Stark

Touch Device

Stark Display · All-Weather Outdoor Reliability

- Industrial Machinery
- Outdoor Display Solutions
- Customized Display Solutions





CONTENTS

STARK TOUCH DEVICE

01 **Company Profile**

02 **Core Product Matrix**
- Core Technology
- Industrial Display HMI Series
- Outdoor Display Solution Series

03 **Applications & Projects**

04 **Why Choose Stark Technology?**

05 **Production Workshop**

06 **Contact Us**

01 / Company Profile

STARK TOUCH DEVICE



R&D Center & Production Base



Customized Solutions

Superstark Tech. Co.,Ltd. has over 8 years of experience in capacitive touch screen production, providing customized touch screen solutions to global customers. Our products cover open-frame touch displays and touch modules from 7 to 86 inches, widely used in industrial control, commercial display, smart terminals, and other fields.

Brand Origin & Vision

Composed of passionate display tech professionals, Stark Tech is a reliable partner adhering to "Technology as Core, Service as Guide". Founded in 2018 by industrial hardware experts inspired by "Iron Man", we aim to create a tech benchmark and become the "Iron Man" of the industry.

Core Business & Products

Focusing on ODM/OEM services, we provide high-quality industrial computer R&D and manufacturing. Our portfolio includes touch displays, industrial panel PCs, and outdoor display solutions, perfectly suited for harsh industrial environment scenarios.

Value & Mission

Adhering to "Innovation & Quality First", we are committed to helping customers improve production efficiency and maximize commercial value through reliable hardware solutions.

02 / Core Product Matrix

STARK TOUCH DEVICE



Industrial Display HMI [7-27 inches]

- Automated Production Line Control
- Data Acquisition and Analysis
- Mechanical Equipment / ATMs



Outdoor Display Solutions [21.5-98 inches]

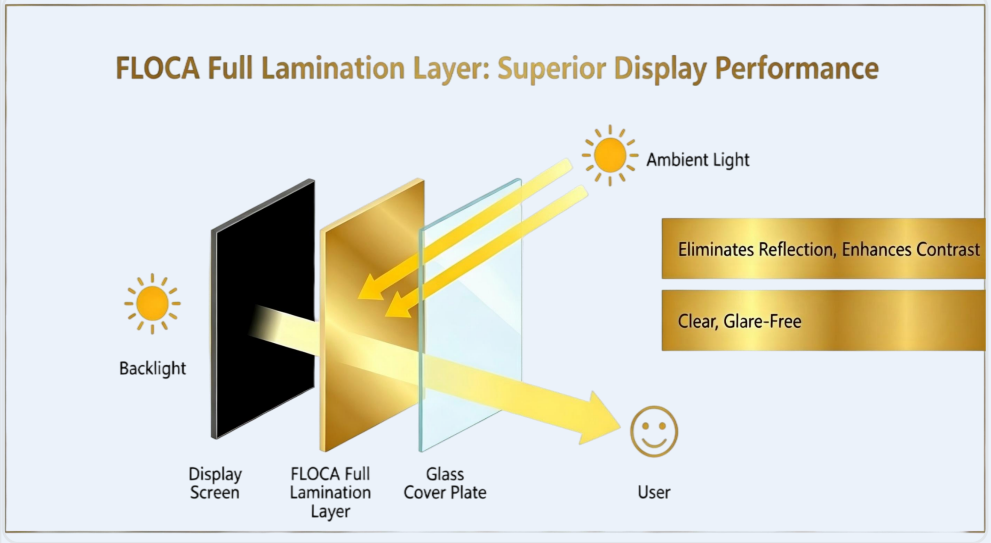
- Airports / Parks / Subway Stations
- Commercial Centers / Stadiums
- Free Logo Silk-Screening

STARK TOUCH DEVICE



Industrial Display HMI
7~27 inches

02 / Core Technology



TECHNOLOGY INTRODUCTION

Optically bonding (OCR/OCA) between cover glass and TFT panel, curing into a bubble-free, integrated composite layer. Designed for harsh, high-light environments, it significantly enhances optical performance, structural strength, and adaptability.

It is the ideal choice for medical, military, transportation, retail, and outdoor display applications.

WHY CHOOSE OPTICAL BONDING?

Comprehensive improvement over traditional air-gap screens:

- **Enhanced Visibility**
  Remains clear in direct sunlight with reduced reflections; text is readable from 1m away.
- **Superior Visual Experience**
  Sharp images at all angles. Combined with AG treatment for clearer, more comfortable viewing.
- **Precise & Smooth Touch**
  Eliminates air gap for zero-delay "touch-and-display" response, perfect for writing/drawing.
- **Robust & Durable Structure**
  Improved strength resists impact/scratches, and effectively prevents dust/moisture ingress.
- **Improved Display Efficiency**
  Increases effective brightness by ≥10%. Optical layer resists yellowing for long-term stability.

STARK TOUCH DEVICE

Industrial Touch Panel





Industrial Touch Panel PC Series



In-Vehicle Series

OEM/ODM Services



Face Recognition Series 1





Face Recognition Series 2

STARK TOUCH DEVICE



IP65 Industrial Panel PC | Flush/Rack Mount | Full Waterproof & Dustproof

Processor: Intel® Core™ i5-6200U Dual-Core 2.3GHz (Turbo 2.8GHz); (i3/i5/i7 Optional)
Interfaces: Flexible I/O including RS232/485, VGA for diverse connections.
Power: Industrial low-power design, supports wide voltage input of 6-36V DC.
Temperature: Stable operation from -30°C to 80°C with custom protection levels.

Display Size (Optional): 10.1 ~ 21.5 inches

Robust & Sealed Body

High Brightness Display

Responsive Touch Screen

For Harsh Environments

Flexible Customization







Supported OS: Windows 7 / 8 / 10 / Linux / Ubuntu

02-3/ IP65 Industrial Touch Monitor



IP65 Industrial Touch Monitor | Flush / Rack Mount | IP65 Waterproof/Dustproof

Interfaces: Equipped with RS232/485, CAN bus for PLC communication, supports PoE power supply & multi-channel video input.

Compatibility: Works with HDMI/VGA/DP signals; expandable with RFID, cameras, barcode scanners & other peripherals.

Size (Optional): 7 ~ 21.5 Inches



Robust Structure Comprehensive Protection

Wide Temp & Voltage Operating Range

Rich I/O &Modular Expansion

High Reliability Long Lifespan

Guaranteed Long-Term Supply

STARK TOUCH DEVICE



Bar Display | Flush Mount | IP65 Waterproof & Dustproof

Touch Options: Optional IR / Capacitive touch, upgradeable to a bar interactive touch screen, supporting PoE power supply.
Operating Temp: Stable operation in a wide temperature range of -30°C ~ 70°C.
Core Tech: Full lamination process with German WACKER optical adhesive for superior clarity.

Optional Size: 15.3 ~ 86 inches (4K UHD Resolution)









Flexible Installation & Customization

Strong Environmental Adaptability

Professional Display Performance

Intelligent Integrated Control

High Efficiency & Long Lifespan

STARK TOUCH DEVICE



IP65 Stainless Steel Touch Panel PC | VESA Mount | Full Waterproof & Dustproof

Processor: Intel® Celeron J1900 Quad-Core 1.99GHz (Turbo 2.41GHz); Core™ i3/i5/i7 Optional.
Interfaces:RS232/485, CAN Bus, GbE. Supports 4G/WiFi/GPS expansion & PoE (on selected models).
Integration: Compatible with Windows/Android/Linux OS & industrial software like MES/SCADA.

Size: 15.6" (Custom Sizes Available)

Industrial-Grade Robust Protection

Stable Operation (Wide Temp/Voltage)

High-Brightness Multi-Touch Display

Rich I/O Modular Expansion

Intelligent OS with AI Computing

Supported OS: Windows 7/8/10 / Linux / Ubuntu











STARK TOUCH DEVICE

Outdoor Display Solutions
21.5 ~ 98 inches

• Outdoor Display Solutions

STARK TOUCH DEVICE

Our outdoor display products cover a range of series including outdoor advertising displays, bus electronic stop signs, outdoor vending machines, light pole screen advertising displays, outdoor charging pile advertising displays, e-paper displays, and outdoor self-service terminals.

1 **Personalized Outdoor Custom Series**



2 **Bus Electronic Stop Sign Series**



3 **Outdoor Vending Machine Series**



4 **Outdoor Self-Service Terminal Series**



5 **Light Pole Screen Display Series**



6 **Outdoor Charging Pile Display**



7 **E-Paper Display Series**



STARK TOUCH DEVICE

Outdoor Advertising Display

FULLY PROTECTED INTELLIGENT SOLUTION

- **Protection Level**
  IP55 / IP65 Certified
- **Energy Saving**
  Flexible timer settings
- **High Brightness**
  1500~3000 cd/㎡
- **Lightning Protection**
  3-Level safety design
- **Smart Light Sensing**
  Auto-adjust brightness
- **High Stability**
  Industrial grade lifespan
- **Intelligent Temp Ctrl**
  Stable long-term running
- **Wide Adaptability**
  All outdoor scenarios



Product Overview & Applications

Our outdoor advertising displays are engineered to withstand the harshest outdoor conditions. With a robust IP55/IP65 protection rating, they are fully waterproof, dustproof, and corrosion-resistant, ensuring reliable performance in rain, snow, or dust storms.

Featuring a high-brightness panel (1500-3000 cd/㎡), the display delivers vivid visuals even in direct sunlight. The built-in ambient light sensor automatically adjusts brightness to match the environment, significantly reducing light pollution and power consumption.

Equipped with an intelligent temperature control system, the unit dynamically adjusts cooling fans based on internal heat, preventing overheating and extending the product lifespan. Energy-saving features include customizable weekly/monthly timers for automatic on/off.

For enhanced safety, it includes a 3-level lightning protection system and leakage protection. This versatile solution is ideal for a wide range of scenarios: CBDs, bus stops, airports, railway stations, park plazas, tourist attractions, high-end communities, and commercial properties.

• Product Categories

STARK TOUCH DEVICE

Stark Technology's outdoor advertising displays are categorized by playback and control methods into three main types:

- **Standalone Outdoor LCD Display**
Plays content directly via USB flash drive. Simple to operate, but program updates require manual on-site replacement.

- **Networked Outdoor LCD Display**
Supports remote management & distribution via wired/Wi-Fi network. Use LAN for same-building control, or WAN for cross-city centralized management.

- **Touch Interactive Panel PC**
Features smart touch for HMI, smartphone-like UX, enabling inquiry, navigation, and interactive functions.

Item	Display Only	Standalone	Android Solution	PC Solution
Mainboard	Display Mainboard	Standalone Board	Android Mainboard	PC Mainboard (x86)
OS Support	- (None)	Basic Android	Android 7/9/11/12, HarmonyOS	Windows 7/10/11, Linux OS
Core Function	External Signal Display	USB Media Playback	Network Remote Control	Network Remote Control
Connectivity	- (None)	- (None)	Wi-Fi, LAN, 4G/5G Module	Wi-Fi, LAN, 4G/5G Module
Extra Features	- (None)	- (None)	Nano/Capacitive Waterproof Touch	Nano/Capacitive Waterproof Touch

Main Parameter Introduction



178°

Wide

The outdoor high-brightness screen is equipped with a new generation LED backlight solution and an exclusively customized high-brightness LCD screen module with an all-metal structure. It has excellent thermal conductivity, resulting in more uniform screen light emission and more transparent image quality. Combined with a high-brightness and energy-saving backlight module, it balances high brightness with low power consumption and durability, making it the preferred solution for outdoor display scenarios.

Small Size	Regular Size	Large Size
Size:21.5″, 27″	Size:32″ ~ 75″	Size:86″, 98″, 110″
Res:1920*1080K2 2K/3840*2160K4	Res:1920*1080 2K/3840*2160K4	Res:1920*1080 2K/3840*2160K4
Brightness:1000-1500 cd/㎡	Brightness:1500-2500 cd/㎡	Brightness:1500-3000 cd/㎡
Backlight:Edge-lit	Backlight:Edge-lit, Direct LED	Backlight:Direct LED
Cooling:Air-cooled, Peltier	Cooling:Air-cooled, Air Cond.	Cooling:Air-cooled, Air Cond.



① AR Eye-Care Glass = Magnetron Sputtering + Ultimate Anti-Reflection + Ultra-High Transparency

Technically known as Anti-Reflective (AR) glass, its core manufacturing process adopts the world's top magnetron sputtering coating technology. By depositing multiple layers of high-transmittance anti-reflection film on a strengthened glass substrate, it effectively weakens ambient light reflection on the surface, increasing the original light transmittance to over 90%. This innovation completely restores the color saturation and true texture of the displayed picture, achieving an essential leap in visual clarity for outdoor viewing.

CORE BENEFIT: Eliminates glare, enhances image vibrancy, and provides a comfortable visual experience in strong sunlight.

- **KEY FEATURES**

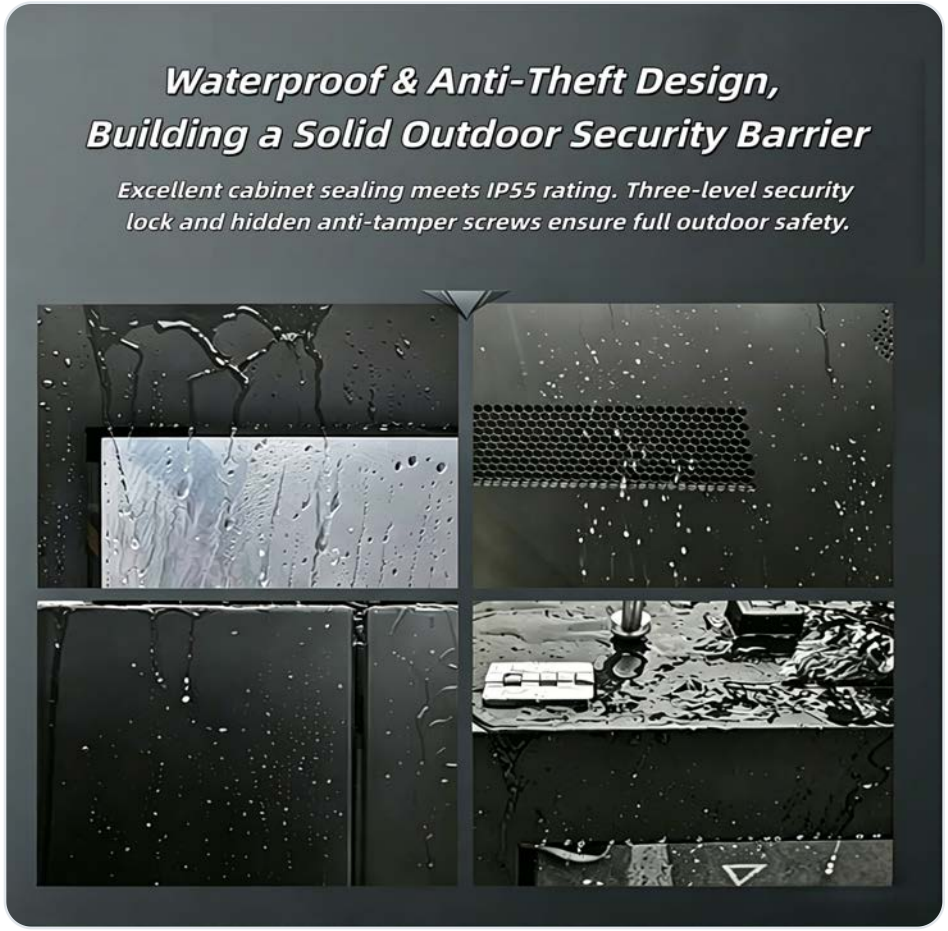
STARK TOUCH DEVICE



Outdoor Terminal

② IP65 Fully Protected Outdoor Terminal
High-Quality Display + 7-Year Rust Prevention, Customized Solutions

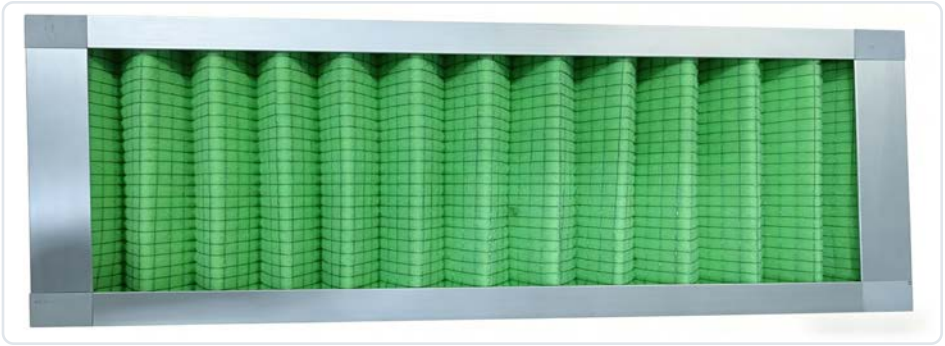
- **Appearance:** Ultra-narrow & ultra-thin, with both aesthetics and texture.
- **Durability:** Galvanized steel + outdoor baking paint, 7-year anti-corrosion.
- **Protection:** IP65 waterproof & dustproof, stable outdoor operation.
- **Image Quality:** 95%+ high-transmittance glass, clear picture without loss.
- **Security:** Anti-theft lock + wall mounting, double protection for safety.
- **Service:** Modular design, fully customizable color and LOGO.



Dustproof System

③ Industrial-Grade Appearance and Structure

Dustproof: Adopts a high-precision dustproof filtration system that can block 99% of dust particles, maintaining internal cleanliness for a long time. The optimized air duct structure design results in lower filter wind resistance, achieving both efficient dustproofing and sufficient ventilation airflow.





Outdoor Display Unit

④ Outdoor Display

1. Screen Display & Backlight Optimization

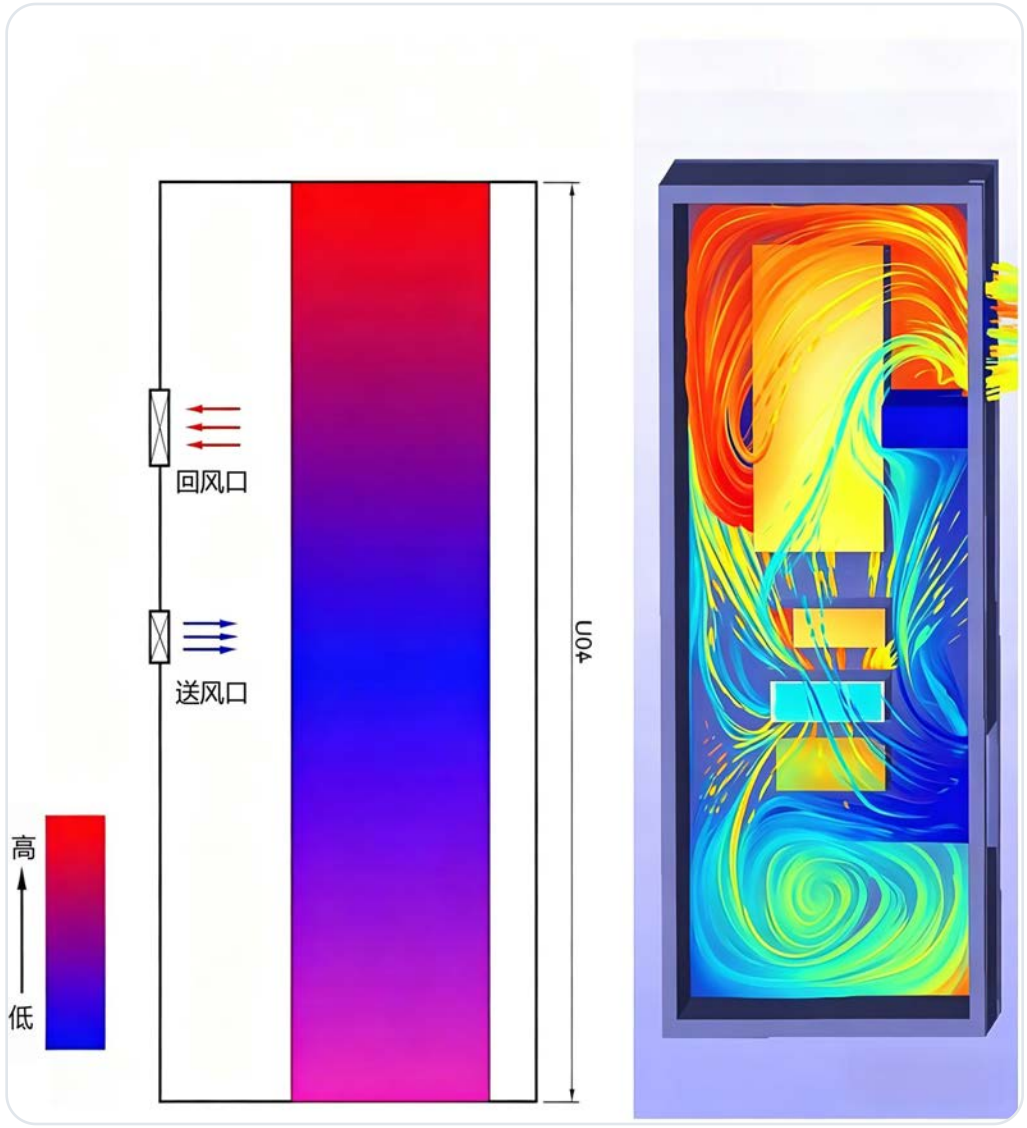
Uses high-quality LG/BOE LCD panels combined with a self-developed LED backlight solution, achieving lower power consumption, lower heat generation, and higher brightness. Standard brightness options: 2000/2500/3000cd/㎡, balancing clarity and comfort.

2. HD & High-Brightness Optimization

Equipped with an ultra-HD LCD screen, supporting 4K (3840×2160) resolution, a high contrast ratio of 3000:1, and full-view wide color gamut display for clear visuals at any angle.

3. Intelligent Brightness Adjustment

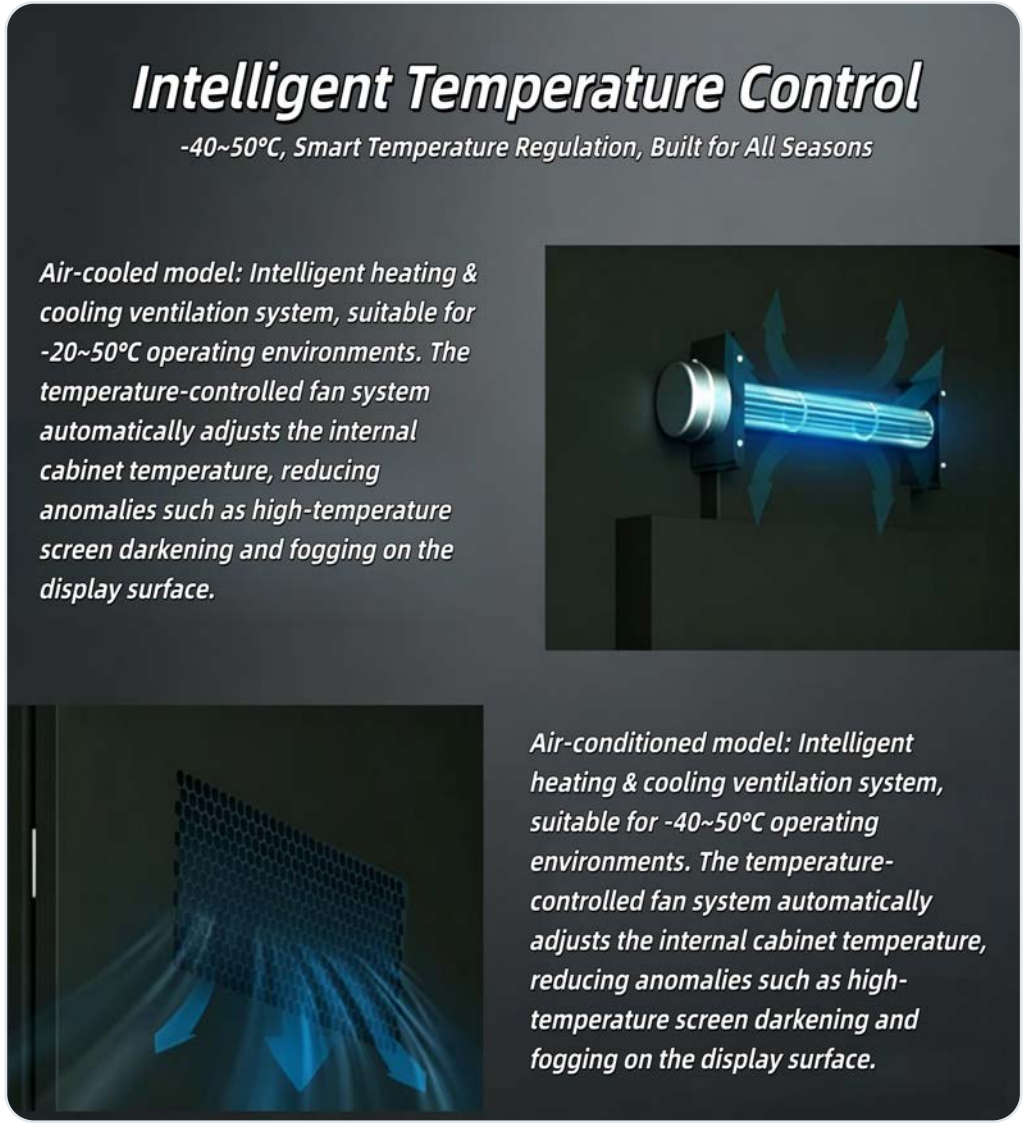
An intelligent light-sensing dimming system adapts screen brightness to ambient light, ensuring clear, comfortable viewing all day while protecting eyes and reducing energy use.



Outdoor Cooling

⑤ Professional Outdoor Thermal Simulation Solution

Uses an exclusive air duct structure and a professional cooling system. Relying on ICEPAK simulation software, it models and analyzes internal airflow and temperature distribution for different application scenarios, ensuring efficient and unobstructed heat dissipation, maintaining the appropriate operating temperature of the device for stable and reliable operation.



Intelligent Regulation

06. Intelligent Temperature Control System

Regulates heat dissipation in real-time, driving internal and external air circulation based on the device's internal temperature. The air inlet is equipped with a**dustproof filter**as standard to effectively block sand and dust intrusion. The system has a built-in**energy-saving mode**, perfectly balancing temperature control efficiency with low power consumption performance for outdoor operation.

NOTE: For air-cooled devices, it is strongly recommended to configure an additional heater when the ambient temperature drops below -15°C to ensure stable startup and operation.

- System Solution Series

Outdoor Core Solutions

Outdoor Core Solutions | Core Component Configuration

Mean Well Industrial Power Supply



Uses Taiwan Mean Well industrial-grade switching power supplies with built-in cooling fans for stable performance. Features low standby power consumption, complete safety certifications, and comprehensive protection mechanisms for reliable quality in harsh outdoor environments.

Intelligent Leakage Protector



Integrates overload, short-circuit, and leakage protection. It quickly cuts off power in case of faults or electric shocks, safeguarding electrical safety. Suitable for infrequent circuit switching and provides a solid safety barrier for outdoor systems.

T2 Level Surge Protector (SPD)



Specifically designed for high incidence of induced lightning areas. Provides secondary lightning protection with nanosecond-level response, low residual voltage, and large discharge energy. Ensures fine protection against voltage spikes and surges.

Microcomputer Timer Switch



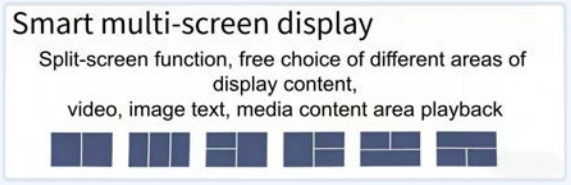
Brand intelligent time control switch supporting Chinese/English interface. Can set up to 16 groups of on/off schedules and supports flexible period settings by day, week, or month for automated outdoor system management.

Outdoor Core Solutions

Intelligent Split-Screen for Diverse Presentation

Smart Display

High-brightness outdoor panels with anti-glare technology, ensuring clear visibility even in direct sunlight.



Robust Advantages

IP65 Protection: Industrial waterproof & anti-theft design for harsh outdoor use.
Stable Power: High-grade power supply for reliable performance.

Always Online

Equipped with 4G/Wi-Fi modules for stable network connection, ensuring real-time data transmission and remote control.



Intelligent Split-Screen

Supports free partition display with built-in multiple modes. Combine images, videos, and audio seamlessly, or create custom split-screen layouts for diverse content.

Strict Quality Control

Products undergo rigorous testing including high/low temperature, salt spray, lightning strike, dustproof and waterproof tests to ensure top-tier reliability.



Cloud Intelligent Mgmt

Remote operation via cloud backend for unified management across regions.
Control via phone/PC with one click for efficient content distribution.



Bus Electronic Stop Sign Series

Bus Electronic Stop Sign Series

The application of intelligent bus electronic stop signs has further improved the informatization service level of transportation and the quality of public transport services. By building a background database for intelligent bus electronic stop signs, functions such as front-end device debugging, display format, content, font size, color, broadcast frequency, and electronic route signs can be uniformly managed in the background. This effectively solves problems such as device power consumption, inaccurate broadcasting, and noise disturbance to residents. This not only further increases the coverage rate of intelligent bus electronic stop signs, improves the intelligent service level of bus facilities, enriches information service content, and continuously meets the public's bus travel needs, but also helps build a public transportation system compatible with civilized cities and economic and social development, becoming a beautiful landscape that enhances the city's civilized image.



Outdoor Vending Machine Series

Outdoor Vending Machine Series

The rise of intelligent one-stop services for outdoor vending machines is leading the retail industry into a new era. Compared with traditional sales models, intelligent vending machines have achieved a triple breakthrough in cost reduction and efficiency enhancement: significant reduction in labor costs, substantial improvement in operational efficiency, and obvious reduction in management burdens.

The product's appearance design integrates modern aesthetics and coexists harmoniously with the urban landscape, becoming a beautiful landscape of a modern civilized city. The outdoor vending machine series feature practical and sophisticated functional design, offering diverse temperature control options such as refrigeration and heating to meet the storage needs of different products.

It supports mainstream online payment methods, enabling convenient and efficient transactions. The system is powerful in function and intuitive and simple in operation, greatly enhancing the user experience and truly achieving a perfect combination of intelligence, humanization, and convenience.



Outdoor Self-Service Terminal Series

Outdoor Self-Service Terminal Series

The application scenarios of outdoor self-service terminals are very extensive, covering multiple industries:

- **Financial Sector:**Banking service terminals, ATM self-service deposit and withdrawal devices, etc.
- **Cultural & Tourism:**Self-service ticketing/checking terminals, self-service ticket collection all-in-one machines, etc.
- **Catering Industry:**Catering info inquiry terminals, self-service payment & settlement devices, etc.
- **Transportation:**Intelligent guide terminals, route guidance, parking payment, airport ticketing terminals, etc.
- **Express Logistics:**Self-service parcel stations, pick-up/drop-off terminals, self-service express lockers, etc.



Outdoor Light Pole Display Series

Outdoor Light Pole Display Series

The rise of intelligent one-stop services for outdoor vending machines is leading the retail industry into a new era. Compared with traditional sales models, intelligent vending machines have achieved a triple breakthrough in cost reduction and efficiency enhancement: significant reduction in labor costs, substantial improvement in operational efficiency, and obvious reduction in management burdens.

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Outdoor Charging Pile Display Series

Outdoor Charging Pile Display Series

With the rapid popularization of new energy vehicles, charging pile advertising displays not only provide stable and reliable energy supply for vehicles, but also restructure the charging scenario with an innovative form, creating a new generation of smart charging ecology. The product deeply integrates wireless network technology with charging equipment, providing rich local audio-visual, information and other content services for users waiting for charging while achieving basic data communication and network coverage, greatly enhancing the charging experience. For operators and brands, this model can not only expand communication channels, but also achieve simultaneous improvement of commercial value and brand influence. It integrates practical functions, user experience, and operational benefits, truly achieving a win-win situation for all parties.



Standard Sizes Available:

13.3 inches / 31.2 inches (Customizable on demand)

E-Ink Display

E-Ink is an innovative method and technology for information display. It changes color when an electric current is applied and can display changing images like a traditional screen.

With extremely low power consumption and no need for heat dissipation, E-Ink displays have a wide range of applications and are the mainstream solution for outdoor use in the future.

STARK TOUCH DEVICE



Size: 21.5 - 98 inches

Personalized Outdoor Customization Series

With years of experience in outdoor display solutions, we have mature technical accumulation and rich project implementation experience, focusing on providing one-stop outdoor display services for customers in various industries. Relying on strong R&D and production capabilities, we can achieve highly flexible and responsive customized development according to customers' needs for scenarios, functions, appearance, and dimensions, tailoring various special display devices such as outdoor advertising displays, intelligent terminals, and high-brightness displays. With stable and reliable quality and efficient customization services, we meet the application needs of diversified scenarios.

STARK TOUCH DEVICE

Industry 4.0
Core interactive terminals for automated production lines and unmanned workshops.

Internet of Things (IoT)
Real-time monitoring of equipment status and display of data collection.

Artificial Intelligence (AI)
Algorithm model training terminals and edge computing display interfaces.



Smart Manufacturing
Core Application Scenarios

Smart City
Smart Government Affairs Hall: City data visualization terminals.

Intelligent Transportation
Vehicle Central Control Display: Traffic command and dispatch systems.

Intelligent Security
High-Definition Surveillance Screens: Access control system interactive panels.

Business Intelligence (BI) | Data Dashboard for Decision Support

Smart Manufacturing | Precision Instruments and Machine Tool Control



Commercial Plazas

Publish promotional information and brand advertisements through smart advertising displays to effectively increase mall popularity and sales.



Transportation Hubs

Display real-time flight and train information to provide convenient services for passengers, while efficiently publishing commercial advertisements.



Smart Communities

Serve as a community information release platform to promptly push property notices and convenient information, significantly improving management efficiency.

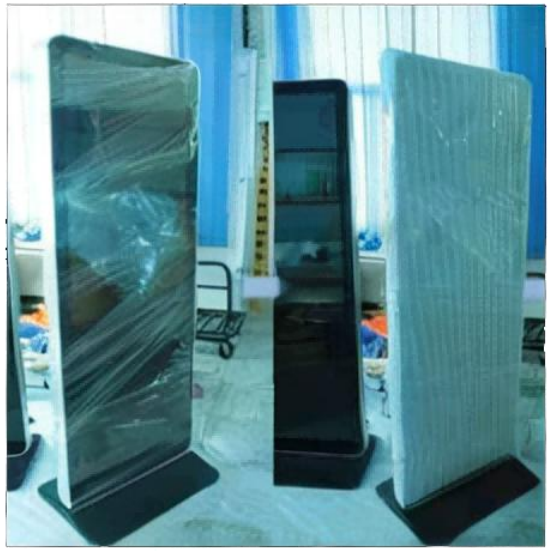


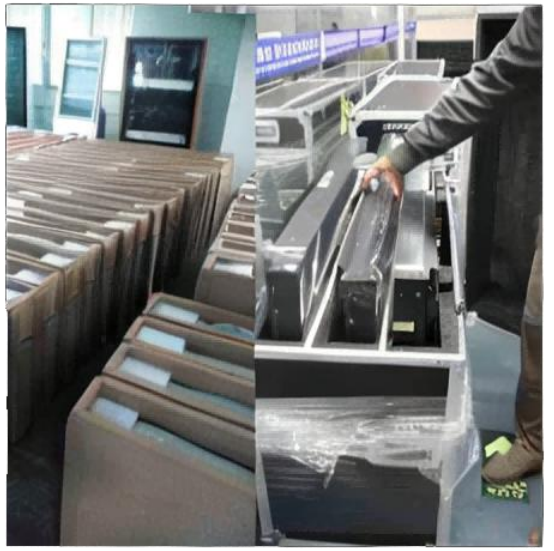
Smart Scenic Areas

Provide intelligent guide services, display real-time scenic area information and activities, and comprehensively enhance the tourist experience.

STARK TOUCH DEVICE

Packaging (Carton, wooden case, or flight case optional)







STARK TOUCH DEVICE

After-Sales Service System

Professional On-Site Service & Expert Team Support



2H Rapid Response

Immediate telephone response within 2 hours to address your needs.



24H On-Site Support

On-site troubleshooting provided within 24 hours if logistics allow.



48H Problem Solved

Commitment to fully resolve issues within 48 hours to minimize downtime.



Spare Parts Ready

Proactively arrange for parts replacement if on-site fix is unavailable.

STARK TOUCH DEVICE

Our Assembly Factory



Strict Quality Control

From component inspection to final testing, we maintain rigorous standards to ensure zero defects.



Expert Technician Team

Our highly skilled engineers oversee every assembly step, bringing years of experience to the production line.



Advanced Facilities

Equipped with state-of-the-art automated machinery to ensure precision, efficiency, and consistent output.



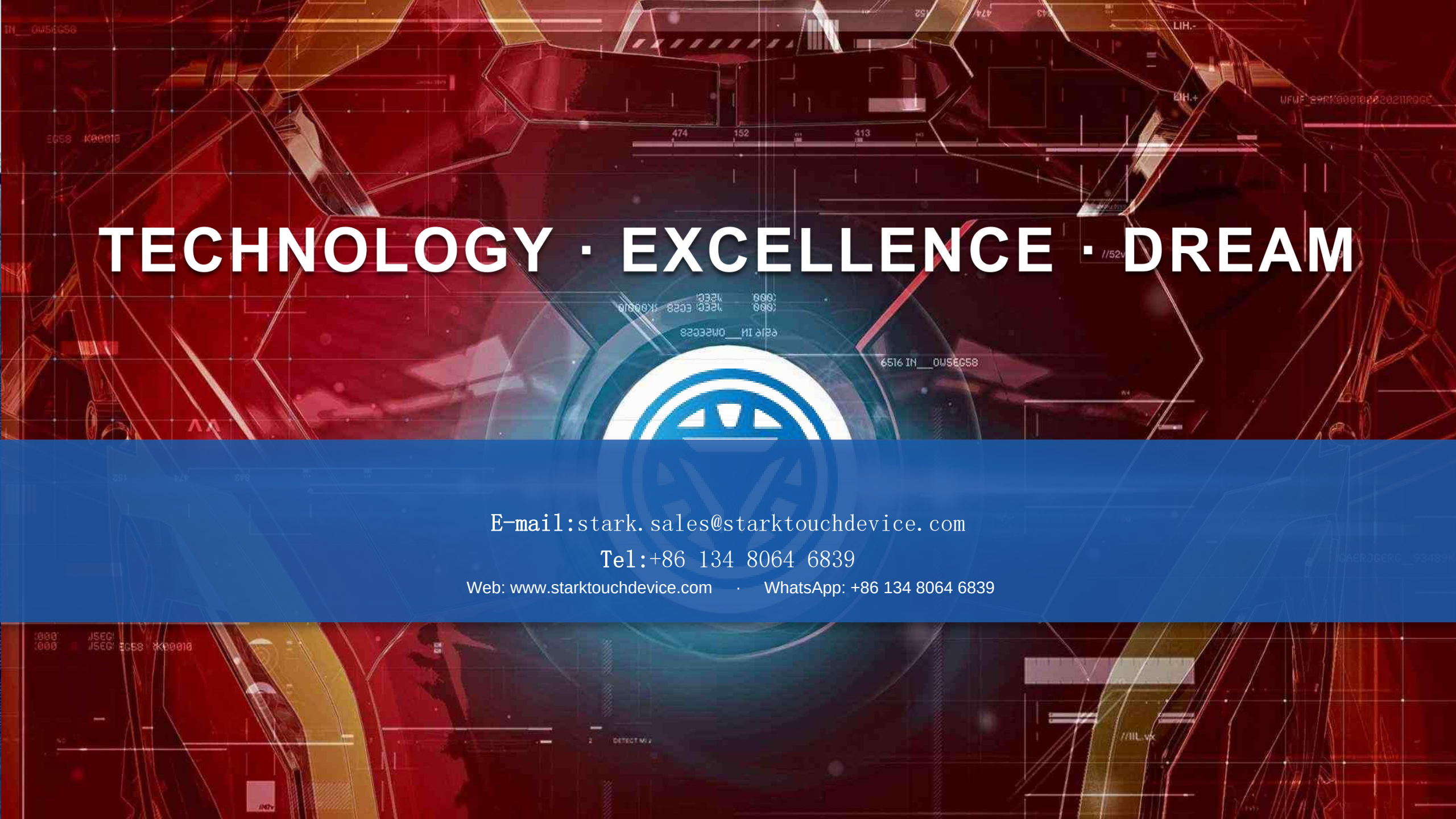








Our assembly plant



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