CATALOG

1 Company Profile
- Founding Background
- Development Path
- Core Enterprises
- Organization Chart

2 Product Overview
- AIO Panel PC
- Outdoor E-Paper Display Terminal
- Outdoor Eco-Friendly Display Terminal
- Outdoor AIO Display Terminal

3 Product Applications
- Smart Industry
- Smart Transportation

4 Production Introduction
- Production Workshop
- Quality Policy
- Realiability Test

5 Company Advantage
- Product Qualification / Patent
- Efficient Service Timeliness
- Customization Service
- Upstream Brand Partners

6 Company Culture
- Vision
- Business Philosophy
- Mission
- Management Philosophy
- Core Values
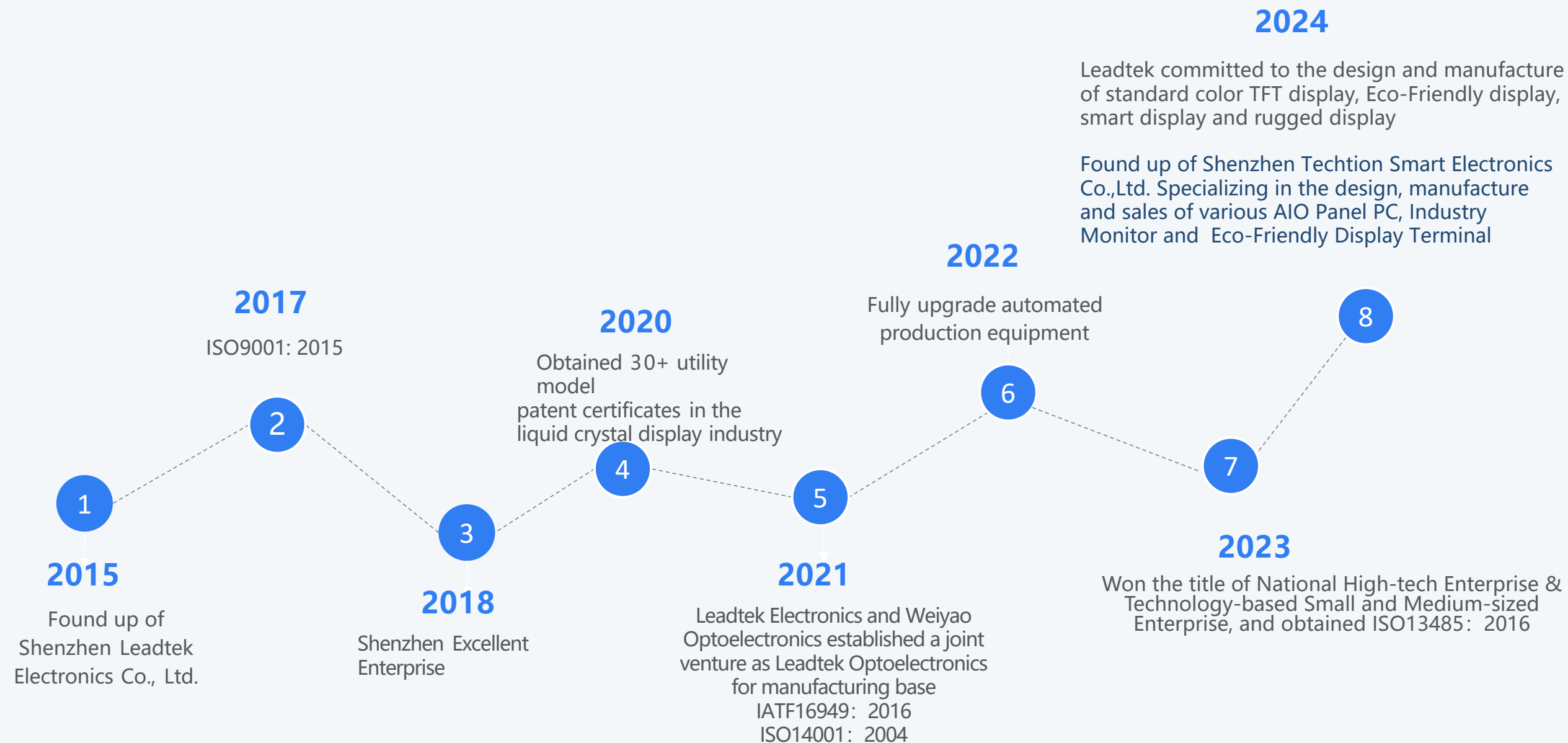- R&D Philosophy

01

TECHTION
SMART

Company Profile

Founding Background

Techtion Smart is affiliated to Shenzhen Leadtek Electronics Co., Ltd. (referred to as Leadtek), and is the complete machine division founded by Leadtek in 2024. Relying on the technology, resources and management experience accumulated by Leadtek since its establishment in 2015, Techtion Smart provides customers with tailor-made low-carbon and environmentally friendly touch display terminal solutions.

Our strategic positioning: to accelerate the digital transformation of industries in various fields with low-carbon, energy-saving and eye-protection new display technologies, and to promote digital, economic innovation and sustainable development. We design, manufacture and sell various AIO Panel PC, Industry Monitor and Eco-Friendly Display Terminal for vertical markets, with sizes ranging from 7.0 inch to 110 inch. Our products are mainly used in smart industry and smart transportation fields.

Development Path

2024

Leadtek committed to the design and manufacture of standard color TFT display, Eco-Friendly display, smart display and rugged display

Found up of Shenzhen Techtion Smart Electronics Co.,Ltd. Specializing in the design, manufacture and sales of various AIO Panel PC, Industry Monitor and Eco-Friendly Display Terminal

2022

Fully upgrade automated production equipment

2017

ISO9001: 2015

2020

Obtained 30+ utility model
patent certificates in the liquid crystal display industry

8

2

6

4

7

1

5

3

2015

Found up of Shenzhen Leadtek Electronics Co., Ltd.

2023

Won the title of National High-tech Enterprise & Technology-based Small and Medium-sized Enterprise, and obtained ISO13485: 2016

2018

Shenzhen Excellent Enterprise

2021

Leadtek Electronics and Weiyao Optoelectronics established a joint venture as Leadtek Optoelectronics for manufacturing base
IATF16949: 2016
ISO14001: 2004

Core Enterprises

Shenzhen Leadtek Electronics Co., Ltd

Founded in 2015

Major Business
R&D and sales of Standard Color TFT Display, Rugged Display, Eco-Friendly Display and Smart Display from 1.3 inch to 21.5 inch

Address
Room 902, 9th Floor, Shenzhou Tianyun Building, Bell Road, Bantian Street, Longgang District, Shenzhen, China

Shenzhen Leadtek Optoelectronics Co., Ltd
(a joint venture of Leadtek Electronics and Weiyao Optoelectronics)

Founded in 2021

Major Business
Production and manufacturing of Standard Color TFT Display, Rugged Display, Eco-Friendly Display and Smart Display from 1.3 inch to 21.5 inch

Address
3rd Floor, Building 4, Zhipeng Industrial Park, Fuyuan 1st Road, Heping Village, Baoan District, Shenzhen,China

Shenzhen Leadtek Investment Partnership

Founded in 2022

Major Business
operating a common business, joint investment, partnership operation, profit sharing

Address
Room 902, 9th Floor, Shenzhou Tianyun Building, Bell Road, Bantian Street, Longgang District, Shenzhen, China

Shenzhen Techtion Smart Electronics Co.,Ltd
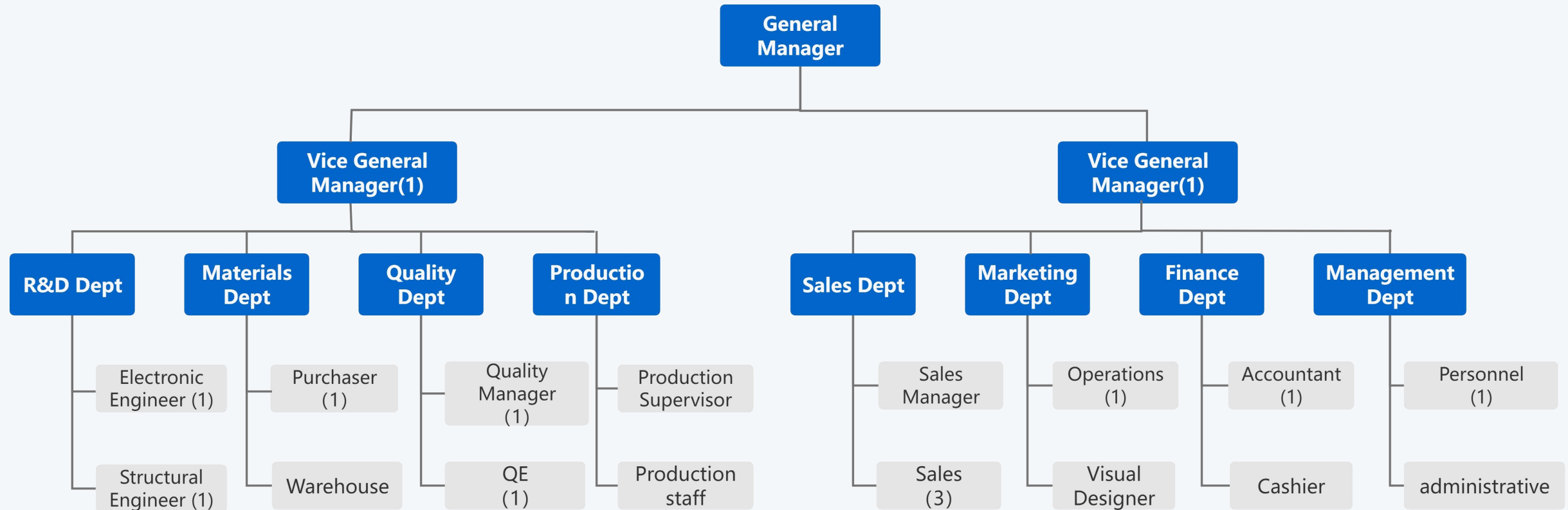
Founded in 2024

Major Business
Design, manufacture and sales of various AIO Panel PC, Industry Monitor and Eco-Friendly Display Terminal

Address
Room 902, 9th Floor, Shenzhou Tianyun Building, Bell Road, Bantian Street, Longgang District, Shenzhen, China

1 2 3 4

Organization Chart

02

TECHTION
SIMART

Product Overview

Product Overview

Smart Industry

Smart Transportation

	AIO Panel PC	Outdoor E-Paper Display Terminal	Outdoor Eco-Friendly Display Terminal	Outdoor AIO Display Terminal (Local Dimming)
Size	7~21.5 inch	13.3/28/31.2 inch	7.8/10.1/21.5/23.8/28/32/43/55 inch	32/43/55 inch
Feature	• High temperature • Flexible installation • Multiple interfaces • Front panel IP65 • Capacitive/resistive touch • Fully customized	• Low power consumption • Energy saving • Eye protection • Wide temperature • OCA Bonding • UV resistant • IP65 • IK08	• Low power consumption • Energy saving • Eye protection • Wide temperature • OCA Bonding • UV resistant • IP65 • IK08	• High brightness • Dynamic backlight • Low power consumption • Energy saving • High color gamut • Wide temperature • IP66 • IK10

Smart Industry

**Strong, shock-resistant, anti-interference, and corrosion-resistant**

Industrial grade protection, made of die-cast aluminum or stainless steel, fully enclosed structure, front panel IK03-IK10

High temperature resistance

Able to work normally in high and low temperature environments, adapting to various harsh conditions in industrial production processes

Waterproof and dustproof

Conventional machine front panel IP65 waterproof and dustproof
Stainless steel machine IP67-69 waterproof and dustproof

Features
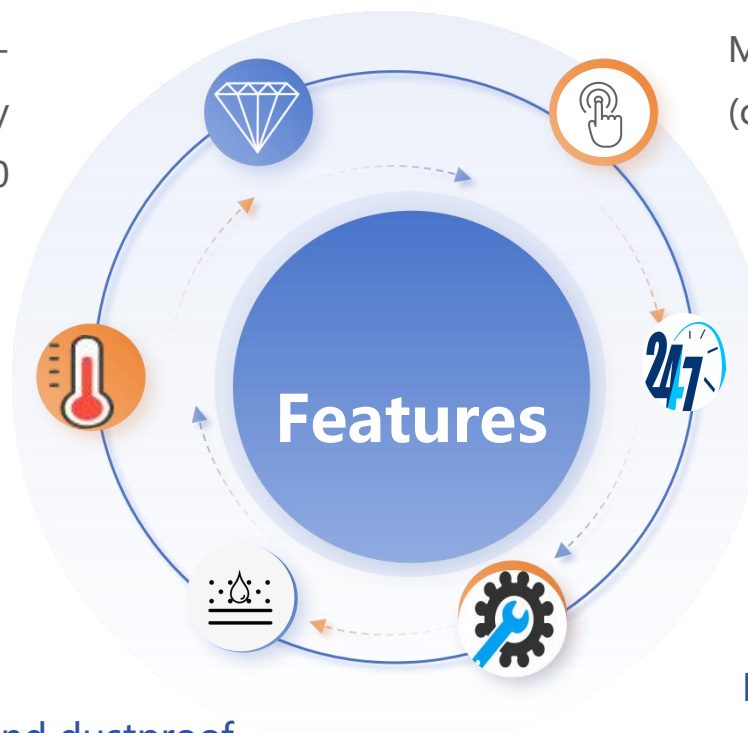
Human-computer interaction

Multi-point capacitive / resistive touch (can be waterproof touch)

Long service life

Industrial-grade panel, 7*24 hours operation, service life up to 50,000 hours.

Flexible installation

Open structure/embedded/wall-mounted/desktop/hanging wall

Smart Industry

Embedded

Open Frame

● Regular size: 7/8/10.1/10.4/12.1/13.3/15.6/18.5/21.5 inches

● Touch: capacitive touch/resistive touch/non-touch

● Brightness: 300-1000nits

● Regular motherboard solution:
1. Monitor
2. ARM architecture (RK3568/RK3288/RK3399/RK3588)
3. X86 architecture (J1900/J4125/J6412, Intel I3/I5/I7)

● System (foreign): Android/Windows/Linux (Debian, Ubuntu)

● Bonding method: air bonding/oca bonding

● Product features: fully enclosed fanless, 2.5mm low-step sink (perfect embedding fit), strong and shock-resistant, strong heat dissipation, anti-interference, wide temperature range, pure flat IP65, 7*24H, flexible installation.

● Customizable: size/appearance/touch/cover (such as: AG)/brightness/function/interface/IK level

● Product application: industrial automation equipment/AGV smart car/intelligent production line/intelligent robot

Smart Industry

VESA Mount

● Regular size: 15.6/18.5/21.5/23.8/27/32/43/55 inches

● Touch: capacitive touch/resistive touch/non-touch

● Regular motherboard solution:
1. Monitor
2. ARM architecture (RK3568/RK3288/RK3399/RK3588)
3. X86 architecture (J1900/J4125/J6412, Intel I3/I5/I7)

● System (foreign): Android/Windows/Linux (Debian, Ubuntu)

● Brightness: 300-1000nits

● Bonding method: air bonding/oca bonding

● Product features: fully enclosed one-piece die-cast back shell, strong and shock-resistant, strong heat dissipation, anti-interference, wide temperature, flat IP65, 7*24H, flexible installation

● Customizable: size/appearance/touch/cover (such as AG)/brightness/function/interface/IK level

● Product application: industrial automation equipment/intelligent production line

Smart Industry

Stainless Steel Series

● Regular size: 8/10.1/12.1/13.3/15/15.6/17.3/19/21.5/23.8/32 inches

● Touch: capacitive touch/resistive touch/non-touch

● Regular motherboard solution:
1. Monitor
2. ARM architecture (RK3568/RK3288/RK3399/RK3588)
3. X86 architecture (J1900/J4125/J6412, Intel I3/I5/I7)

● System (foreign): Android/Windows/Linux (Debian, Ubuntu)

● Brightness: 300-1000nits

● Bonding method: air bonding/oca bonding

● Product features: SUS304 stainless steel material, IP67 dustproof and waterproof, aviation socket, corrosion resistance, high temperature resistance, anti-interference

● Customizable: size/appearance/touch/cover (such as AG)/brightness/function/interface/IK level

● Product application: special environments, such as: food processing plants, marine operations, water treatment plants, pharmaceutical plants, meat slaughterhouses, ports, oil fields, chemical plants, etc.

Smart Transportation

Features
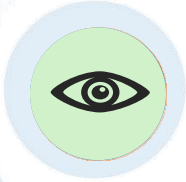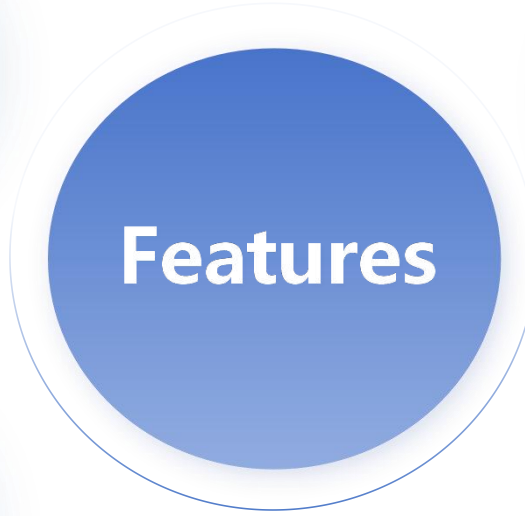
Readable in sunlight, eye protection
Reflective LCD screen, no backlight (blue light) design, reduces the damage of blue light to the eyes.

Wide temperature range
All raw materials are made of high and low temperature resistant materials, which can work normally in high and low temperature environments and adapt to various harsh outdoor conditions.
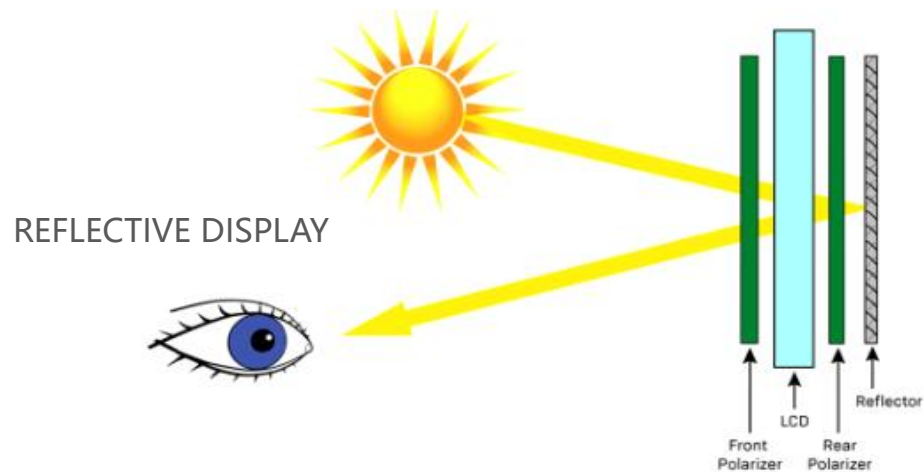
Low power consumption, energy saving
Automatic light sensing, green energy saving, front light design, supports solar power supply.

Strong heat dissipation performance
The whole machine has built-in multiple sets of fan groups direct ventilation and cooling system, and adopts professional and special air duct cooling design.

Waterproof, dustproof, lightning proof
The whole machine adopts waterproof and dustproof design, up to IP66, with built-in temperature controller, leakage switch and lightning arrester.

Reflective LCD work by using a reflective layer along with the polarizing filter, to reflect the light back to the user's eyes instead of emitting light from a backlight. The liquid crystal layer modulates the amount of light that is reflected back, creating the desired image.

REFLECTIVE DISPLAY

In a transflective LCD, a backlight is used to illuminate the screen in low-light conditions, such as indoors or at night. In bright light conditions, such as outdoors or direct sunlight, the screen can be viewed by reflecting ambient light off the surface of the LCD.

TRANSFLECTIVE DISPLAY

Reflective LCD are great for outdoor or sunlight-readable applications where the device is exposed to direct sunlight. The most common devices using reflective LCDs are outdoor applications such as GPS devices and portable devices such as e-readers, camera viewfinders, and digital watches.
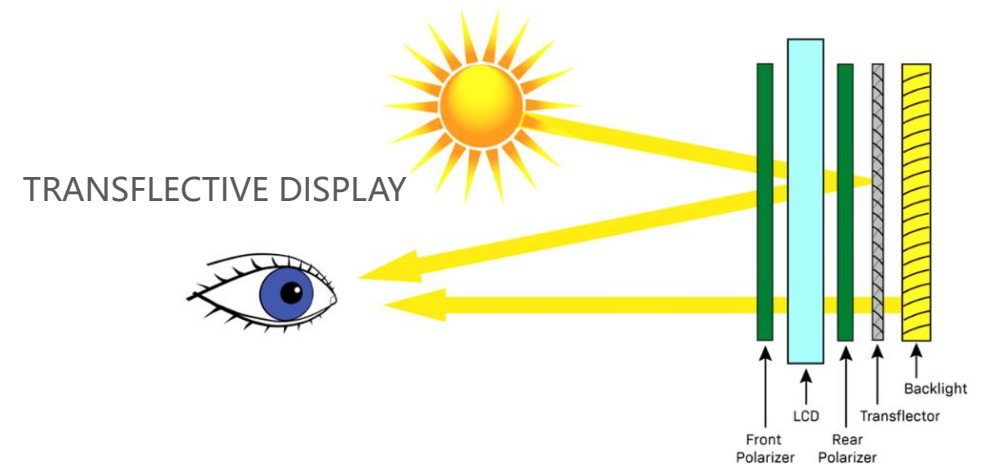
Transflective LCD are commonly used in industrial and medical equipment, where it's essential to have high visibility in any lighting conditions. They are also widely used in marine, military, and aviation applications where the operator needs to see the display in bright and low light conditions.

Smart Transportation-Stretched Bar Display

Bus

Subway

Model	TS-280THD	TS-286THD	TS-362THD	TS-401THD	TS-434THD	TS-500THD
Resolution	1920*362	1920*553	1920*560	1920*750	1920*758	1920*1019
Brightness	500nit	500nit	500nit	500nit	500nit	500nit
Power Supply	DC9-36V	DC9-36V	DC9-36V	DC9-36V	DC9-36V	DC9-36V

Smart Transportation

Electronic bus stop sign

Eco-Friendly Display: 10.1/15.6/21.5/23.8/28/32/43/55

E-Paper Display: 13.3/28/31.2 inch

TFT-LCD: 28.6/32/43/55/65/75/86/98 inch

Parking fee payment device display
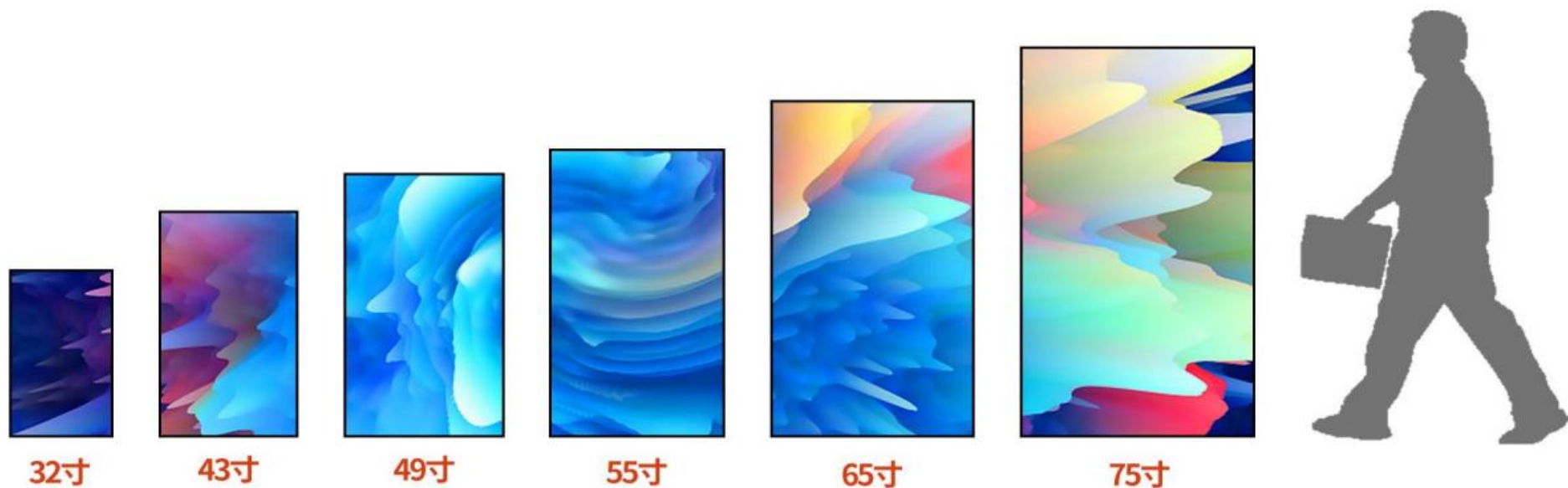
Eco-Friendly Display:

7.8/10.1

Charging pile display

Eco-Friendly Display:

7.8/10.1/15.6/21.5/32/43

Smart light pole display

Eco-Friendly Display: 32/43

Outdoor High Brightness Full Laminated Display

32寸   43寸   49寸   55寸   65寸   75寸

- Conventional size: 32" /43" /49" /55" /65" /75"
- Conventional motherboard solution:
1. Display
2. ARM architecture (RK3568/RK3288/RK3566)
3. X86 architecture (Intel I3/I5/I7)
- System (foreign): Android/Windows/Linux (Debian, Ubuntu)
- Ultra-high brightness: 2500-3500nits
- Product features: full lamination, IP66, 5MM tempered glass (IK10), built-in temperature controller, leakage switch, lightning arrester, aviation plug interface.
- Customizable: waterproof touch/AG/AR/anti-infrared/anti-ultraviolet/appearance structure/brightness
- Product application: outdoor commercial

TECHTION
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Product Applications

Smart Industry

Definition

Smart industry will continuously integrate various terminals with environmental perception capabilities, computing models based on ubiquitous technologies, mobile communications, etc. into all aspects of industrial production, greatly improving manufacturing efficiency, improving product quality, reducing product costs and resource consumption, and elevating traditional industries to a new stage of intelligence, informatization, and digitalization.

The role of the display

As an indispensable part of the intelligent manufacturing industry, industrial display screens are the bridge between people and machines, systems and data, as well as important interfaces of modern industrial control systems and the windows and heart of industrial automation. They can also improve manufacturing efficiency, product quality, and reduce product costs and resource consumption.

Smart Manufacturing Applications

CNC Machine tool equipment

Industrial visual inspection equipment

Factory Intelligent Application Production Line

Industrial automation robot arm matching

Military and heavy industry equipment

Industrial electrical equipment

Smart City Applications

Intelligent garbage sorting station

Radio Frequency Identification

Convenient government self-service terminal

Self-service terminal

Self-service vending machine

Self-service takeaway cabinet

Self-service express lockers

Artificial Intelligence Applications

Food delivery robot

AVG Forklift Robot

Construction Robot

Disinfection robot

Inspection Robot

Transport Robot

Special Environment Applications

Ships, Maritime

Laboratory

Pharmaceutical Factory

Food Processing Plants

Smart Transportation

Definition

Smart transportation is based on intelligent transportation, integrating new technologies such as the Internet of Things, cloud computing, big data, and mobile Internet. It provides traffic information services with real-time traffic data by collecting traffic information. It makes extensive use of data processing technologies such as data models and data mining to achieve the systematic, real-time, interactive information exchange, and extensive services of smart transportation.

The role of the display

As a carrier for displaying real-time traffic data information, the display screen is not only a screen for displaying data, but also the "smart eye" of urban traffic. It can collect, process and analyze data from various traffic nodes in real time, provide decision-making basis for managers, and provide citizens with a more convenient and safe travel environment.

Smart Transportation Applications
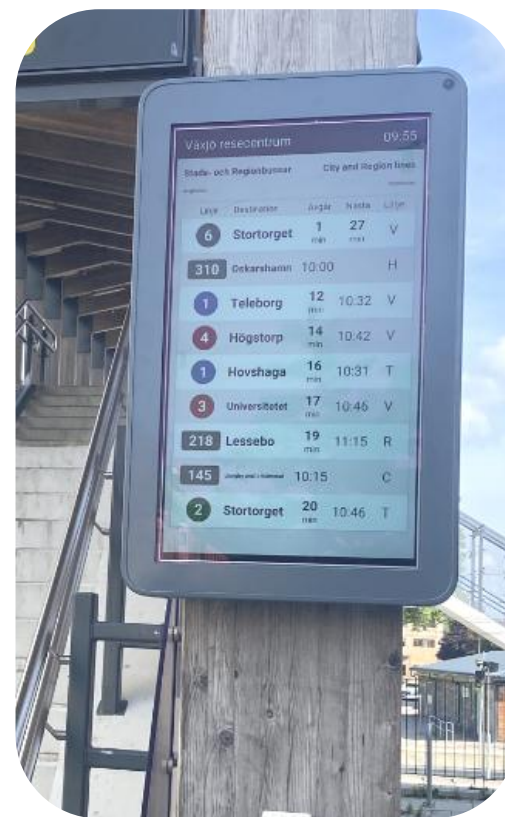
Bus Guidance Display
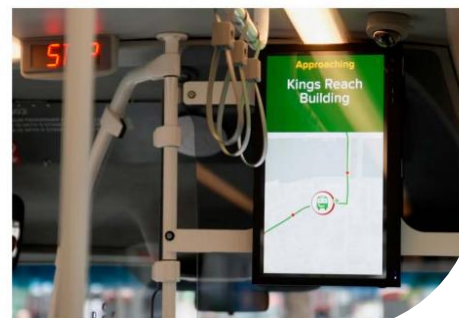
Subway Guidance Display

Electronic bus stop sign

13.3" 1200x1600
Eco-Friendly Display

55.0" 1080x1920
TFT LCD

32.0" 1080x1920
TFT LCD

31.2" 1440x2560
E-Paper Display

Smart Transportation Applications

Parking fee collection equipment

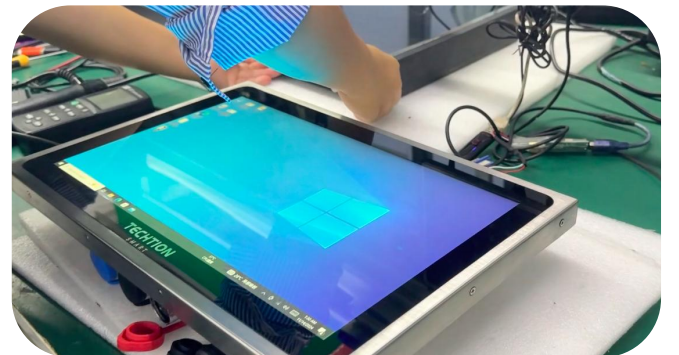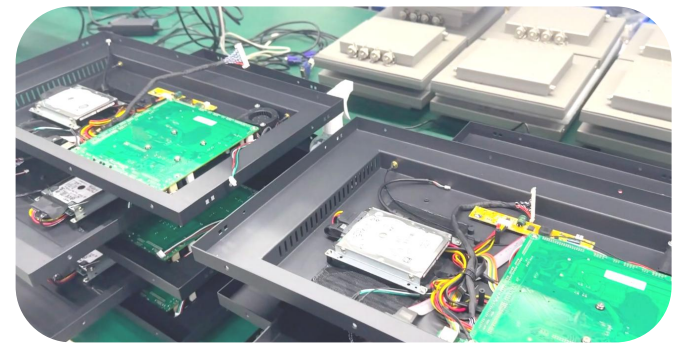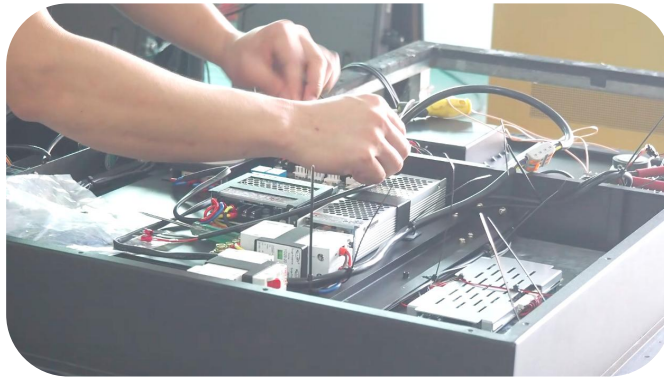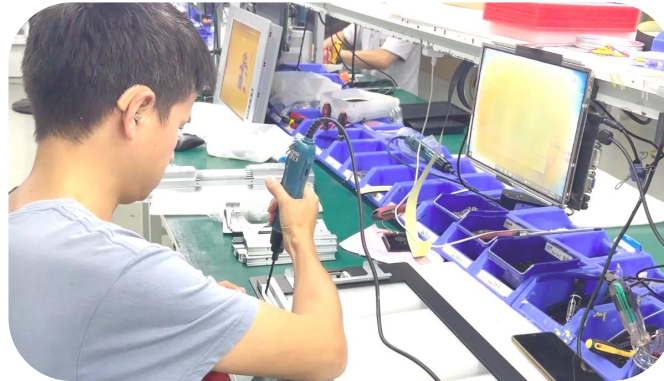Smart light pole display

Smart charging pile

04

TECHTION
SIMIART

Production Introduction

Production Workshop

Quality Control

Production Process

Incoming Material Inspection → Case Processing → LCD processing and pasting the TP

LCD processing and pasting the TP → Connecting the lcd and mainboard → First Test → Aging Test

Aging Test → Testing after aging → Assembling and mounting screws → Final Test

Final Test → Packing and Delivery

Quality Control Process

Purchase materials → ok → Warehouse temporary → ok → IQC inspection

IQC inspection → NG → QC policy

IQC inspection → ok → Refer and entering warehouse → ok → Tailoring and production → ok → First article inspection

First article inspection → NG → Tailoring and production

First article inspection → ok → Mass production → ok → FQC inspection → ok → IPQC inspection → ok → Packing

IPQC inspection → NG → Rework → ok → FQC inspection

Reliability Test

DC voltage regulator/ electronic load

Withstand voltage test

Static Electricity Test

48 hours aging test

Temperature and humidity test

Drop test

Simulated car vibration test
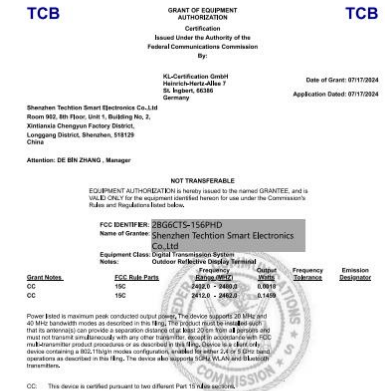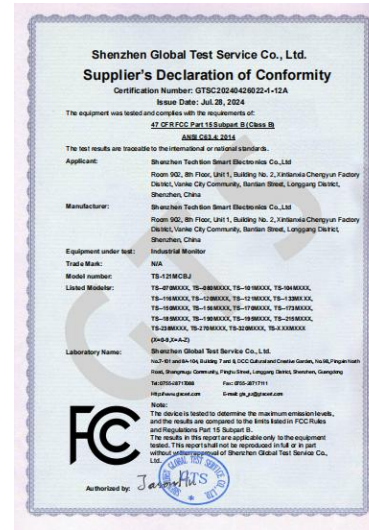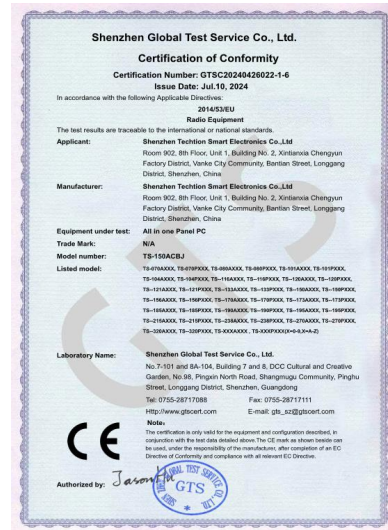
Salt spray test

Programmable rain test
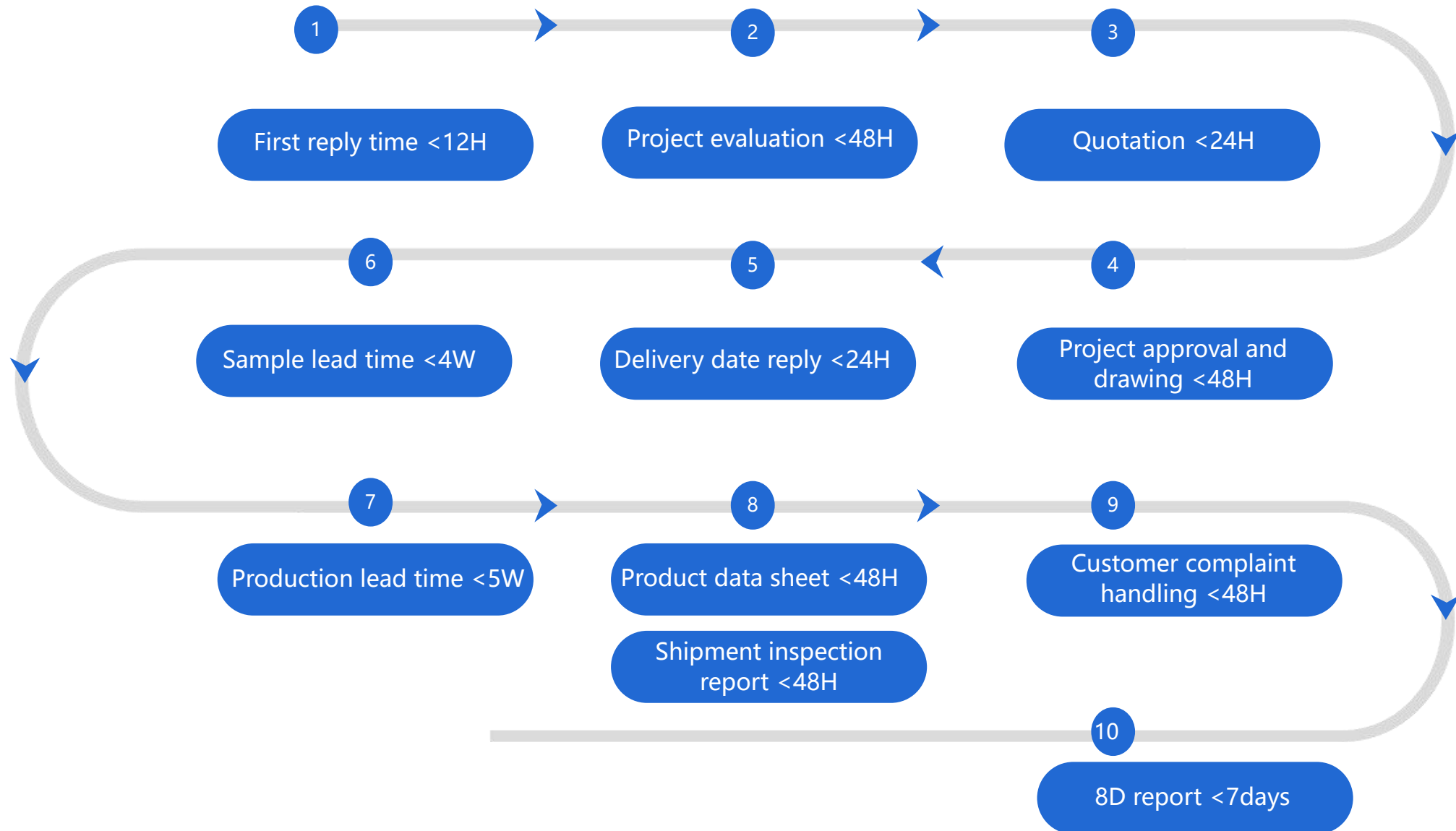
Programmable high and low temperature resistance test

TECHTION
SMART

Company Advantage

Product Qualification / Patent

Efficient Service Timeliness

1 First reply time <12H

2 Project evaluation <48H

3 Quotation <24H

4 Project approval and drawing <48H

5 Delivery date reply <24H

6 Sample lead time <4W

7 Production lead time <5W

8 Product data sheet <48H

Shipment inspection report <48H

9 Customer complaint handling <48H

10 8D report <7days

Customization Service

Wide Temperature -40°C-90°C	
High Brightness 1000-1500cd/m2	
Touch Screen Resistive/Capacitive/IR	
Light Sensor Auto dimming	

Wide Temperature
-40°C-90°C

High Brightness
1000-1500cd/m2

Touch Screen
Resistive/Capacitive/IR

Light Sensor
Auto dimming

Anti Glare

Vandal Proof
IPS, FHD Optional

Dimension
Customizable

Optical Bonding
Optional

System/Software
Customizable

Appearance
Aesthetic design

LOGO
logo sticker/silk printing

Mounting
Customizable

Anti-EMI
EMI test

Waterproof
IP65/IP67 optional

Shock-Proof
For special environment

Anti-corrosion
Special environment

Relay
conversion circuit

I/O Ports
Add I/O ports at requests

Wide Voltage
Anti voltage instability

Configuration
CPU/RAM/HDD/SSD

Customization Service

GPS
Global positioning

3G/4G Module
Wireless internet

Card Reader
Magnetic strips/IC

Infrared Sensor
Human IR induction

RFID Card Reader
Read IC/ID card

Built-in Camera
Auto focusing 200/500W

Thermal Printer
50/80mm receipts

ID Card Reader
Read ID information

WIFI Module
802.11b/a/g/n/ac optional

Fingerprint Reader
Attendance system

NFC Card Reader
Payment/access control

Bluetooth
Wireless data exchanging

Gravity Sensor
Screen H/V rotation

Built-in Battery
UPS

Built-in Microphone
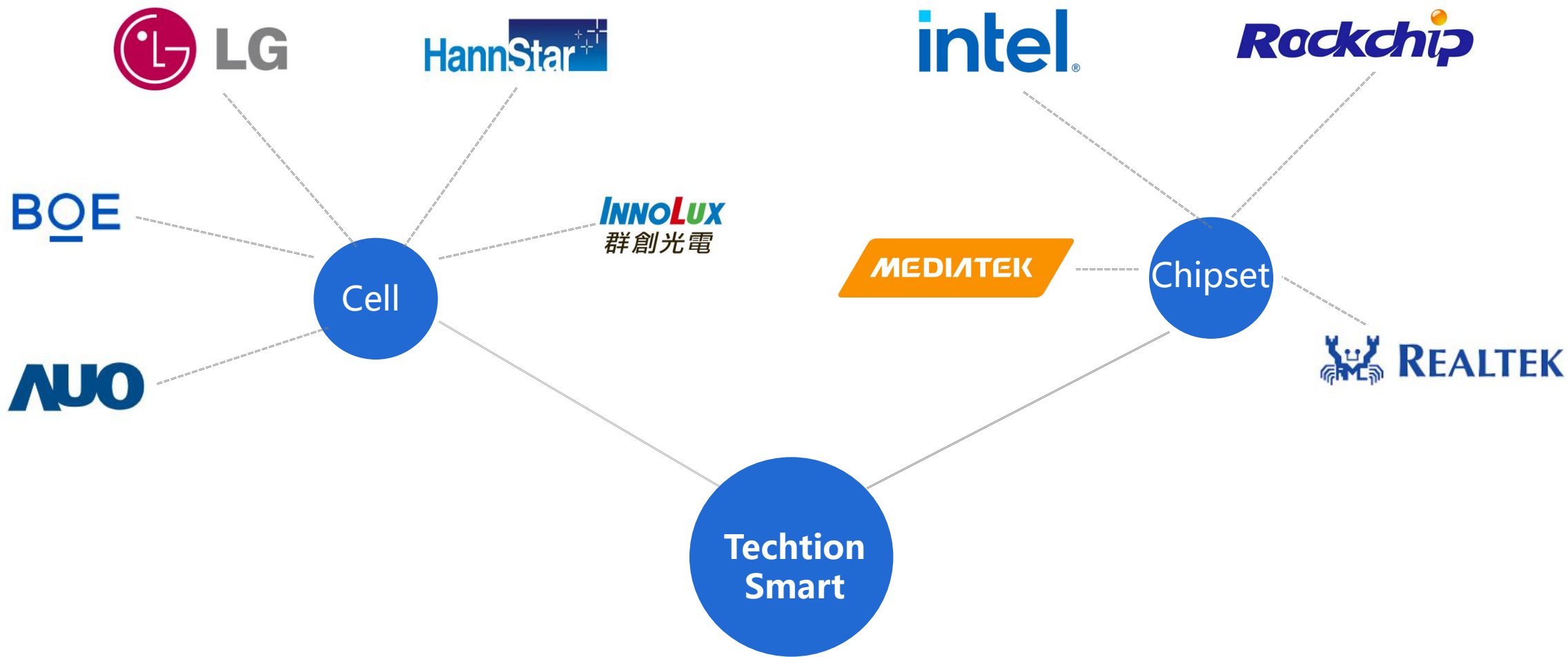Man-machine dialogue

Palmprint recognition
Biometric technology

Iris recognition
Andsecure identification

Scan module
Automatic recognition

TECHTION
SIMIART

Company Culture

Company Culture

Brand Culture

Vision: Display Green Smart Life

Mission: Your Reliable ECO-Friendly Display Terminal Partner

Core Value：Integrity, Sharing, Shared Responsibility, Win-Win

Philosophy

Business Philosophy：
Leading high-quality development with technology innovation

Management Philosophy:

team cohesion, focus on goals; result-oriented,

efficiency improvement, enthusiastic investment, efficient execution

R&D Philosophy: Gather wisdom, conduct in-depth research

and create bravely

Contact Us

Shenzhen Techtion Smart Electronics Co.,Ltd

Contact: Ms. Echo Hsiao
Tel: +86 755 84827079
Mob: +86 13172496164
Mail: sales@techtionsmart.com

www.techtionsmart.com

Address: Room 902, 8th Floor, Unit 1, Building No. 2, Xintianxia Chengyun Factory District, Vanke City
Community, Bantian Street, Longgang District, Shenzhen,China

THANKS FOR WATCHING

TECHTION
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Your Reliable ECO-Friendly Display Terminal Partner

Shenzhen Techtion Smart Electronics Co.,Ltd

www.techitonsmart.com