UNITED SIGN GROUP
ARCHITECTURAL | ENGINEERING | DIGITAL

Holon

Crane-Free, Fast-Deployed Outdoor LED Displays

The perfect LED solution for:

Hospitality | Schools | Sports Stadiums |
Entertainment Venues | Retail | Manufacturing

Design | Project Management | Service | Technical Support

www.unitedsigns.com

Holon

Holon is purpose-built for scenarios where cranes are impractical or not preferred—whether due to location, space, environment, access, or budget.
With its lightweight, fully integrated, and modular design, Holon enables handheld installation and plug-and-play deployment, dramatically reducing time, cost, and complexity on site.

Perfectly Sized for Single-Person Handling **1' × 2' | 304.8mm × 609.6mm**

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1x2' (304.8x609.6mm)

All-in-One

Handheld

Crane-Free

Integrated Cable

Plug-Play

10,000Nits+

3,840Hz+

Fanless Design

Smart Heat Dissipation

Frame-Separated

Unmatched Versatility

Front&Rear Access

Full Module Replacement

Remote Monitoring & Diagnosis

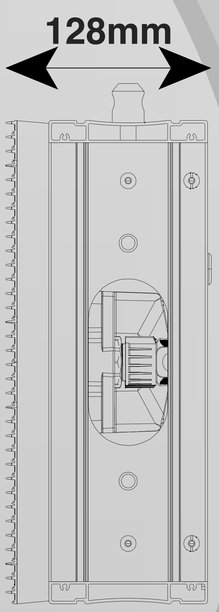
Cloud Management

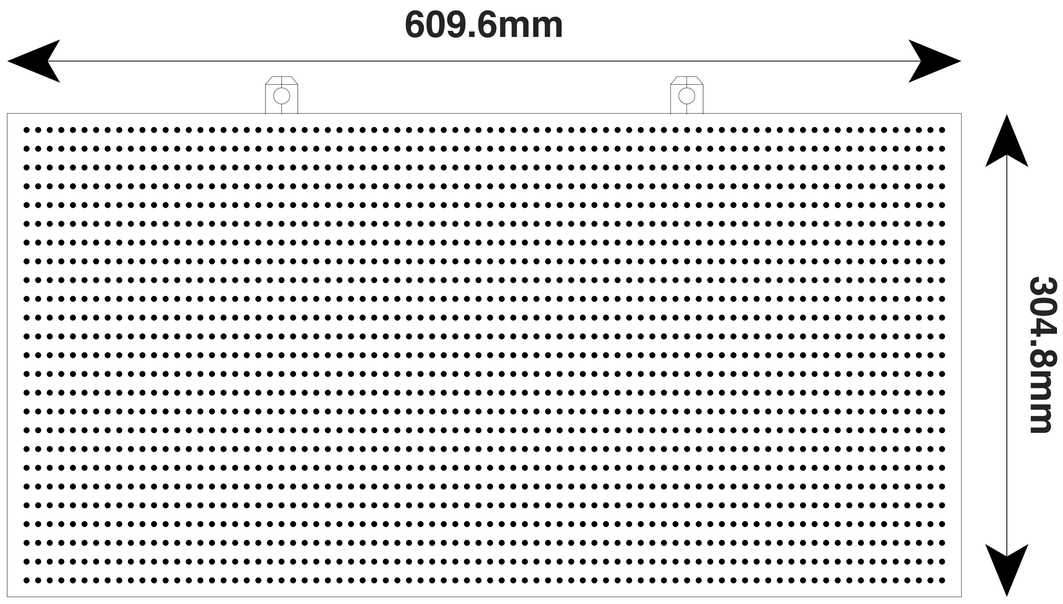
.....

In Holon's Name

The Compact, All-in-One LED Display Unit

Just as its name suggests, Holon represents a self-contained unit that is both complete and part of a greater whole. Each Holon module integrates power and control systems into a fully functional display unit—ready to be freely assembled into larger screens.
The entire setup process is crane-free and can be completed by hand, making installation fast, Flexible, and highly efficient.



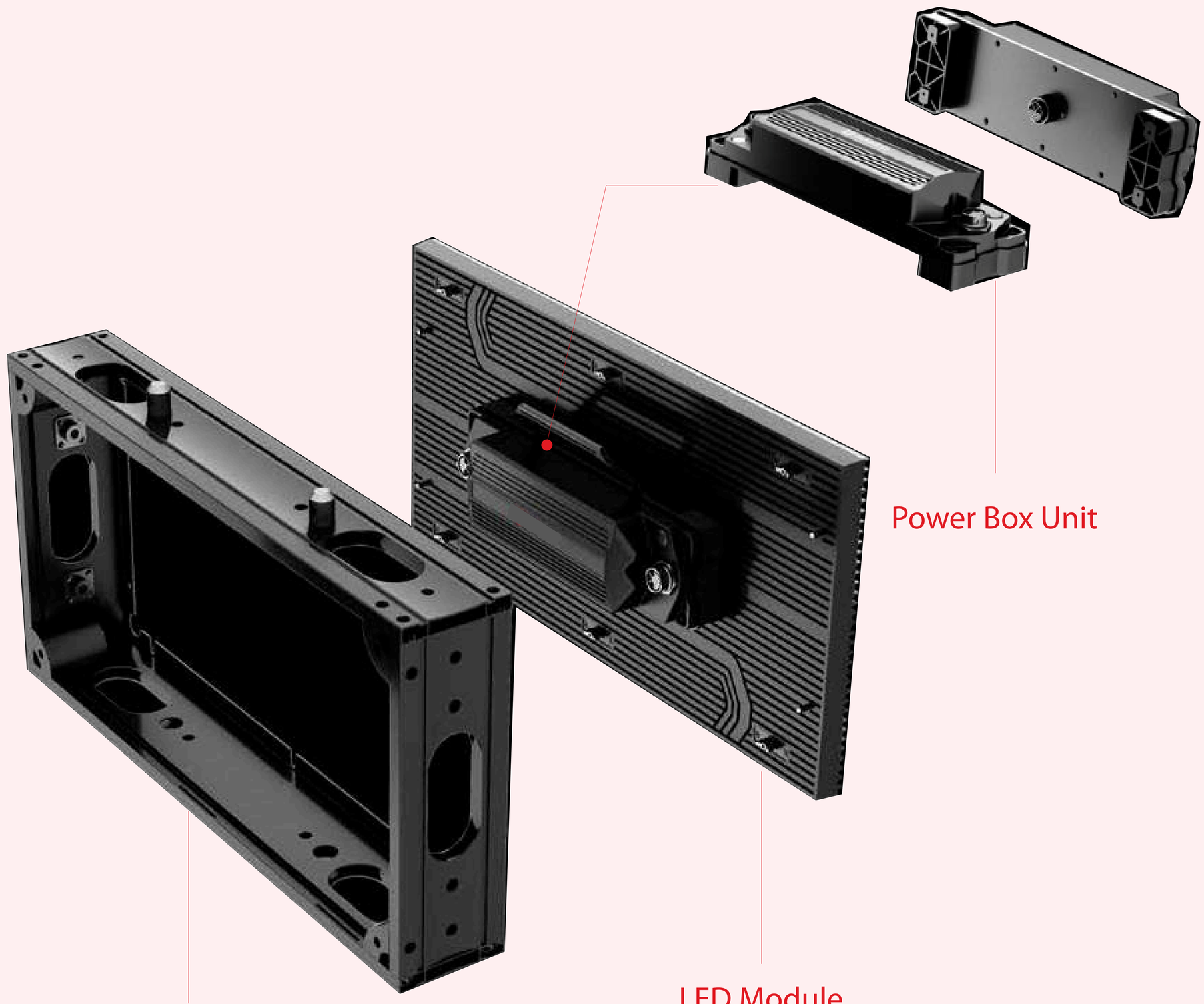


Small Size: 1' × 2' (304.8mm × 609.6mm)

Light Weight: 6.2KG (including frame)

Simple, Intuitive Components Layout

Even non-professionals can understand the layout at a glance—ensuring a smooth and error-free installation experience.

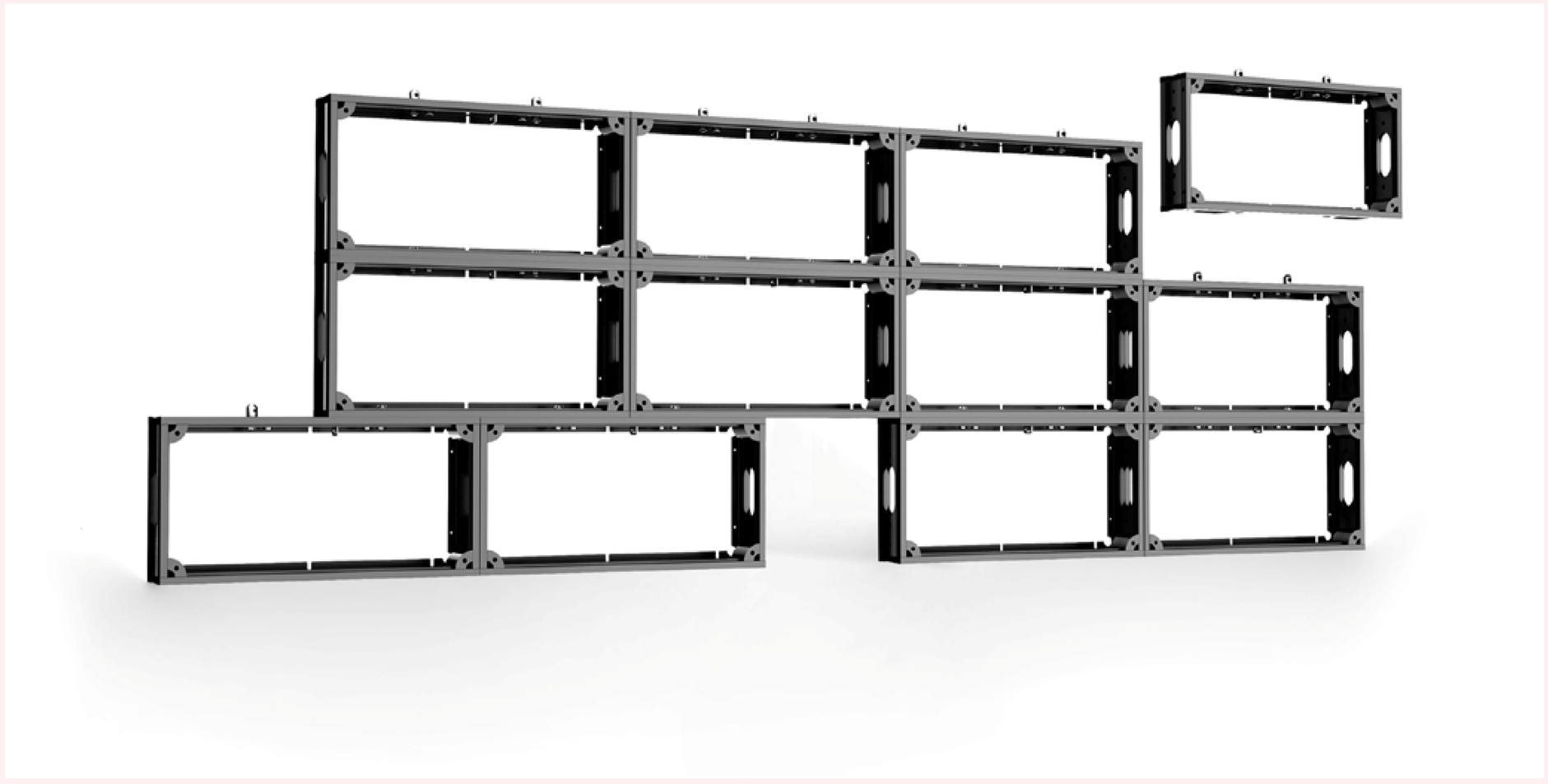


Quick Deployment

Whether you're installing a brand-new EMC, retrofitting a traditional sign, or upgrading an existing outdoor LED display—Holon makes it fast and effortless.
With no lifting equipment required, a single person can deploy a small to mid-size display within a few hours saving time, labor, and logistical complexity.

Limitless Applications

Thanks to its frame-separated design and fully functional compact modules, Holon seamlessly adapts to diverse installation scenarios, delivering unmatched versatility to bring any creative vision to life.



Digital Signages

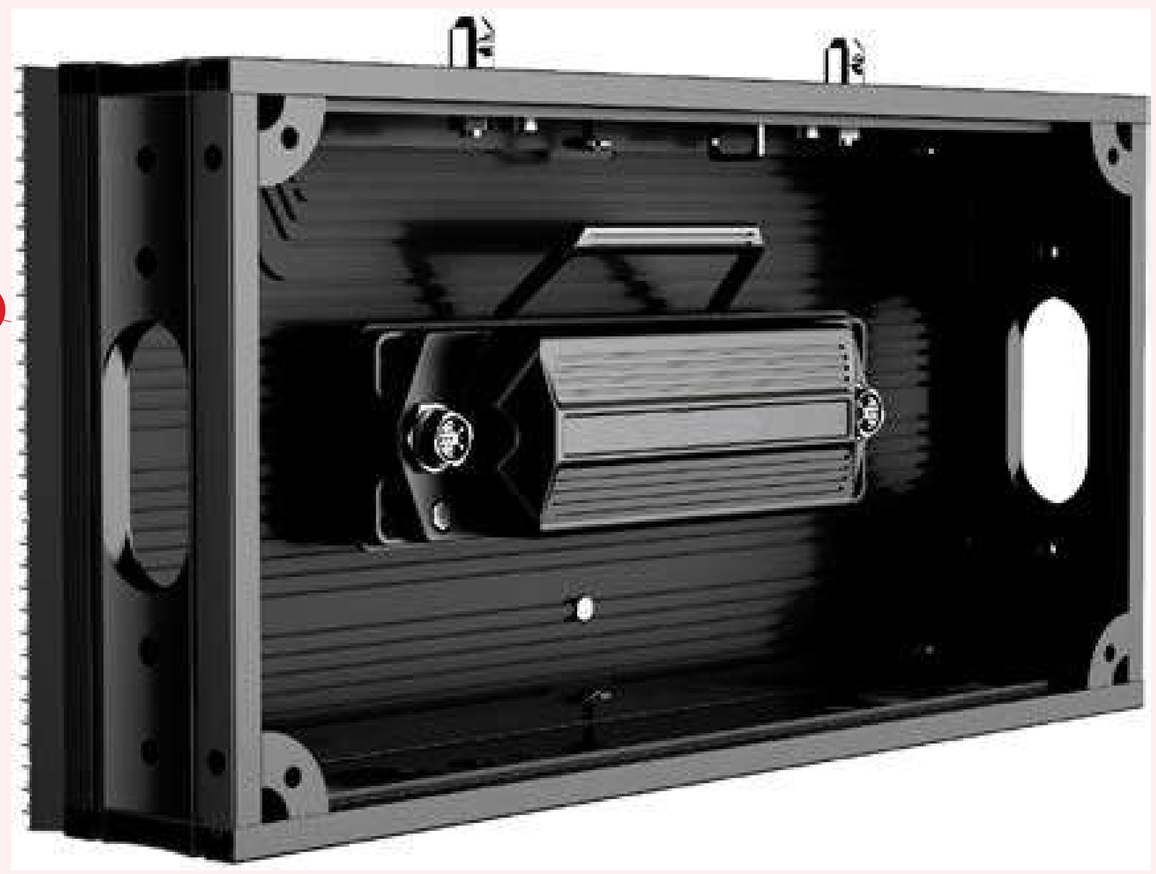
Mobile LED Trailers

Light Pole Displays

Dynamic Tickers and Ribbons

Enhanced Visual Performance

Holon is optimized for premium image clarity and outdoor readability.

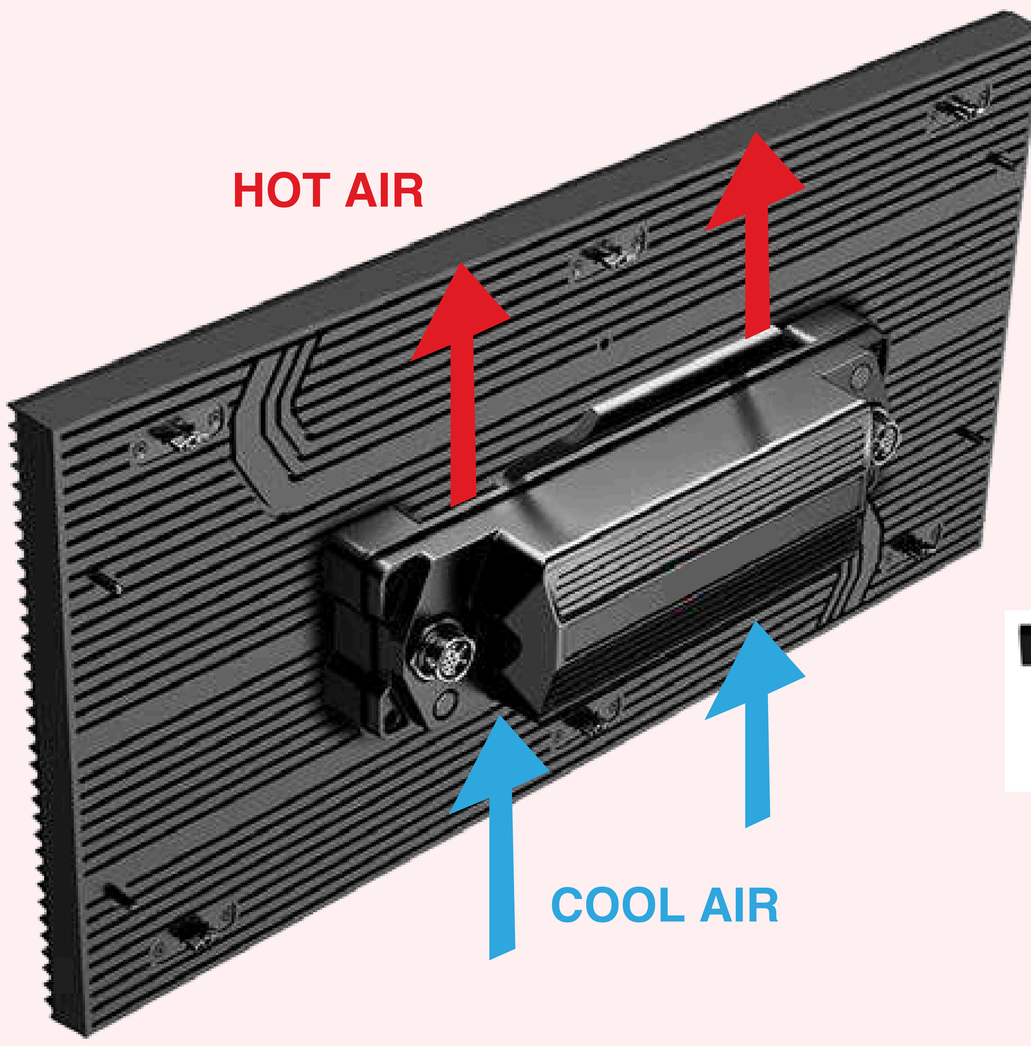


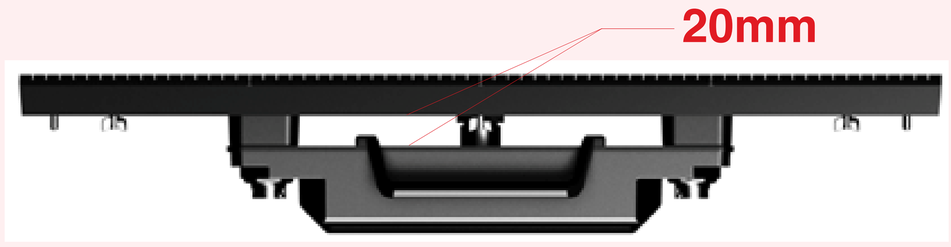
Sunlight-Blocking Louvers

Extended louvers shield the LEDs from direct sunlight—enhancing contrast and maintaining clarity even in bright outdoor environments.

Robust Fanless Heat Management

Effective thermal control is critical for outdoor LED displays—especially in fanless systems. Holon is designed with a meticulously engineered thermal strategy to ensure long-term reliability in demanding environments.





Low Power, Low Heat

Each Holon module typically consumes only **~30W**, reducing heat generation at the source.

High Efficiency, Low Load

High-efficiency power supplies run at under **50%** load, minimizing thermal stress and extending lifespan.

No Heat Accumulation

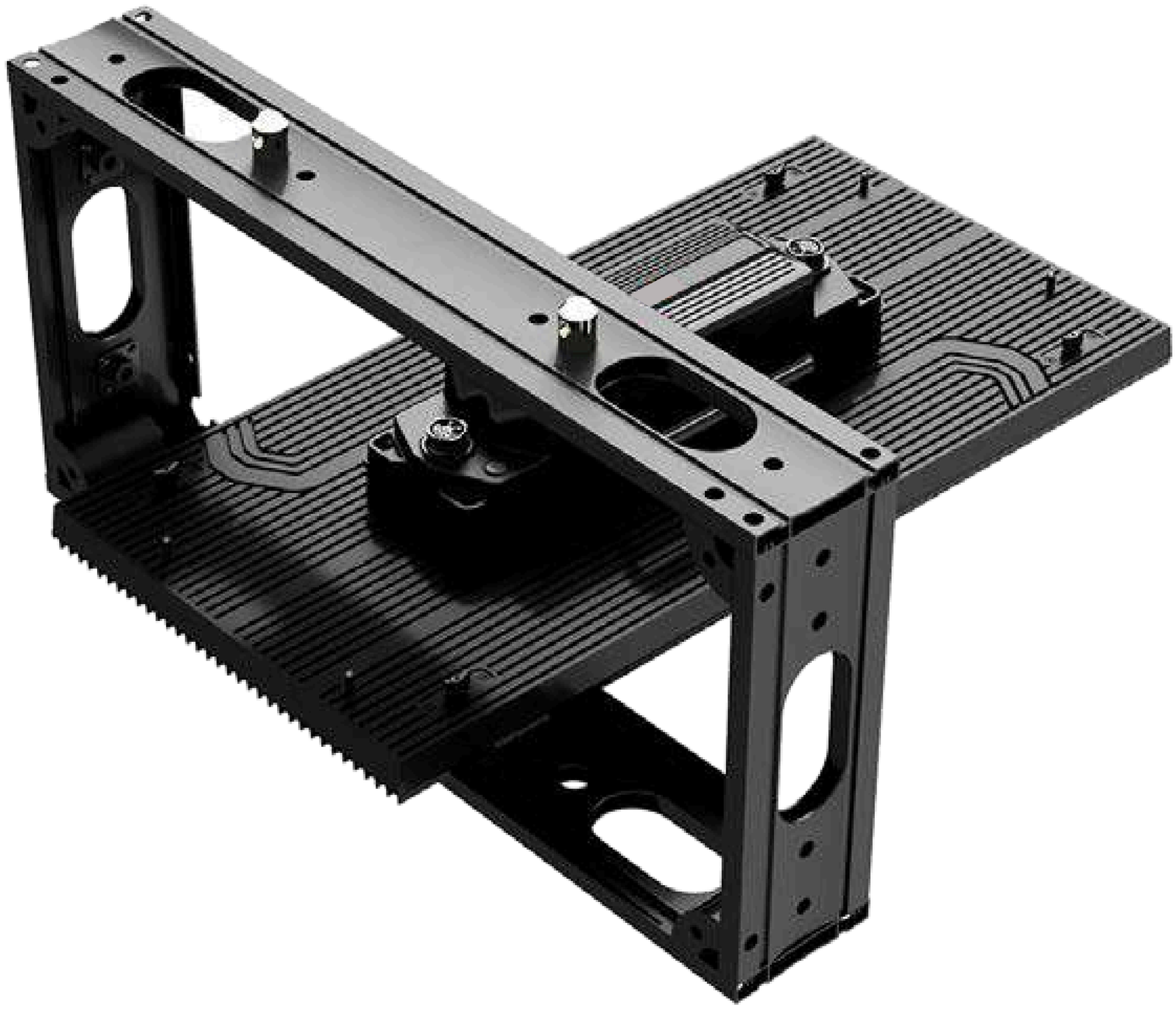
A 20mm air gap separates the power box from the module, preventing heat stacking and enabling natural airflow.

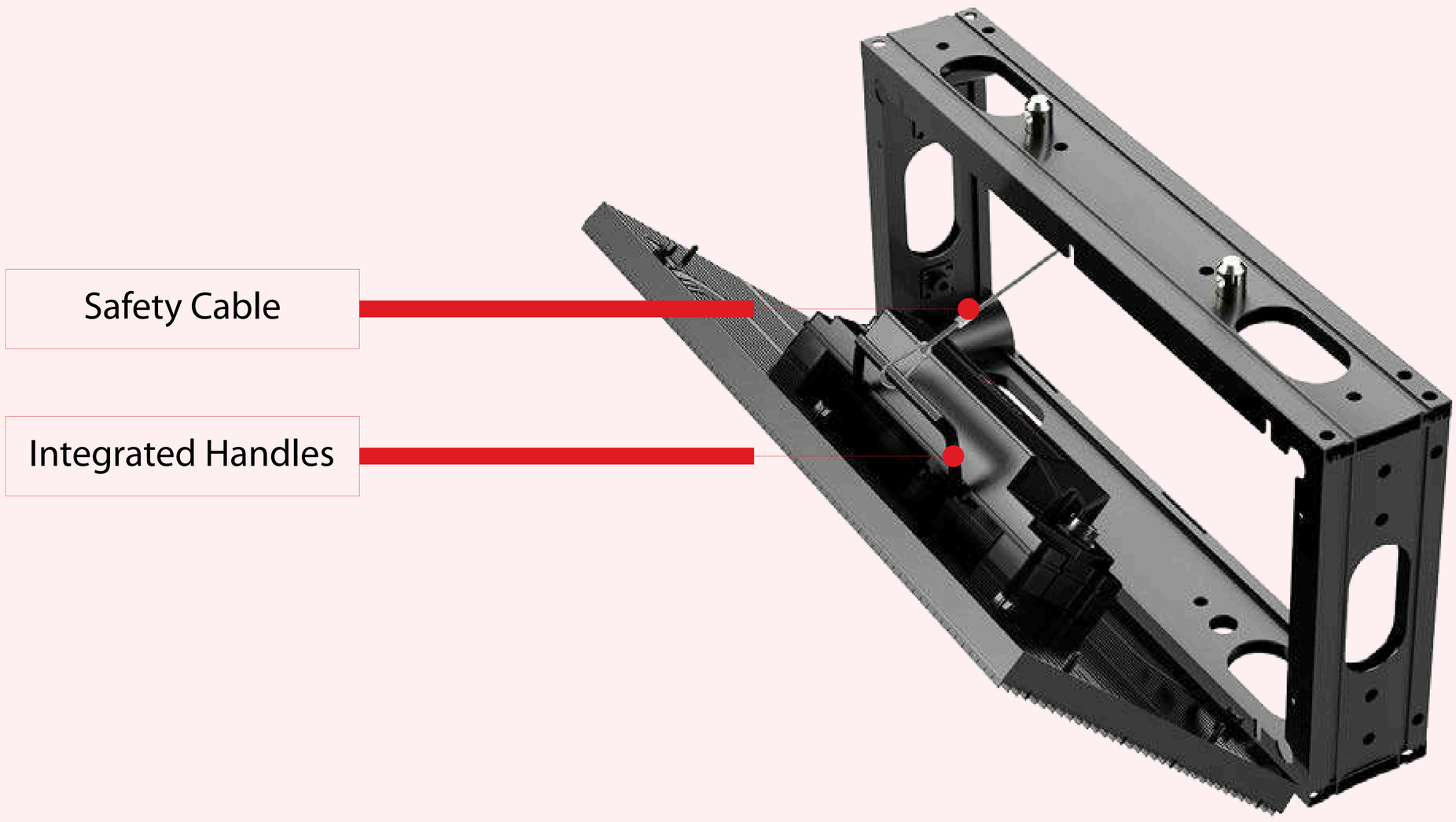
Optimized Heat Dissipation

The power supply is bonded with heat-conductive silicone and tightly pressed against a thick aluminum backplate, maximizing thermal conduction and surface dissipation.

Easy Maintenance

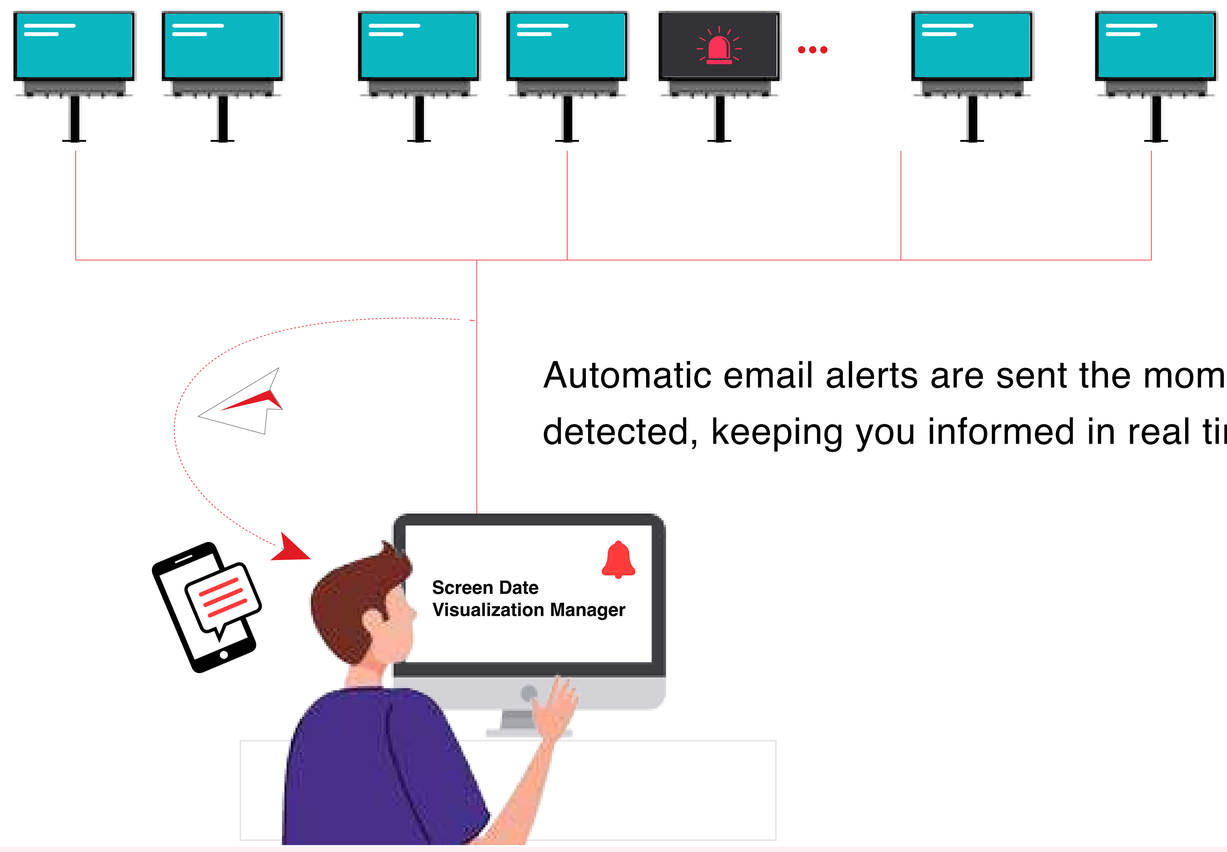
Modules are fully accessible from both front and rear.
Each unit is equipped with safety cables and integrated handles for a safe, efficient, and tool-free maintenance experience.



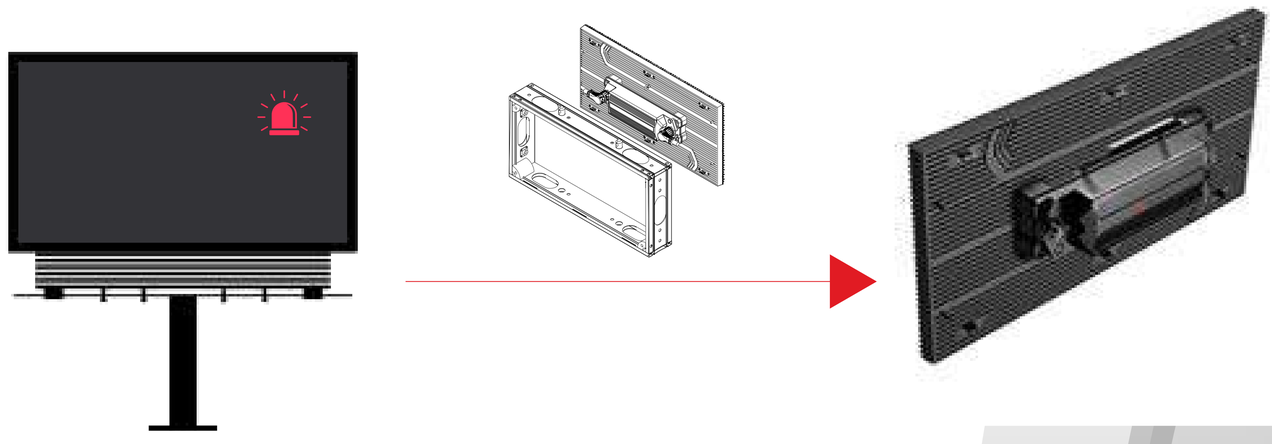


Remote Monitoring, Centralized Control

With Holon's centralized cloud platform, you can monitor the entire screen system anytime, anywhere—from content playback and power status to signal flow and even the health of each individual pixel.



Automatic email alerts are sent the moment a fault is detected, keeping you informed in real time.

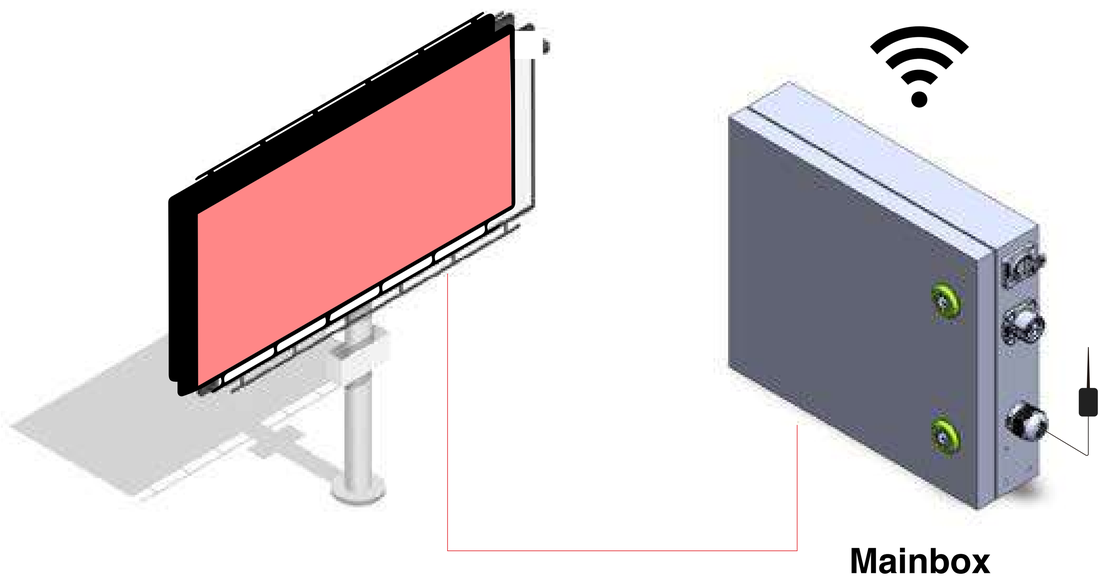


Full Module Replacement, No Onsite Debugging

When an issue arises, there's no need for diagnostics on site.
Simply swap out the full display module, saving time, labor, and operational complexity.

Mainbox – Integrated Control & Power Hub

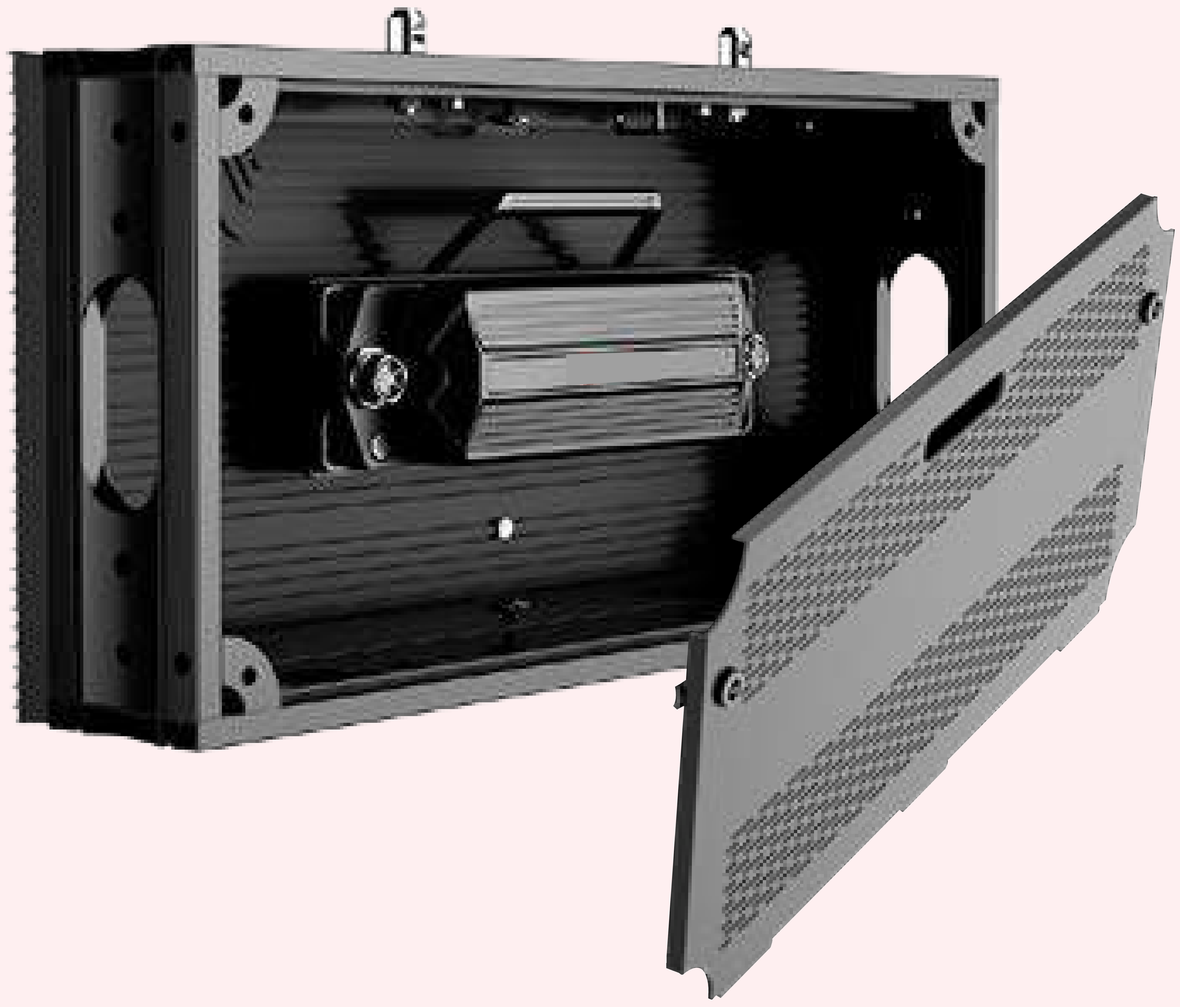
The Mainbox combines controller, data and power distribution into a single compact enclosure.
It simplies system wiring and speeds up installation—ideal for small-format displays.



Built-in LED Controller | Power Distribution Module

Optional 4G / Wi-Fi Communication | Brightness Sensor

Outdoor-Ready | Wall- or Frame-Mountable



Ventilated Back Cover (Optional)

The perforated rear panel enhances airflow and helps block rear solar exposure—reducing heat buildup from direct sunlight.
Recommended for single-sided displays to improve passive cooling performance.

Flexible Inventory Planning

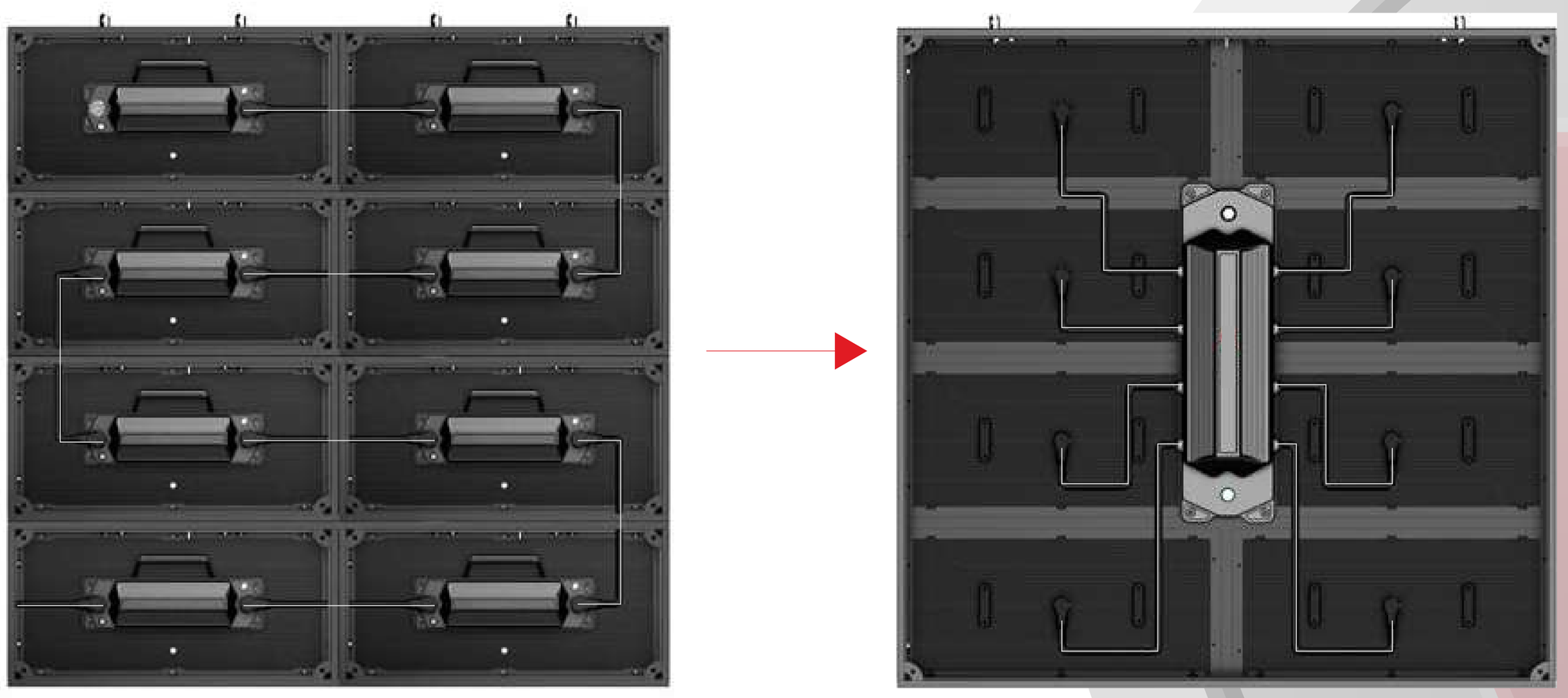
The power box and structural frame are compatible with all pixel pitches—supporting efficient inventory strategies and streamlined spare parts management.

Locally Built Frames

Holon modules can be mounted onto locally fabricated frames without waterproofing concerns—ideal for diverse site conditions.

Holon Max – For Large-Format Displays

The optional Holon Max system provides centralized power and signal distribution, optimized for larger displays with enhanced efficiency and reduced overall cost.



Holon

Holon Max

Specifications

Pixel Pitch (Resolution)	6.35 mm	8.964 mm
LED Package Type	SMD+Lens	SMD+Lens
Pixels/m^2 (Density)	24,800	12,444
Module Dimensions	1'x2' (304.8x609.6mm)	1'x2' (304.8x609.6mm)
Module Matrix	96x48	68x34
Module Weight	8.8LB (4KG)	8.8LB (4KG)
Driving Method	1/6 constant current	1/2 constant current
Refresh Rate	≥3,840 Hz	≥3,840 Hz
Video Frame Rate	60 frames/second	60 frames/second
Grayscale	65,536 (281 trillion colors)	65,536 (281 trillion colors)
Color Depth	16 bit	16 bit
Contrast Ratio	26,000 : 1	26,000 : 1
Brightness	≥10,000 NITS	≥10,000 NITS
Brightness Control	256 levels	256 levels
Ideal Viewing Range	18′ or greater	22′ or greater
Ideal Viewing Angle	120°(H) / 100°(V)	120°(H) / 100°(V)
Max. Power Consumption	54W/ft^2 (580W/m^2)	54W/ft^2 (580W/m^2)
Avg. Power Consumption	18W/ft^2 (195W/m^2)	18W/ft^2 (195W/m^2)
Input Voltage	90 - 264VAC	90 - 264VAC
Ingress Protection	IP65	IP65
Operating Temperature	-40°F - +140°F (-40 ℃ - +60 ℃)	-40°F - +140°F (-40 ℃ - +60 ℃)
MTBF	>5,000 hours	>5,000 hours
LED Life - Span	100,000 hours	100,000 hours
Cabinet Material	Aluminum Extrusion	Aluminum Extrusion
Cabinet Weight	14LB/pcs (6.2KG/pcs)	14LB/pcs (6.2KG/pcs)

* Specifications are based on standard Holon configurations and are subject to change without prior notice.

Pixel pitches from **3.0mm to 4.0mm** are currently in development.
Contact us to stay informed about upcoming releases.

FCC INTERFERENCE STATEMENT

Federal Communications Commission Interference Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit dierent from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.