

Product Specifications

**55-inch vertical screen air-cooled
standard model**

Model: DZ550HS-2000



Waterproofing



High definition



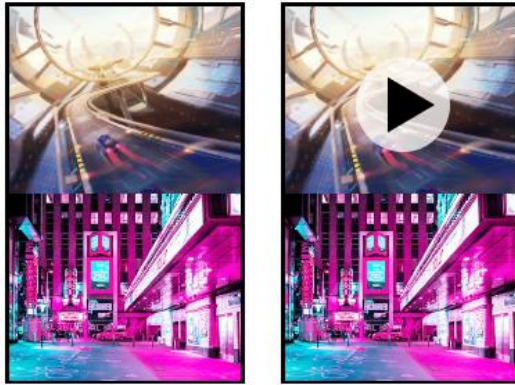
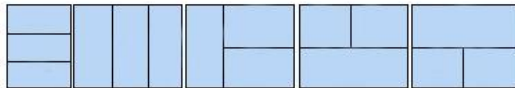
Heat resisting work



Low temperature
resistant

INTELLIGENT SPLIT SCREEN

A variety of split screen modes are available,
videos and pictures can be played synchronously



MULTIPLE PROTECTION



LEVEL 3 ANTI-THEFT



TEMPERED GLASS



WATERPROOF



LEAKAGE PROTECTION



TEMPERATURE
CONTROL SYSTEM



PHOTOSENSITIVE
FUNCTION

Chapter 1: Product description

This product is suitable for all outdoor environments. It has the characteristics of waterproof, dust-proof, moisture-proof, explosion-proof, anti-theft, lightning protection, high-definition and high brightness, and the brightness can reach $1500\text{cd}/\text{m}^2$ to $3000\text{cd}/\text{m}^2$. The brightness can be automatically adjusted according to the environment to reduce light pollution. The intelligent temperature control system can automatically adjust the heat dissipation effect of the equipment according to the internal temperature of the equipment. The timer switch can be set by day, week, and month. The equipment protection level can reach IP55. The equipment also has three-level lightning protection and leakage protection. It can be widely used in various harsh and complex outdoor environments, with a wide range of applications: commercial areas CBD, telephone booths with large traffic, bus stops, airports, railway stations, docks, park squares, leisure places, tourist attractions, high-end communities, catering industries, schools, urban roads, real estate buildings, government and corporate publicity, etc.; with the application software, various industry applications can be realized...

Chapter 2: Detailed description of performance

1. Structure appearance

- ◆ Ultra-narrow frame, ultra-thin structure design, thickness is only 135mm, beautiful and high-end appearance.
- ◆ Shell design: The shell is made of 1.0-2.5mm high -quality galvanized sheet, sprayed with outdoor special powder, and has outdoor corrosion protection for more than 7 years.
- ◆ Waterproof design: The shell structure is designed with waterproof grooves and air inlet and outlet waterproof mazes to meet the IP55 protection level .
- ◆ Dust-proof design: The air inlet and outlet are designed with special dust-proof filters (medium and high-efficiency dust-proof filters) to filter out dust in the air and prevent mosquitoes and other insects from entering the machine.
- ◆ High-transmittance glass: The protective tempered glass in front of the entire screen is made of 6mm high-transmittance fully tempered glass with a light transmittance coefficient of $>95\%$.
- ◆ Anti-theft design: Equipped with anti-theft door lock (padlock can be installed for double anti-theft) to truly ensure safety and anti-theft . The fixing method is bottom expansion screw fixing or embedded parts fixing .
- ◆ Modular design, flexible configuration and easy maintenance .
- ◆ The color can be customized, the default is sand black

2. Display section

- ◆ Using imported LCD panels and self-developed LED backlight technology, it can achieve low power consumption, low heat, high brightness and other characteristics compared with products on the market. The default brightness is $2000\text{cd}/\text{m}^2$ (too low brightness is unclear, too high brightness is dazzling and consumes a lot of power).
- ◆ Intelligent brightness adjustment system: The screen brightness is intelligently adjusted according to the ambient light, so that users can watch programs clearly/comfortably at different times, protecting their eyes while achieving energy saving.
- ◆ High-definition and high-brightness: Ultra-high-definition LCD screen with a resolution of up to $1920*1080$ (optional 4k resolution), contrast ratio up to 3000:1, full-viewing angle display, suitable for multi-angle viewing

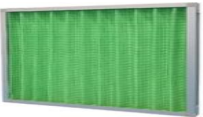
3. Electrical performance

- ◆ This product uses Taiwan Mean Well industrial-grade switching power supply, comes with a cooling fan, and has the characteristics of stable performance and long service life .
- ◆ Protection configurations include leakage protection switch , three-level lightning protection , AC contactor , etc.
- ◆ Timer : It uses a big brand intelligent microcomputer time control switch, with Chinese and English options . It can set 16 groups of timed on and off times , and can set the timed on and off times by day, week, or month .
- ◆ The intelligent temperature control system controls the heat dissipation. It can intelligently adjust the internal air and external air of the whole machine for real-time circulation according to the internal temperature of the advertising machine. A filter is installed at the air inlet to prevent sand and dust from entering .

Chapter 3:Detailed parameter table

Component		Detailed description	Remark
Defend water outside shell	Shell	Using 1.2-2.5mm SGCC high quality galvanized steel plate	
	Surface treatment	The inner layer is sprayed with zinc-rich base powder and the surface is sprayed with outdoor special powder	
	Protection level	IP55/ IP65	
	Protective glass	6MM high-transparency fully tempered explosion-proof glass (AG anti-glare/AR anti-ultraviolet optional)	Default ultra white wave
High Brightness LCD Screen	Size	55 inches	
	Resolution	1920 (RGB) * 1080 (FHD), optional 3840 * 2160 (4K)	
	Display area	1213 *684mm	
	Brightness	20 00 cd/m ²	
	Zoom	16:9	
	Viewing angle	178°*178°*178°*178°	
	Response time	8ms	

	Backlight mode	LED direct backlight: It uses LED backlight with a lifespan of 50,000 hours, is environmentally friendly and energy-saving, has high dynamic contrast, and displays clearer images; Combined with the heat dissipation solution, the temperature is precisely controlled, and the display screen works 7*24 hours without brightness attenuation	
Brightness adjustment	Intelligent photosensitivity	The built-in photosensitive probe can automatically adjust the brightness of the LCD display screen according to the intensity of outdoor light. The LED backlight control and sensing core technology improves the sensitivity of light transmission and effectively identifies, controls and adjusts the brightness of the LED backlight.	
Speaker		2*10W waterproof column speaker	
Electricity control System	power supply	12V/24V Taiwan Mean Well industrial-grade switching power supply, stable and reliable power supply	
	Time switch	Support 16 groups of timed on/off, can be set repeatedly, and can be set on/off by day, week, or month	
	Lightning protection	Level 3 lightning protection, protecting against indirect lightning, direct lightning or other transient overvoltage surges	
	Leakage protection switch	When a leakage fault occurs in the equipment or a fatal electric shock occurs, disconnect the circuit immediately.	
Cooling system	Cooling by design	Adopt intelligent direct ventilation (forced air cooling) cooling system and professional heat dissipation design	
	Applicable environment	The equipment can work normally in outdoor environment of -20℃ to +45℃	
	Energy saving	Intelligent temperature control and cooling system, automatically adjusting wind speed and volume	

	dust-proof	High-precision filtration system blocks 99% of dust particles to ensure air cleanliness	
Power consumption		Power consumption 100W-430W	
Input Power		AC 10 0V -240V (matched according to actual conditions)	
Operating temperature		-20 °C --+ 45 °C	
Working humidity		5%--95%	
Bare metal size	Bare metal dimensions (H x W x D)	2000 mm x 800 mm x 135 mm /500 mm (base)	
Packing Specifications	Optional	Depending on the packaging method, the actual product shall prevail (carton, wooden box, wooden frame)	
Product testing		Waterproof test, high and low temperature aging test, simulated sunlight test	

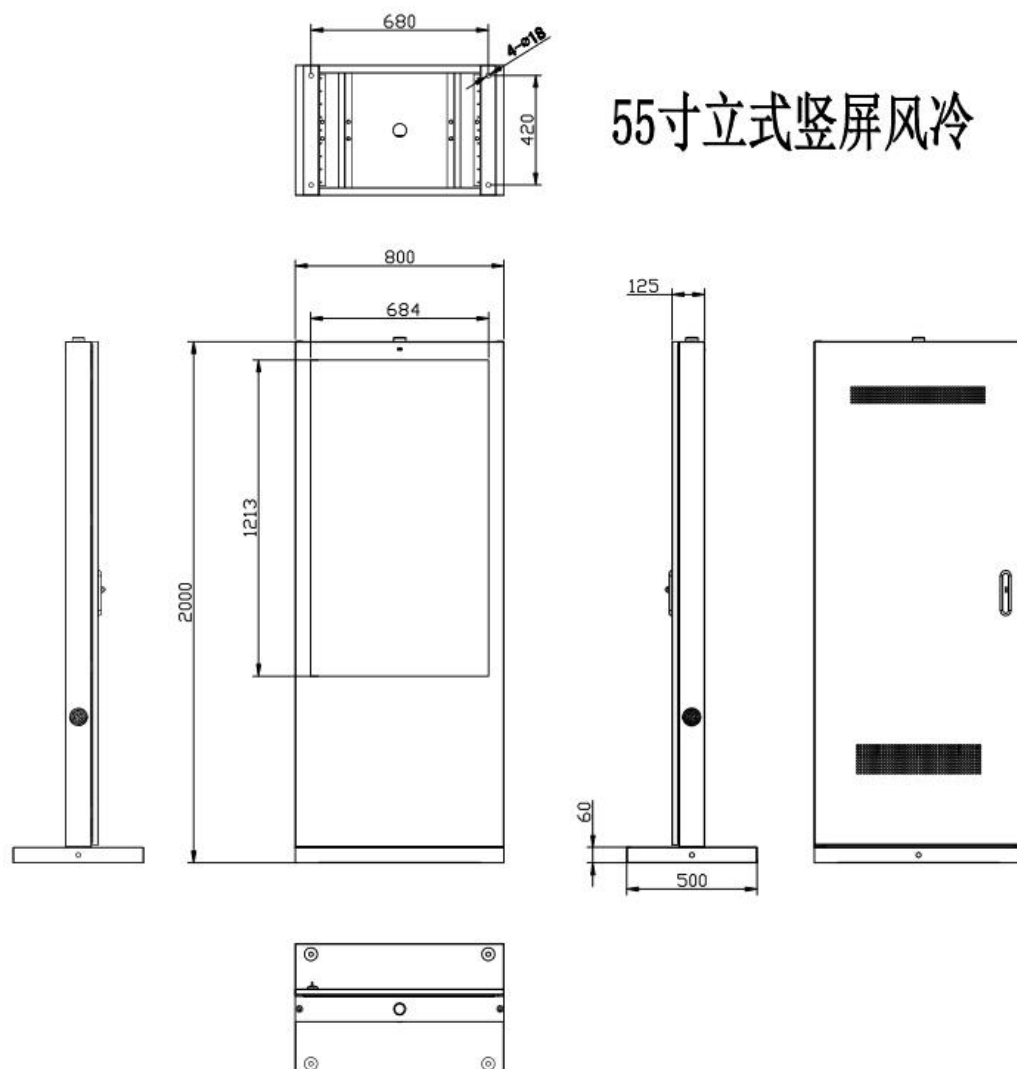
Chapter 4:Control motherboard

Android mainboard (optional 1)	
support system	Android 11.0
CPU	RK3566/RK3568/RK3399
Memory	8G/16G/32G
RAM	2G/4G/8G
Storage Expansion	Supported
Network	RJ45 network port, WiFi, wireless 4G (optional)

Bluetooth	Supported
Touch	G+F PCAP touch (optional)
HDMI	Support HDMI input (optional, no by default)
Advertisement playback	Supports stand-alone mode (U disk)/LAN/WAN. Supports loop, timing, insert, split screen and partition playback, subtitle playback, and supports any combination of multimedia materials . Remote background control. (Optional)
USB Extension	USB2.0*1 USB3.0*1

Computer mainboard (option 2)	
support system	Windows 10 / Windows 11
CPU	I3/i5/i7 optional
Memory	NB-DDR3 memory, 4G/8G/16G optional
Hard disk storage	64G/128G/256G etc. optional
USB interface	USB3.0*2\USB2.0*2
Signal interface	1*VGA , 1*HDMI, 1*DVI, audio interface, etc.
Network support	RJ45 Gigabit Ethernet port, WiFi, wireless 4G (optional)
touch	G+F nano touch (optional, no default)

Chapter 5:Dimensions



Chapter 6: Maintenance

1. Filter cleaning: Clean it every six months (in dusty environments, it is recommended to clean it every 1-3 months depending on the situation). When cleaning, remove the filter and use an air gun to blow off the accumulated dust on the filter, then put it back into the machine.
2. Surface cleaning: When there is a lot of dust on the surface of the machine, you can directly rinse the surface with water or wipe it with a wet towel.

Chapter 7: Common Problem Solving

1. Power outage: Check whether there is leakage in the power supply circuit or damage to the cable/check whether there is leakage or damage to the circuit inside the equipment/whether it is affected by lightning in thunderstorm weather.
2. The display screen is black: Check whether the mainboard is working properly/check whether the screen backlight is normal/check whether the signal line (screen line) is loose/check whether the temperature inside the device is too high (at the temperature display screen inside the control box)
3. Remote control function failure: Check whether the remote control battery is sufficient/check whether the remote control line inside the device is loose/check whether the remote control signal receiving port is

covered by foreign objects or dust.

4. For other abnormal situations, please contact the factory personnel for technical support. Non-professionals are prohibited from disassembling internal electronic components without permission to avoid accidents or damage.