



Commercial Display Large Screen 108"/136"/163"

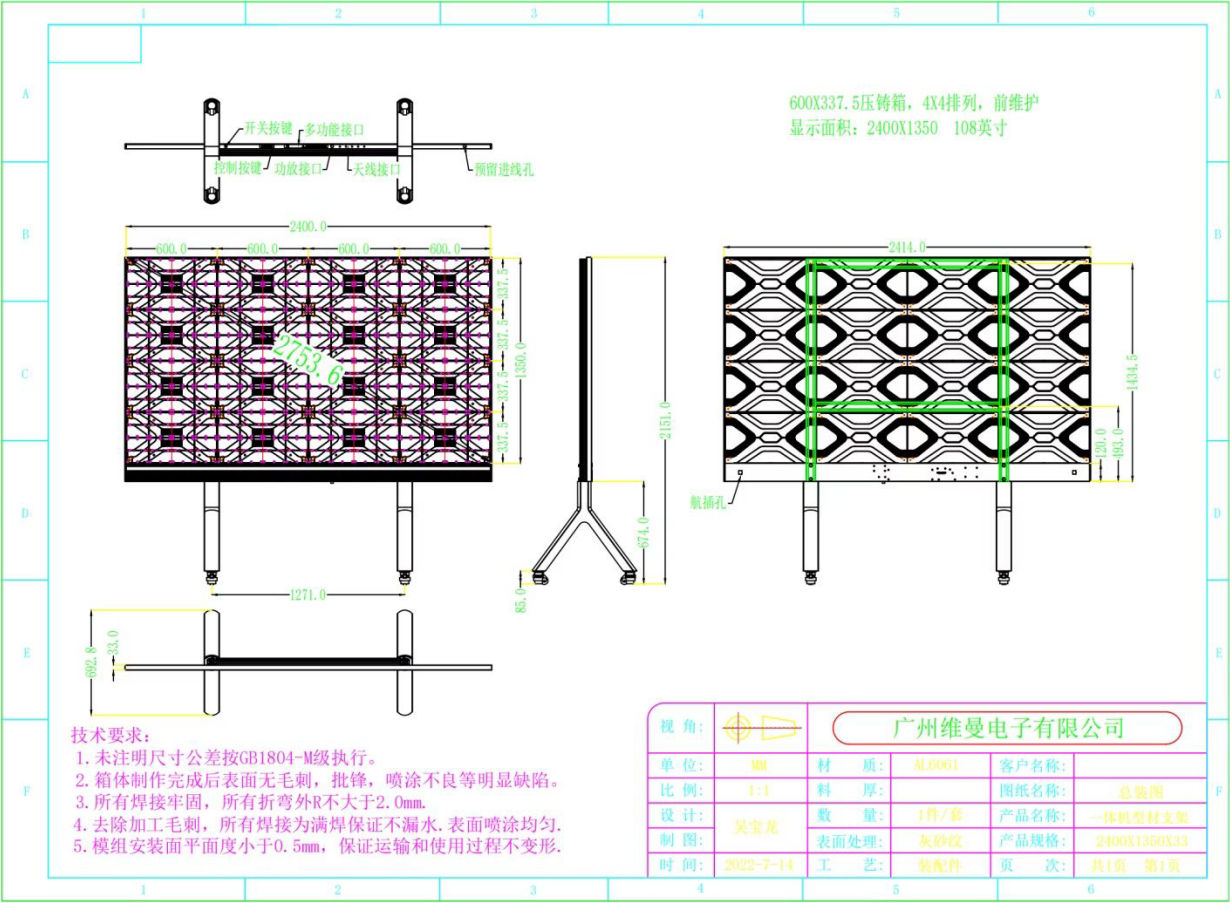
Specification

Micro Series — Complete Specification Table

Technical parameters at T = 25°C. All five model variants are detailed below. For the most current specifications, please consult our technical team prior to ordering.

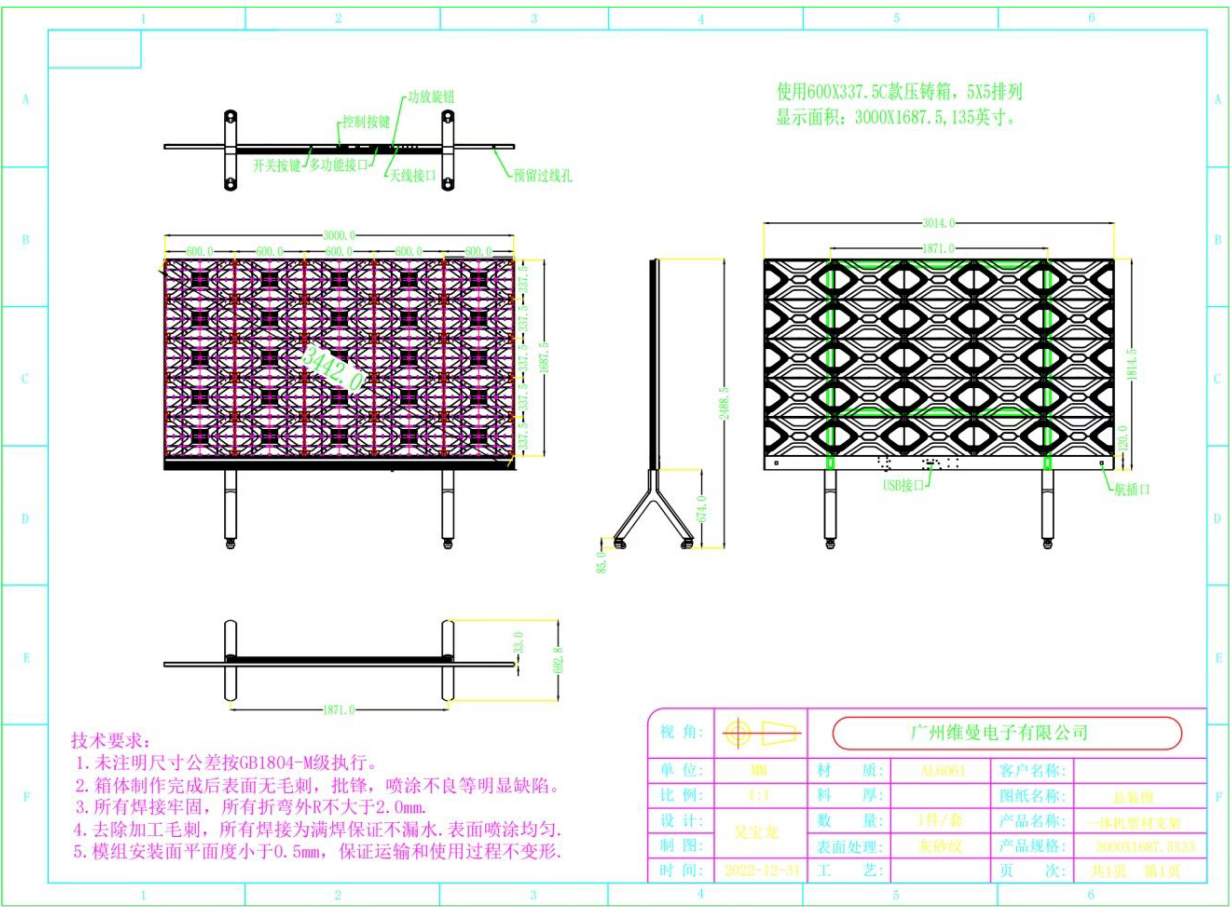
Parameter	MLE108-HD	MLE136-HD	MLE163-FD	MLE163-HD	MLE163-KD
Diagonal Size	108 inch	136 inch	163 inch	163 inch	163 inch
Pixel Pitch (mm)	1.25	1.56	1.56	1.25	0.93
Encapsulation Type	COB Flip-Chip	COB Flip-Chip	COB Flip-Chip	COB Flip-Chip	COB Flip-Chip
Scanning Method	1/45S	1/54S	1/54S	1/45S	1/60S
Resolution	1920×1080	2304×1296	2880×1620	3840×2160	3840×2160
Display Size (mm)	2400×1350	3000×1687.5	3600×2025	3600×2025	3600×2025
Installation Method	Movable floor stand	Movable floor stand	Movable floor stand	Movable floor stand	Movable floor stand
OPS Configuration (Optional)	i5-10200H / i7-10750H	i5-11260H / i7-11600H	i5-1235U / i7-1255U	i5-1235U / i7-1255U	i5-1235U / i7-1255U
OPS RAM / Storage	4G/128G	4G/128G	4G/128G	4G/128G	4G/128G
OPS Resolution Support	4K@60Hz	4K@60Hz	4K@60Hz	4K@60Hz	4K@60Hz
Memory Expansion	8G / 16G / 32G	8G / 16G / 32G	8G / 16G / 32G	8G / 16G / 32G	8G / 16G / 32G
Storage Expansion	512G / 1TB	512G / 1TB	512G / 1TB	512G / 1TB	512G / 1TB
Brightness	1-600 cd/m ² (auto/manual)	1-600 cd/m ² (auto/manual)	1-600 cd/m ² (auto/manual)	1-600 cd/m ² (auto/manual)	1-600 cd/m ² (auto/manual)
Brightness Uniformity	≥99.8%	≥99.8%	≥99.8%	≥99.8%	≥99.8%
LED Centre Distance Deviation	<1%	<1%	<1%	<1%	<1%
Colour Temperature	1000-15000K adjustable	1000-15000K adjustable	1000-15000K adjustable	1000-15000K adjustable	1000-15000K adjustable
Viewing Angle (H/V)	≥179°/179°	≥179°/179°	≥179°/179°	≥179°/179°	≥179°/179°
Contrast Ratio	100000:1	100000:1	100000:1	100000:1	100000:1
Input Interfaces	2×HDMI 1.3, 1×USB 2.0, 1×USB 3.0	2×HDMI 1.3, 1×USB 2.0, 1×USB 3.0	2×HDMI 1.3, 1×USB 2.0, 1×USB 3.0	2×HDMI 1.3, 1×USB 2.0, 1×USB 3.0	2×HDMI 1.3, 1×USB 2.0, 1×USB 3.0
Output Interfaces	1×HDMI 1.3 LOOP, 1×SPDIF, 2×3.5mm audio	1×HDMI 1.3 LOOP, 1×SPDIF, 2×3.5mm audio	1×HDMI 1.3 LOOP, 1×SPDIF, 2×3.5mm audio	1×HDMI 1.3 LOOP, 1×SPDIF, 2×3.5mm audio	1×HDMI 1.3 LOOP, 1×SPDIF, 2×3.5mm audio
Additional Interfaces	1×Type-C (260W network module), 1×network module, 1×relay module, 1×button module, 1×USB module	1×Type-C (260W network module), 1×network module, 1×relay module, 1×button module, 1×USB module	1×Type-C (260W network module), 1×network module, 1×relay module, 1×button module, 1×USB module	1×Type-C (260W network module), 1×network module, 1×relay module, 1×button module, 1×USB module	1×Type-C (260W network module), 1×network module, 1×relay module, 1×button module, 1×USB module
Wireless Screen Mirroring	4 channels (phone, PC, tablet)	4 channels (phone, PC, tablet)	4 channels (phone, PC, tablet)	4 channels (phone, PC, tablet)	4 channels (phone, PC, tablet)
Internal Storage	2GB+32GB / 4GB+32GB (optional)	2GB+32GB / 4GB+32GB (optional)	2GB+32GB / 4GB+32GB (optional)	2GB+32GB / 4GB+32GB (optional)	2GB+32GB / 4GB+32GB (optional)
Maximum Power	1200W	1800W	2200W	2200W	2200W
Average Power	600W	900W	1000W	1000W	1000W
Drive Method	Constant Current Drive	Constant Current Drive	Constant Current Drive	Constant Current Drive	Constant Current Drive
Frame Rate	50/60/120Hz	50/60/120Hz	50/60/120Hz	50/60/120Hz	50/60/120Hz
Grey Scale	16-22 bit	16-22 bit	16-22 bit	16-22 bit	16-22 bit
Refresh Rate	≥3840Hz	≥3840Hz	≥3840Hz	≥3840Hz	≥3840Hz
Service Life	100,000 hours	100,000 hours	100,000 hours	100,000 hours	100,000 hours
Operating Temperature	0°C - 60°C	0°C - 60°C	0°C - 60°C	0°C - 60°C	0°C - 60°C
Overall Dimensions (W×H×D mm)	2452.5×1402.5×66	3052.5×1833.8×66	3614×2152×33 (cabinet) / 3614×2152×692.8 (A-frame base)	3614×2152×33 (cabinet) / 3614×2152×692.8 (A-frame base)	3614×2152×33 (cabinet) / 3614×2152×692.8 (A-frame base)
Control Method	Network / Remote (Bluetooth 5.0)	Network / Remote (Bluetooth 5.0)	Network / Remote (Bluetooth 5.0)	Network / Remote (Bluetooth 5.0)	Network / Remote (Bluetooth 5.0)
Weight incl. Mobile Stand (kg)	164	200	245	245	245

108-Inch Touch All-in-One Display — MLE108-HD



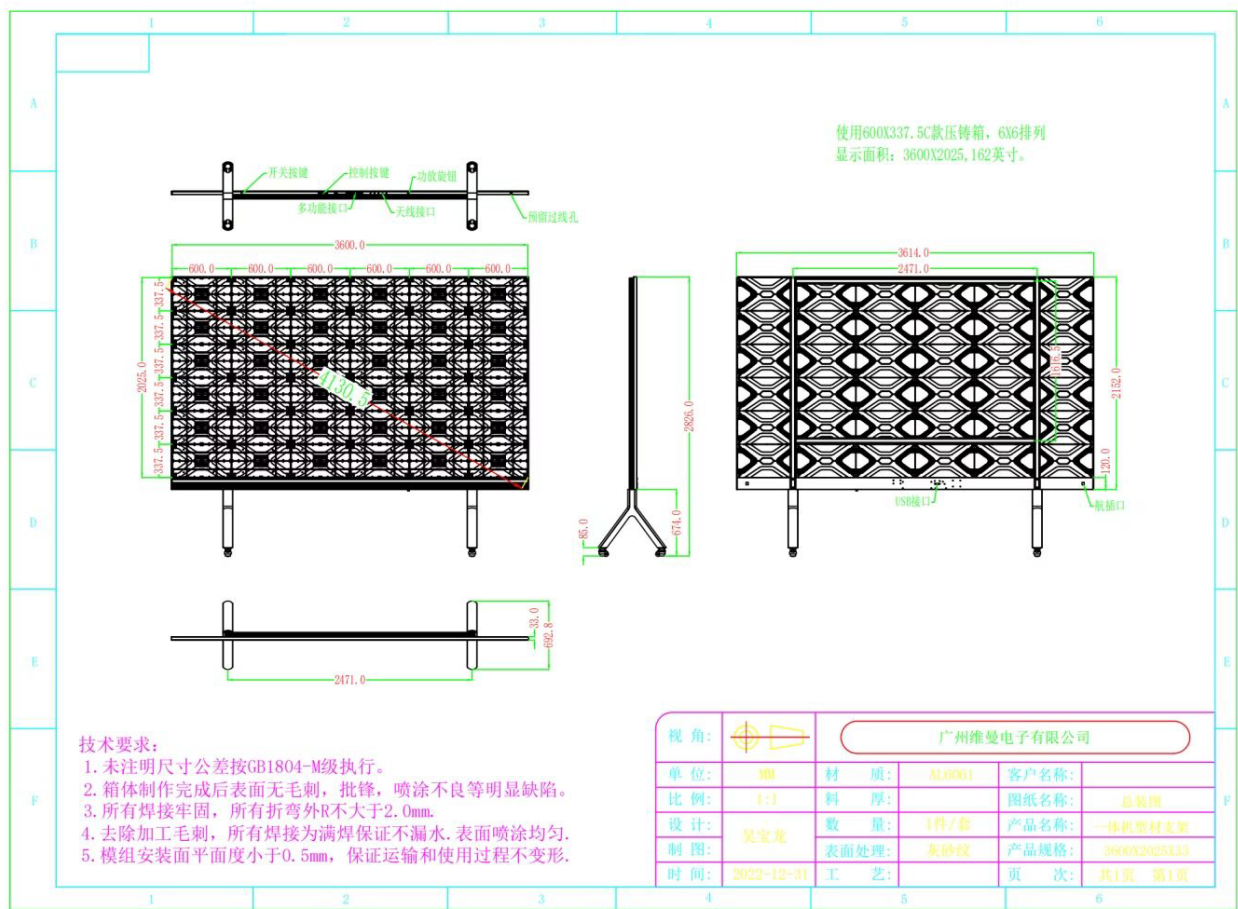
The MLE108-HD is the entry model in the Micro Series, offering a 108-inch diagonal display with 1.25 mm COB flip-chip pixel pitch and Full HD resolution (1920×1080). The display area measures 2400×1350 mm, housed within an overall cabinet of 2452.5×1402.5×66 mm. Weighing 164 kg with the mobile stand, it is supplied with a movable floor stand as standard. OPS computer configuration is available as an optional upgrade (i5-10200H or i7-10750H, 4G/128G, 4K@60Hz). Internal storage options are 2GB+32GB or 4GB+32GB (optional). All dimensions shown are for reference only; actual supplied product may vary. Please consult our technical team before ordering.

136-Inch Touch All-in-One Display — MLE136-HD



The MLE136-HD delivers a 136-inch diagonal display with 1.56 mm pixel pitch and a resolution of 2304×1296. The display area measures 3000×1687.5 mm, with an overall cabinet dimension of 3052.5×1833.8×66 mm. Total weight with mobile stand is 200 kg. The optional OPS computer is configured with an i5-11260H or i7-11600H processor (4G/128G, 4K@60Hz). Internal storage options are 2GB+32GB or 4GB+32GB (optional). Maximum power consumption is 1800W; average power is 900W. All dimensions shown are for reference only; actual supplied product may vary. Please consult our technical team before ordering.

163-Inch Touch All-in-One Display — MLE163 Series



The 163-inch platform is available in three variants — MLE163-FD (1.56 mm pixel pitch, 2880×1620 resolution), MLE163-HD (1.25 mm pixel pitch, 3840×2160 resolution), and MLE163-KD (0.93 mm pixel pitch, 3840×2160 resolution). All three share a display area of 3600×2025 mm and overall cabinet dimensions of 3614×2152×33 mm (cabinet thickness) / 3614×2152×692.8 mm (A-frame base thickness). Weight with mobile stand is 245 kg. Maximum power consumption is 2200W; average power is 1000W. The optional OPS computer is configured with an i5-1235U or i7-1255U processor (4G/128G, 4K@60Hz). Internal storage options are 2GB+32GB or 4GB+32GB (optional). All dimensions shown are for reference only; actual supplied product may vary. Please consult our technical team before ordering.

Product Features — System Integration & Connectivity



The Micro Series all-in-one unit integrates video processing, Android display control, wireless screen mirroring, power sequencing, HD signal input/output, and audio processing into a single chassis. The display aspect ratio is standard 16:9, ensuring proportional display of HD signals. Signal input interfaces include 2×HDMI 1.3, 1×USB 2.0, and 1×USB 3.0. Output interfaces include 1×HDMI 1.3 LOOP, 1×SPDIF digital audio output, 2×3.5mm audio, 1×Type-C (connecting network module, 260W load capacity), 1×network module, 1×relay module, 1×button module, and 1×USB module. Internal storage is 2GB+32GB or 4GB+32GB (optional). Wireless screen mirroring supports Windows, Mac, Android, and iOS platforms simultaneously, enabling wireless transmission of HD content from computers, phones, and tablets without cabling. The system supports multi-user or multi-signal simultaneous access with one-touch seamless signal switching and 2-picture or 4-picture split-screen display. Remote control operation is simple and convenient, enabling adjustment of brightness, colour temperature, contrast, and volume, signal source switching, and test mode selection.

Product Features — Touch, Maintenance & Installation



android



Windows7/10



The display module, power supply, and control mainboard support complete front maintenance and independent replacement without removing the bezel or stand. Single-point minimum touch object: finger, stylus, or other opaque object with diameter not less than 6 mm; multi-point minimum touch object: 8 mm. An OPS computer is supported as an optional internal PC module. Dual-system operation is available as an optional configuration. The standard A-frame stand supports multiple installation methods including movable floor stand, wall mounting, floor-standing cabinet, and ceiling suspension.

A-Frame Stand — Installation Effect



Product Application Scenarios



会议室



高管商洽室



高管办公室



培训室



报告厅



洽谈厅



众创空间



医疗会诊

The Micro Series is designed for high-impact commercial and institutional environments requiring ultra-large-format interactive display. Typical applications include corporate boardrooms, command and control centres, exhibition halls, educational institutions, broadcast studios, and large-format retail environments. The 16:9 aspect ratio, high refresh rate (≥ 3840 Hz), wide viewing angle ($\geq 179^\circ/179^\circ$), and multi-signal input capability make the system suitable for presentations, data visualisation, collaborative workflows, and live content display. Wireless screen mirroring supports simultaneous connection from up to four devices across Windows, Mac, Android, and iOS platforms.

Reliability Testing

All Micro Series units undergo comprehensive reliability testing in accordance with international standards. The table below documents all environmental, lifetime, and mechanical tests performed on LED emitters and finished LED cabinet assemblies. All tests achieved a pass result of 0 failures per 50 samples.

Category	Test Item	Reference Standard	Test Conditions	Duration	Acceptance
LED Emitter — Environmental	Temperature Cycling	JESD22-A104-A	-40°C → 25°C → 100°C → 25°C (30 min, 5 min, 30 min, 5 min)	100 cycles	0/50
LED Emitter — Environmental	Thermal Shock	JESD22-A106	-40°C ↔ 100°C (30 min, 30 min)	100 cycles	0/50
LED Emitter — Environmental	High-Temperature Storage	JIS C 7021 (1977) B-11	Ta = 60°C, RH = 90%	1000 hours	0/50
LED Emitter — Lifetime	Ambient Temperature Lifetime	JESD22-A108-A	Ta = 25°C, powered-on display state	1000 hours	0/50
LED Emitter — Lifetime	High-Temperature Lifetime	JESD22-A101	Ta = 85°C, RH = 85%, powered-on display state	1000 hours	0/50
LED Emitter — Mechanical	Mechanical Vibration	MIL-STD-883 Method 2007	20G, 20-2000 Hz, 4 cycles × 4 min each, X/Y/Z axes	—	0/50
LED Finished Cabinet — Environmental Storage	Low-Temperature Storage	GB2423.2	(-40 ± 2)°C for 4 h; restore at room temperature for 4 h; display mode and uniformity normal, no abnormal pixels	8 hours	0/50
LED Finished Cabinet — Environmental Storage	High-Temperature Storage	GB2423.2	(60 ± 2)°C for 4 h; restore at room temperature for 4 h; display mode and uniformity normal, no abnormal pixels	8 hours	0/50
LED Finished Cabinet — Ageing	Ambient Temperature Ageing	—	Ta = 25°C, 72 hours continuous powered-on display playback	72 hours	0/50
LED Finished Cabinet — Ageing	High-Temperature Ageing	GB2423.2-89	(40 ± 2)°C, powered operation 8 h, inspection every hour; display mode and uniformity normal, no abnormal pixels	8 hours	0/50
LED Finished Cabinet — Mechanical	Mechanical Vibration	GB6587.4-86	Vibration frequency 5 Hz → 55 Hz → 5 Hz, amplitude 0.19 mm	5 minutes	0/50

Usage Instructions, Cleaning & Storage

Operating Environment

- Indoor display only
- Avoid high-temperature, high-acid/alkali/salt environments
- Keep away from flammable materials, gases, and dust
- Operating temperature: -30°C to 60°C; optimal: -10°C to 40°C
- Storage temperature: -20°C to 80°C
- Avoid strong impacts and sharp objects during transport

Operation

- DC +5 V supply only (working voltage: 3.5–4.5 V); do not use AC supply; do not reverse polarity
- During warranty period, return to manufacturer or repair under authorised guidance
- Handle carefully during installation/removal; avoid tool impact on product
- Implement lightning and static protection; cabinet and steel structure must be earthed
- Do not cycle power continuously; allow minimum 1 minute between on/off operations
- Do not leave powered off long-term: use at least once per fortnight for 4 hours; in high-humidity environments, use at least once per week for 4 hours
- Do not display full-white maximum-brightness content for more than 30 minutes; dynamic video content is recommended

Cleaning

The HD display system employs advanced encapsulation technology. To clean the module surface, use a soft brush for gentle brushing. Cleaning agents may be applied directly to the LED module surface — convenient, safe, and efficient.

Moisture Protection & Storage

- After unpacking, store at temperature <30°C and humidity <80%
- If unused for more than 3 days: pre-heat at 30%–50% brightness for 4–8 hours before normal operation (80%–100% brightness)
- If unused for more than 7 days: pre-heat at 30%–50% brightness for 12 hours or more before normal operation (80%–100% brightness)

 **Pre-heat Procedure:** Pre-heat → Normal Use. This process removes moisture and ensures abnormal-free operation.