Hard Pin Connectors

Hard pin connectors for data and power for easier connection during installation.



Deep Black

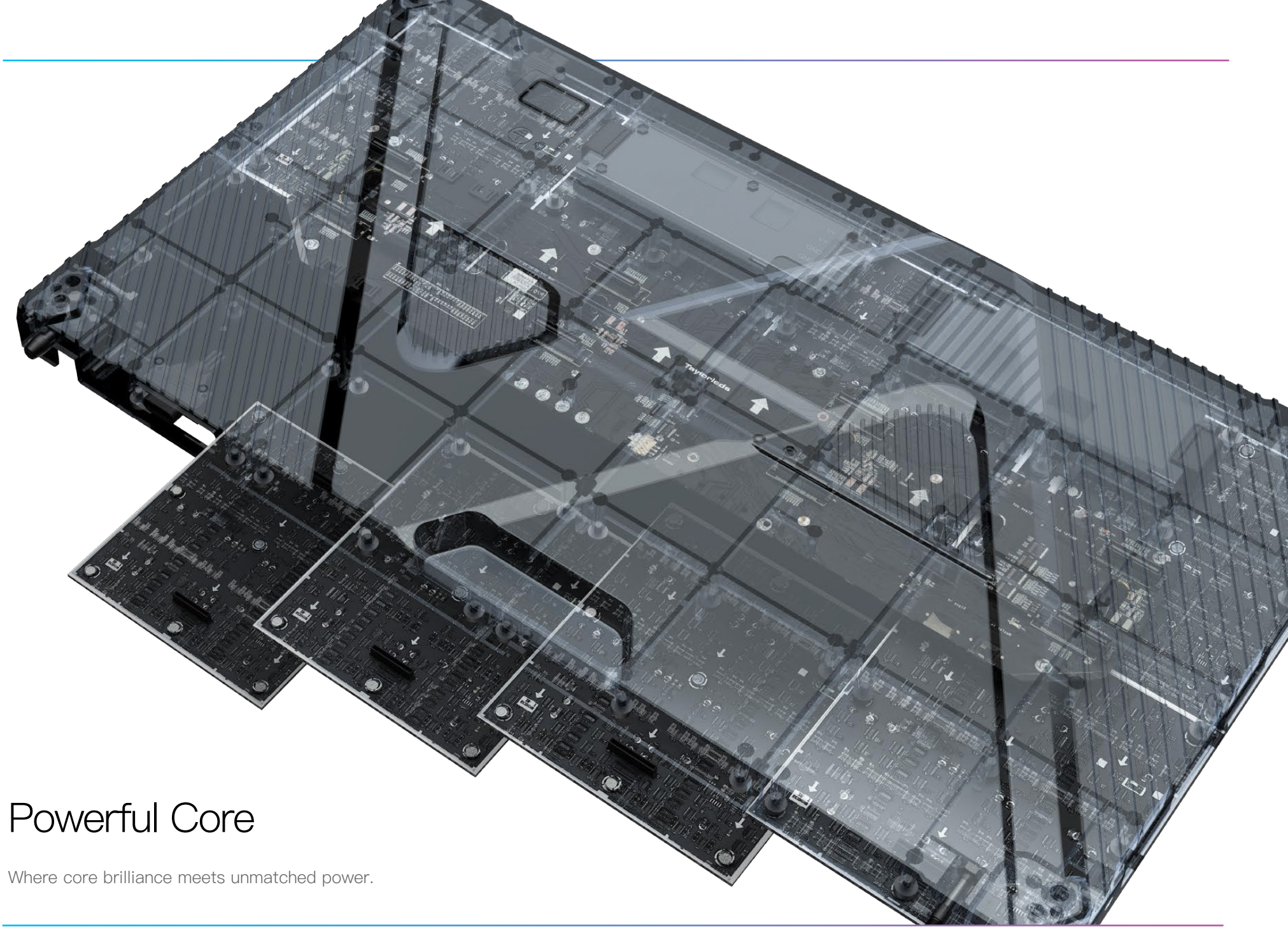
Precise color accuracy with an COB manufacturing process that boasts enhanced individual LED color matching and module calibration. Advanced calibration architecture enables stunning clarity.

15% Thinner

Just over 1.3” thick panel (33 mm / 1.3”).

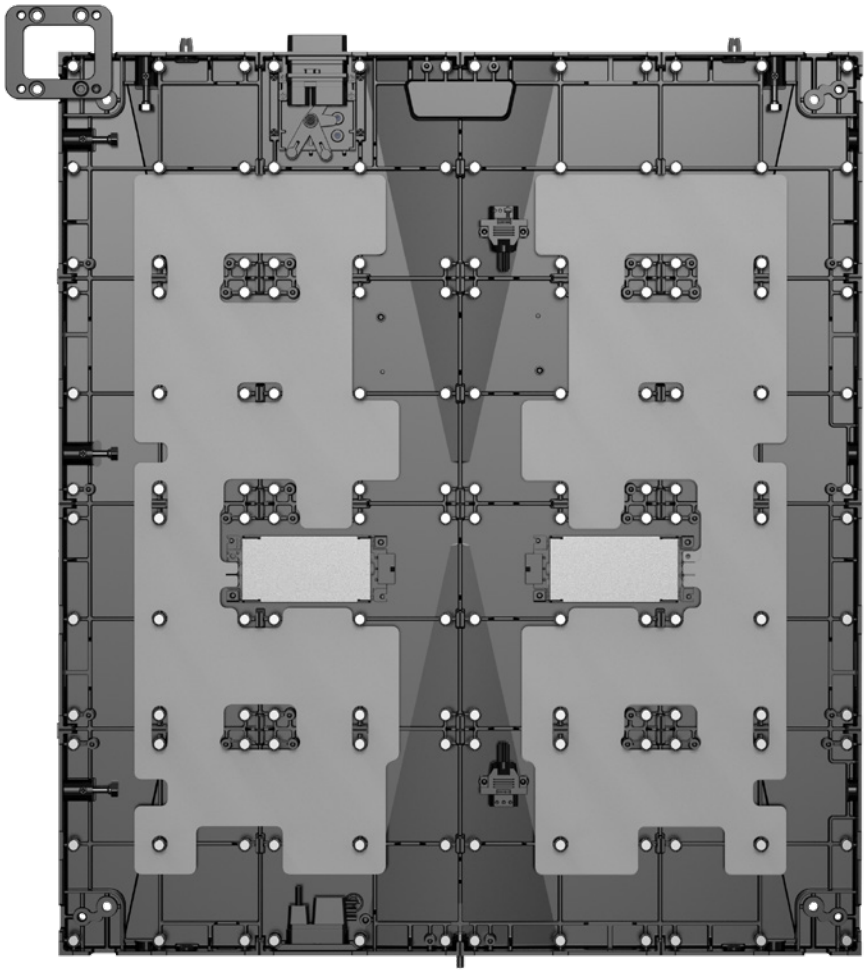
Front Serviceable

The WN II LED display is engineered for maximum convenience and efficiency, featuring a front serviceable design. This allows for easy access to both the power units and LED modules, enabling swift removal and replacement directly from the front of the display. As a result, maintenance time and effort are significantly reduced, ensuring minimal disruption and enhanced operational reliability.



Powerful Core

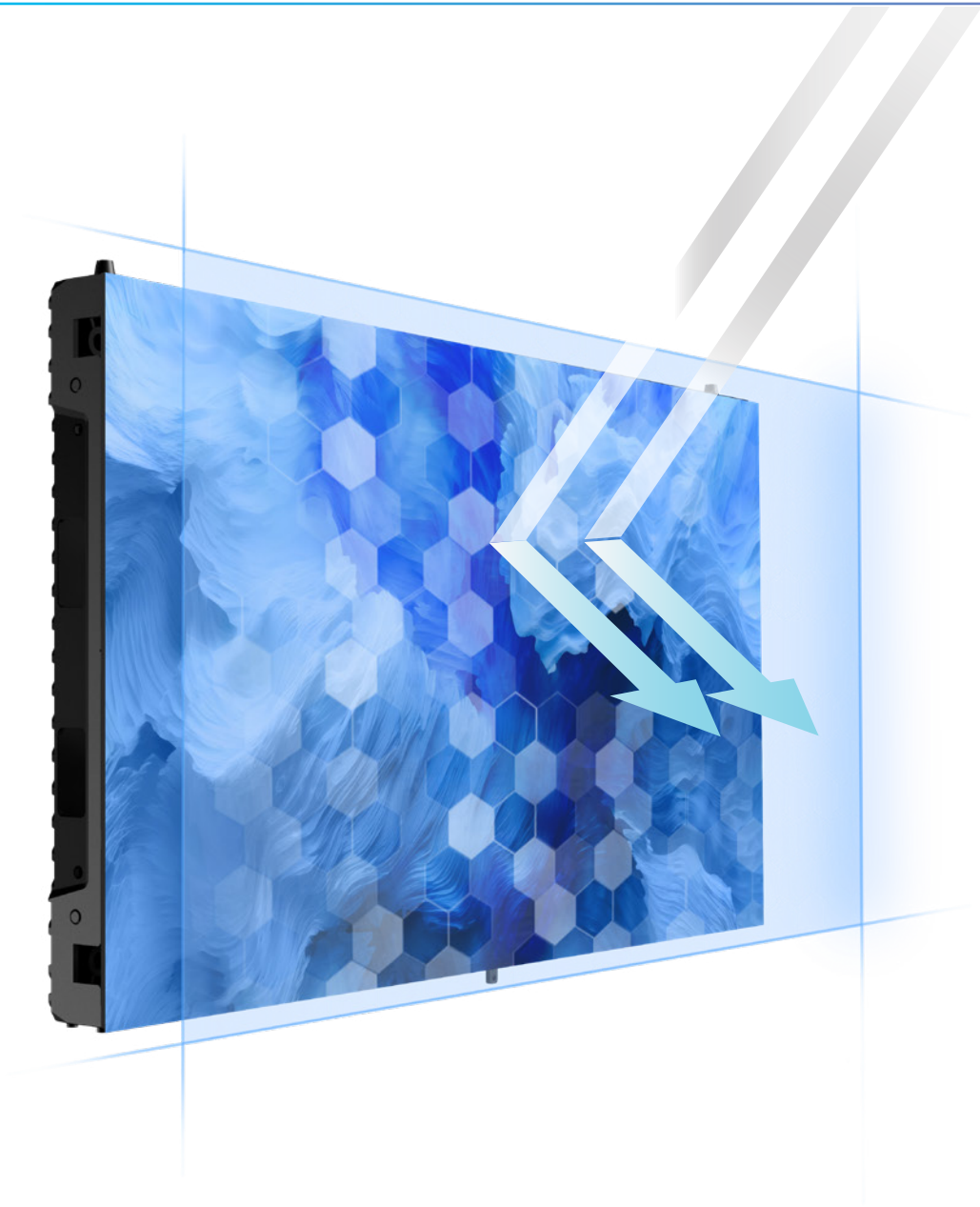
Where core brilliance meets unmatched power.



Uninterrupted Performance with Intelligent Redundancy

In environments where every second counts, the WN II rises to the occasion with an optional dual-backup configuration designed for mission-critical applications. This robust system features redundant power supplies and dual receiving cards, ensuring uninterrupted performance—even in the event of a hardware failure.

Should a primary power source or signal path encounter an issue, the backup seamlessly takes over, maintaining continuous operation without black screens, flickers, or data loss. Whether deployed in broadcast studios, command centers, transportation hubs, or high-stakes corporate spaces, WN II keeps you online and on point.(Available for P1.2 and P1.5 with 600×675 mm cabinets.)



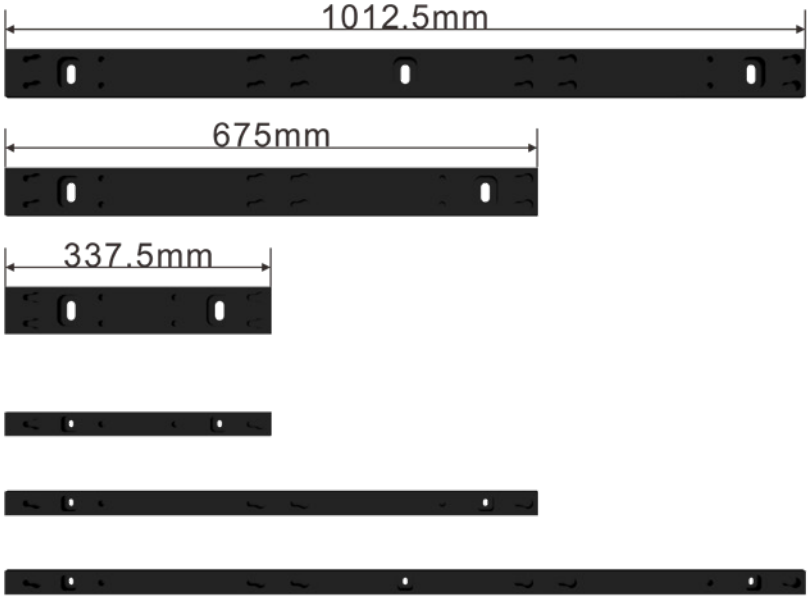
Super Protective Surface

- Dust–resistant
- Anti–collision
- Anti–oxidation
- Moisture–resistant
- Anti–static
- Anti–finger marks

Wall Mounting Options

Wall Mount System

Specifically designed wall mount system for WN II panels.
Brackets are modular designed and easily connect together.



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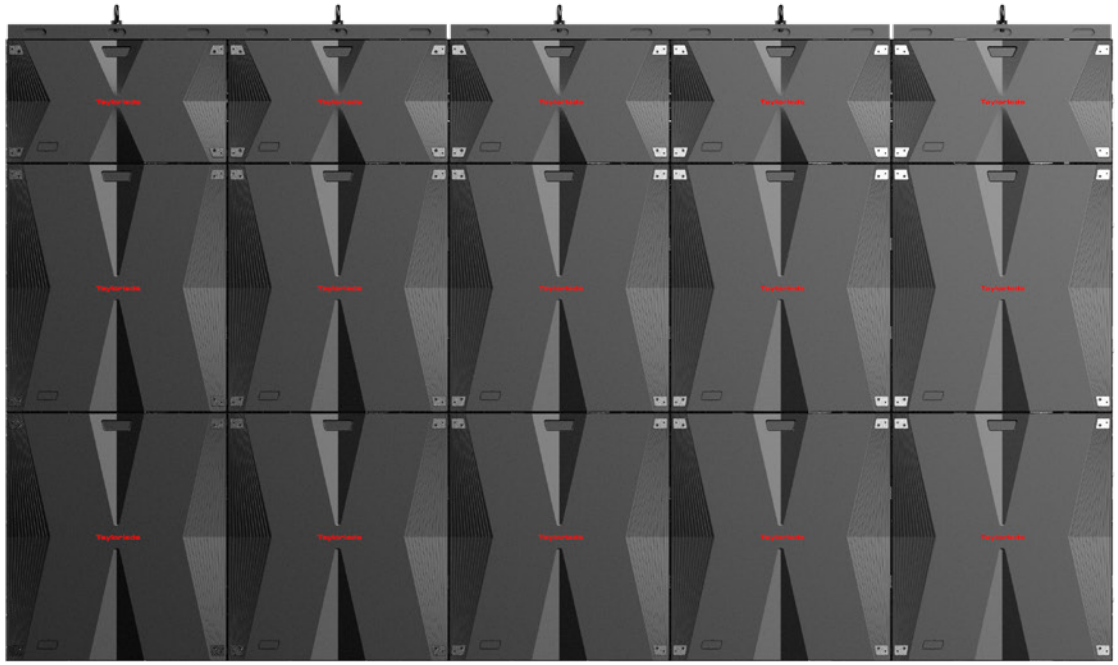


Hanging Option

Rigging System

Specifically designed for WN II panels in 600 mm width and 1200mm width.

Floor Stack Option

Stacking System

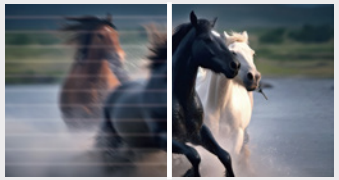
Designed by industry veterans, the universal stacking system for LED panels is both easy to use and highly reliable, ensuring quick setup and teardown.

Elevated Graphics Performance

WN II can be paired with either Novastar A8s/N card and MX Coex VMP Platform or Colorlight K10 card. We upgraded the WN II IC's to 7680hz refresh rate and the most powerful processing available on the market today. With the exceptional and elegent design of the WN II, it elevates the LED experience by providing the state-of-the-art color, operational control and advanced camera correction features.

5G Card Option Available

5G cards with ultra-high loading capacity

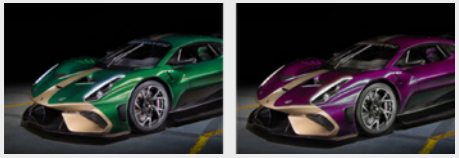


7,680hz Refresh

7,680hz refresh rate eliminates visible flicker and ensures smooth and stable playback

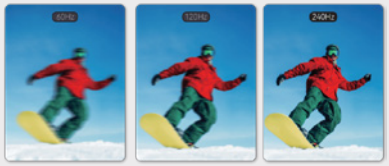
Frame Multiplexing

Allows users to re-frame multiple video feeds in the same time field. It is possible to output multiple effects simultaneously within a single shooting scene, improving work efficiency.



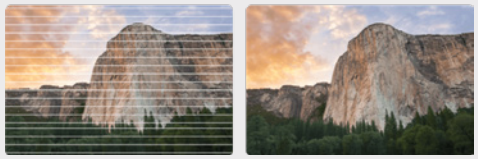
Color Replacement

Supports unrestricted color replacement, with minimal impact on other colors.



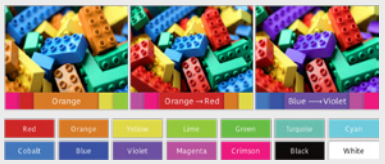
HFR

Supports high frame rates up to 120Hz, 144Hz, or even 240Hz. This allows smooth representation of video featuring high-speed moving objects.



Phase Offset

Adjusting the output phase offset value allows the LED display and camera to perfectly match. Prevents black field and image tearing from being captured when shooting the LED display.



14CH Color Correction

Precise adjustment of hue, saturation, and brightness of primary, secondary and tertiary colors, with basic adjustment of black and white, ensuring perfect colors.

Color Curve + 3D LUT

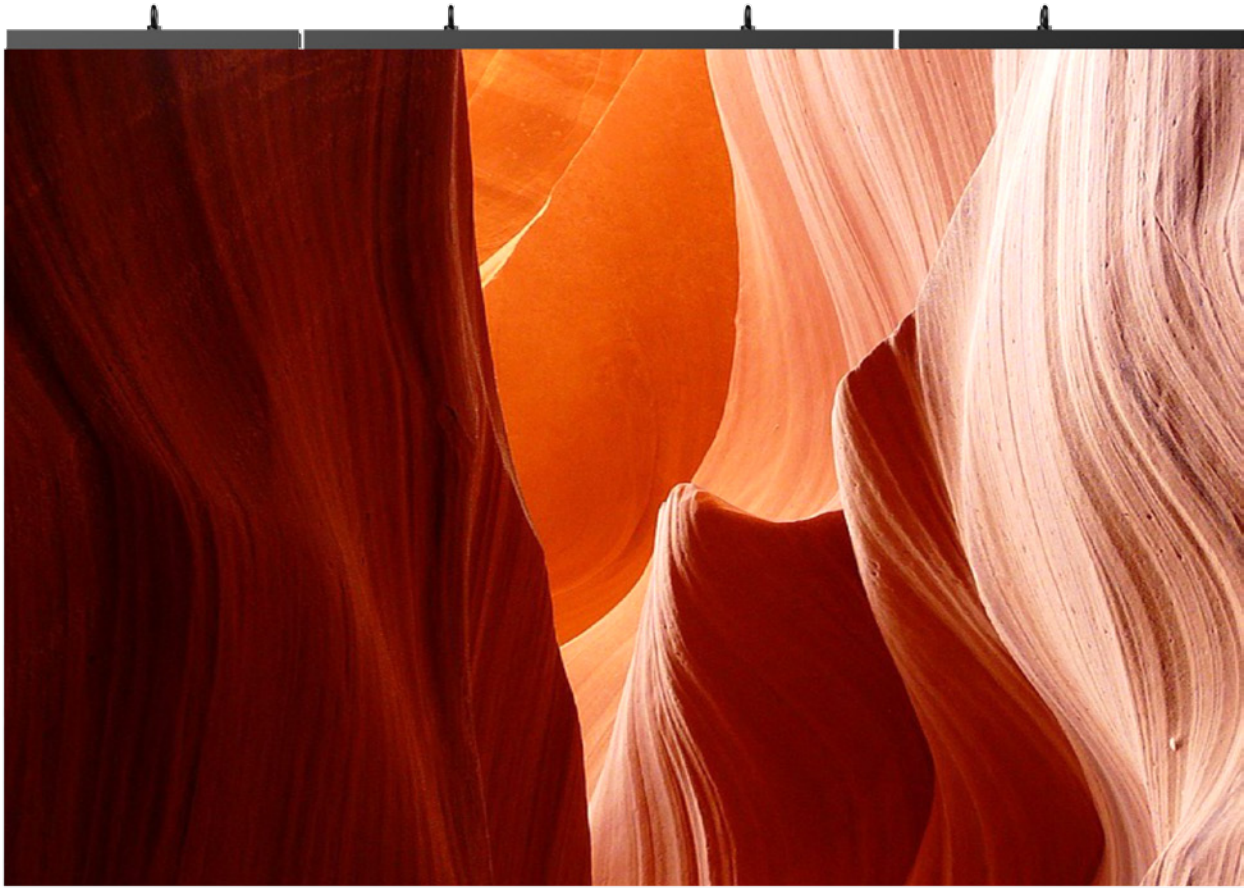
Curve adjustment and importing of 3D LUT files let you manage color in creative and artistic ways, just like a Hollywood colorist.

Contrast + Black Level

Allows independent adjustment of highlights and shadows by contrast and black level, avoiding overexposure but delivering rich dark content.

Dual Image Booster

Improves the performance of grayscale, color and contrast ratio, creating an immersive view to fulfill the requirements necessary for xR applications.



Specifications

Specifications	WN II 0.7	WN II 0.9	WN II 1.2	WN II 1.5
LED Type	Flip Chip RGB	Flip Chip RGB	Flip Chip RGB	Flip Chip RGB
Pixel Pitch (mm)	0.78	0.93	1.25	1.56
Panel Dimensions (W*H)/(mm)	600 x 337.5 x 33	600 x 337.5 x 33	600 x 337.5 x 33 600 x 675 x 33	600 x 337.5 x 33 600 x 675 x 33
Pixel Per Panel	768x432	640x360	480x270 480x540	384x216 384x432
Panel Weight (kg)	4.2	4.2	4.2 / 9	4.2 / 9
Panel Material	Die Casting Aluminum	Die Casting Aluminum	Die Casting Aluminum	Die Casting Aluminum
Module Dimensions (W*H)/(mm)	150 x 168.75	150 x 168.75	150 x 168.75	150 x 168.75
Brightness (nit)	800	800	800	800
Refresh Rate (Hz)	⩾3840	7680	7680	7680
Grayscale (bit)	16	13	13	13
Contrast Ratio	15,000:1	15,000:1	15,000:1	15,000:1
Color Temperature (K)	6500	6500	6500	6500
Viewing Angle (H/V) (°)	160/160	160/160	160/160	160/160
Driving Type	1/64	1/54	1/60	1/54
AC Operating Voltage (V)	100~240	100~240	100~240	100~240
Power Consumption (Max./Avg.) (W/m^2)	450/150	400/133	350/117	336/112
Storage Temperature (℃)	-40~+60℃	-40~+60℃	-40~+60℃	-40~+60℃
Operating Temperature (℃)	-10~+40℃	-10~+40℃	-10~+40℃	-10~+40℃
Storage Humidity (RH)	10%~85%	10%~85%	10%~85%	10%~85%
Operating Humidity (RH)	10%~80%	10%~80%	10%~80%	10%~80%
IP Rating (Front/Rear)	IP40/IP21	IP40/IP21	IP40/IP21	IP40/IP21
LED Lifetime (H)	100,000	100,000	100,000	100,000
Maintenance	Front	Front	Front	Front
Panel Installation Type	Fixed/Hanging/Stacking	Fixed/Hanging/Stacking	Fixed/Hanging/Stacking	Fixed/Hanging/Stacking
Certification	TUV-CE, RoHS, ETL, FCC	TUV-CE, RoHS, ETL, FCC	TUV-CE, RoHS, ETL, FCC	TUV-CE, RoHS, ETL, FCC

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