



Common goals

Info Kod and ZKONG join forces to provide Macedonian companies with modern, effective and easy-to-use solutions that support the development of retail trade in the 21st century. Together we want to create better conditions for the development of enterprises in Macedonia, introducing a new quality in information management at points of sale.



Access to the latest technologies

Thanks to the cooperation with ZKONG, Info Kod introduces one of the most modern ESL technologies to the Macedonian market. ZKONG electronic labels, based on the structure of the computing cloud and advanced wireless communication, enable dynamic price management and improvement of operational efficiency at points of sale.

Local support and experience

Info Kod, using the experience of its sales representatives with over 20 years of experience in the industry, perfectly understands the needs of the Macedonian market. We offer support at every stage of implementation, from consultation to after-sales service, fully adapted to local business realities.





Operational efficiency and cost reduction

ZKONG solutions help Macedonian companies reduce pricing errors, streamline merchandising processes and reduce operating costs. Automation of shelf information management saves time and resources, which translates into increased efficiency of companies.

Retail revolution

ZKONG products are designed to meet the needs of multi-sector trade, and their versatility makes them suitable for both large retail chains and smaller enterprises. Customers in Macedonia gain solutions tested on global markets that help meet the challenges of modern retail trade.





Global know-how in local hands

Cooperation with ZKONG allows Macedonian clients to benefit from global experience and innovative technological solutions, while also benefiting from local support and extensive business contacts of Info Kod.

Ecological approach

Electronic shelf labels are more environmentally friendly than traditional paper labels. They support waste reduction and fit into the growing expectations of the Macedonian market in terms of sustainable development.





About **ZKONG**

Achievements & Metrics

ZKONG Infokod

BEST CHOICE

Global Leading ESL Innovator

Owning a 40,000m² automated manufacturing factory, 50+ million annual production capacity.

40,000 m² Self-developed factory



Manufacturing & Production

ZKONG Infokod

Lead Time

2-4 Weeks Fast Delivery

Production Capacity

2,000,000 pieces / month





EPD&LC Product Intro

Solution Overview



HARDWARE DEVICES





EPD (E-paper Display)

Use efficient e-paper displays to provide clear, energy-saving, long-lasting pricing and product information and improve the shopping experience while saving energy.



LCD Display

With high brightness and vivid colors, LCDs are ideal for a variety of retail environments, providing customers with instant and eyecatching product information and promotions.



Wireless Base Station

Ensure stable and efficient communication between ESLs and system, support large-scale deployment and real-time data updates to create a reliable intelligent retail network.



Cloud ESL System

Leverages powerful data processing and analytics capabilities to enable retailers to intelligently manage inventory, pricing and promotions, improving operational efficiency and decision accuracy.

EPD (E-paper Display)





Zkong offers necessary functions such as dynamic pricing for the digitalization of various industries with our brilliant cloud ESL.

The combination of Bluetooth, Wi-Fi and cloud technology offers the most valuable solutions.

5 SERIES & 1 BASE STATION

Shield Blade Valley Series Series Series

Essence Series

Picking Label

Wireless Base Station Accessory



Shield Series



ZKONG Infokod

Dot Matrix EPD

- Multiple page switch
- A Black / White / Red
- Ordinary temperature 0°C-40°C/

 Low-temperature -25°C-25°C
- Bluetooth 5.1
- N) NFC
- ☐ LED Alert
- Battery Life Cycle: 5 to 10 years
 (Replaceable Battery)

All V-Series products now support 4-color!





ZKC21S | 2.13 " screen



ZK21SF | 2.13 " screen



ZKC27S | 2.7 " screen



ZKC26S | 2.66 " screen



ZK26SF | 2.66 " screen



ZKC29S | 2.9 " screen



ZKC37S | 3.7 " screen



Blade Series Slim

Dot Matrix EPD

ZKC22B | 2.2 " screen

ZKC29B | 2.9 " screen



4mm Ultra-thin





ZKC21B | 2.1 " screen





ZKC26B | 2.6 " screen



IP67 resistant (Optional)

Black / White / Red



Bluetooth 5.1



ZKC18B | 1.8 " screen





ZKC21BP | 2.1 " screen



ZKC26BP | 2.6 " screen

ZKC29BP | 2.9 " screen



ZKC42B | 4.2 " screen



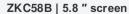
NFC



Battery Life Cycle 5-10 years

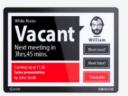








ZKC75B | 7.5 " screen



All V-Series products now support 4-color!

Valley Series



ZKONG Infokod

Dot Matrix EPD



- A Black / White / Red
- Ordinary temperature 0°C-40°C/
- Bluetooth 5.1
- N) NFC
- ₩ LED Alert
- Battery Life Cycle: 5 to 10 years
 (Replaceable Battery)

All V-Series products now support 4-color!

ZKC15V | 1.54 " screen















ZKC35V | 3.5 " screen



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Valley Series



Dot Matrix EPD

ZKC75V | 7.5 " screen





ZKC116V | 11.6 " screen



ZKC102V | 10.2 " screen





Valley Series

Dual Screen



- Dual screen
- Black / White / Red (Yellow)
- Ordinary temperature 0°C-40°C
- Bluetooth 5.1
- NFC
- LED
- Battery Life Cycle: 5 to 10 years (Replaceable Battery)



All V-Series products now support 4-color!

Essence Full Color Series Multi-color













- Ultra-high reduction rate
- Multi-page switching
- Black White Red Yellow / Full color
- Temperature 0°C-40°C
- Bluetooth 5.1
- **NFC**
- LED
- Battery life: 5 to 10 years (replaceable battery)







ZKC58V-E7 | 5.8 " screen



ZKC133V-E7 | 13.3 " screen



Picking Label

Fast positioning through ESL positioning and LED equipment, warehouse managers can quickly locate specific goods via the software platform, improving the efficiency of inbound and outbound management.



- Temperature 0°C-40°C
- Rluetooth 5.1
- N) NFC
- ii. LED
- Battery Life Cycle: 5 years



Wireless Base Station





High scalability

Unlimited labels can be managed by a single base station



Multi-network mode

Supports Gigabit LAN, WIFI, CAT1



Security and stability

AES (Advanced Encryption Standard)
128-bit encryption secures the system
with security and stability



Easy installation

Easy installation and BST connection to the Internet, automatic activation to the cloud, automatic connection to all ESL and remote control via Bluetooth



Superior coverage

Up to 700 m² indoor coverage per base station and 40 meters range in an unobstructed environment



Custom IoT protocols

Supports various IoT protocols like BLE, Sub1GHz, Wi-Fi etc. for different customizations





ZAP-C Pro



Accessory





Waterproof Shells



Clamp



Ice plug

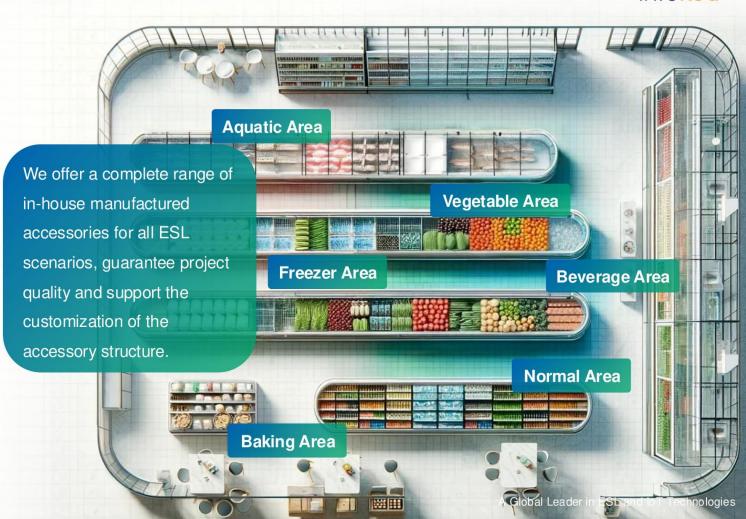




rails



Ornament



Advantages



Update in Seconds

Update price, QR code, product images and other information within 3 seconds via ESL system

Page-changing Automatically

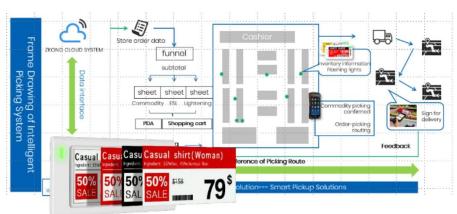
Set up in advance to support scheduled, automatic content switching, daily updates and page rotation features

Automatic Stock Change & Intelligent Picking

Connect to the system platform and provide picking route reference through IoT technology to dock price tag LEDs to determine the destination. PDA operation supported

Bluetooth 5.1

Embedded in self-developed private protocol, lower power consumption and wider application (AOA precise positioning, ibeacon)





LCD Display



More than you can imagine Just a sight!

Start with Cloud Thinking Innovation with Cloud Architecture

2 SERIES

Sparkle Series

Legendary Series

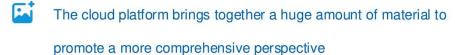


Sparkle Series

LCD Display



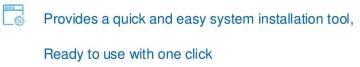












7*24 hours full-time broadcast

Wireless transmission: Wi-Fi/Bluetooth



ZKS101/ZKS101D I 10.1" LCD





ZKS101-A/ZKS101D-A I 10.1" LCD





ZKS135 I 13.5" LCD





ZKS140-A/ZKS141D-A I 14.1" LCD





ZKS156-A I 15.6" LCD





Legendary Serie

LCD Display





ZKL350 I 35" LCD



ZKL470 I 47" LCD





Ultra-clear full-color display with excellent picture quality Supports image and video formats













ZKL290 I 29" LCD



ZKL356 I 35.6" LCD







ZKONGInfokod



Advantages



Full-color dynamic display

HD full-color display | High resolution | Colorful quality

Support any display strategy, video playback, partial flashing, scrolling display, fast page turning and other file formats in a free combination

- · Maximize the effective display area
- Ultra-thin design with 7.1mm screen bezel

Double-sided connection

2-sided LCD | Multi-screen syndication | Unlimited bezel

- Durable devices with wired power supply
- Special power supply rails, hooks and other accessories
- Easy installation with one click

Track the origin of goods

Origin, supplier, test results, shelf life...

Convenient selection

Product name, price, matching products...

Application suggestions

Storage methods,

Methods and seasonal combinations

Custom LCD frame

ZKONG APP:

- Supports split screen
- Multi-product display
- Custom texts, images, videos
- · A variety of templates, linked to
- Multiple screens in the store
- additional equipment



Varied information display

Intelligent LCD Solution





*Used for daily advertising Ads, videos, posters, images



Connected with AI camera to customize playback in real time according to customer needs

- 1. Al camera recognizes customer behavior and plays product promotional videos
- 2. Automatically recognize customer gender and age and promote ads that customer may be interested in



*The middle level LCD display supports the price label style to facilitate the display of product information

Face Recognition

Identify the user's age and gender to play targeted videos







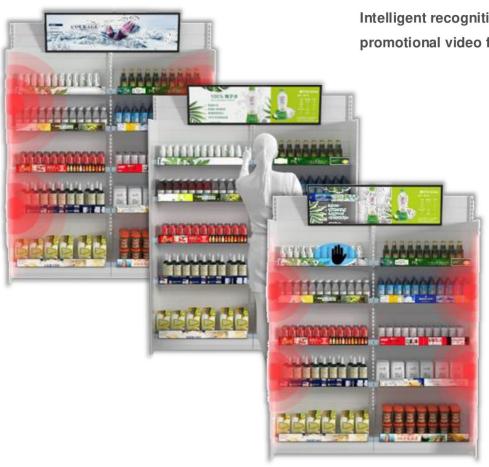
Standard video is played in a loop if the camera does not detect the approach of a customer

Detect the age and gender of a customer by proximity when capturing them and play an advertising video accordingly (freely configurable in the cloud)

Identify data stored in the cloud to create reports. Help count the preferences of different genders and age groups and adapt their strategies

Smart Interaction





Intelligent recognition of the product touched by the customer through motion perception. A promotional video for this product is played on the LCD.

Sensor Equipped

Infrared sensor strips are installed on both sides of the shelves and connected to the LCD screen via USB. When there is no customer interaction, the LCD plays content set by the system.

Identification
Customers approach th

Customers approach the shelves and when they find an interesting item, they reach for the item to view the details

Videos Auto-play

The infrared sensor strip detects the product picked up by the customer and plays a promotional video for that product

Product Management



Product from Inventory recognition

n

Intelligent generation of ad suggestions



Out of stock, display error flashing light alarm

Statistics on product identification

6

Missing SKU under 70 SKUs **5** +

Wrong price label

\$ 2.55

average price

1.84

Sold out 1.84/sku/day \$ 1500

loss of \$1500 in sales revenue



Software Platform

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ZKONG Cloud ESL System



One Stop Cloud Service

Integrated ESL, LCD and AI intelligence modules

Shop Management

Cloud-based management of all shops with uniform setup of ESL, LCD and other devices

Flexible Data Interfacing

Various API interfaces to enable data exchange at different business levels

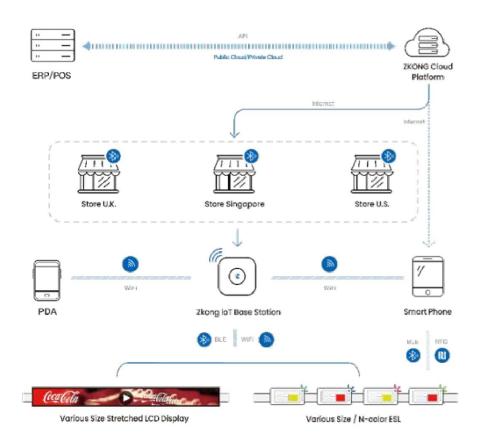
Fast Update

Simultaneous update of ESL and LCD in all shops,

15 minutes for branch-wide switchover

ZKONG Cloud architecture solves the problem of duplicate store deployments and significantly reduces server and daily operation and maintenance costs.

Pioneering SaaS Platform



Cloud Platform Management



Cloud Server

Use cloud architecture (SaaS) to respond to the digital needs of smart retail and deploy it worldwide without installation.

Flexible Deployment

It meets multiple deployment models such as group layout, enterprise-level layout and single-point layout.

Easily Docking

Easily connect the Zkong system with the customer's via the API interface.

Unlimited Capacity

With the ability to process billions of pieces of information and endless storage, we can meet the growing data needs of businesses.



Customized Template

Visible design, highly customizable, not limited by content format and change times, use immediately after editing.

Interface Opened

Support various ERP, API and custom developments with specific requirements so that data can operate efficiently in the same system.

Safe and Reliable

AES 128-bit encryption technology for information security and data protection.

Secondary Development

Secondary development gives the software and hardware new functions, offering users a new, tailor-made solution.

Advantages of SaaS



Easy to use

Verwendung des Saas-Systems Multi-User-Nutzung ohne lokale Installation



Performance liberation

CDie Berechnungskapazität kann durch Servererweiterung unendlich überlagert werden - Keine Ressourcenbesetzung



Universalness

Kompatibel mit den wichtigsten Betriebssystemen wie Linux und Windows





Adopt B/S architecture



Security

Data storage in the cloud You don't have to worry about data loss due to a local server failure



Extensiveness

Based on WAN to support users around the world



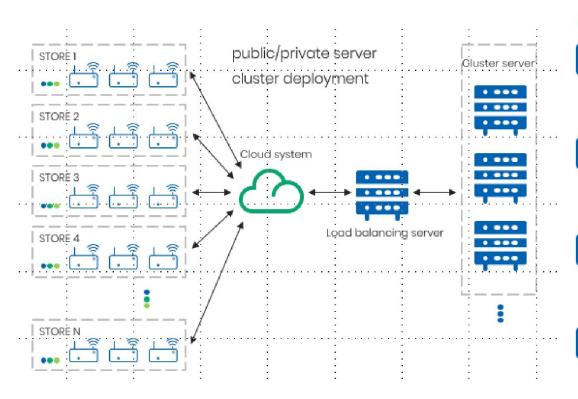
Low cost

Reduction of software and hardware costs through the increased capacity of the Loval server

Data Processing & Expansion



Zkong ESL system uses real cloud services and management, allowing unlimited expansion of server deployments. All processing tasks are done in the cloud to meet the needs of billions of ESL management.



Advantages

Variable Capacity

The number of servers can be expanded indefinitely to improve performance.

High Throughput

Achieve high concurrent processing of tasks by reducing the pressure on a single server.

High Availability

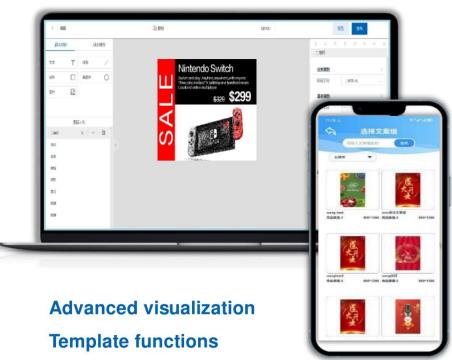
If a single server fails, the system dynamically assigns tasks to other servers to ensure functionality.

Low Cost

The server can achieve higher utilization rate to reduce the number of servers and cost with the clustering method and balancing algorithm.

Simple Operation





- 1. Visualization templates
- 2. Minimalist UI with real-time preview
- 3. Support for PC, APP and small programs
- 4. Unlimited fonts, unlimited number
- 5. Comes with the system, no installation required





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Why ZKONG?

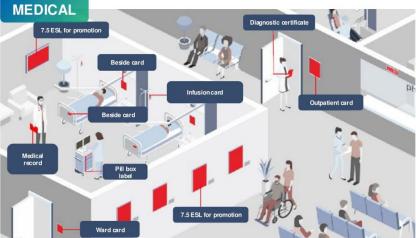


Industries Overview











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Intelligentes Management



With a monthly production capacity of over 1.5 million pieces, our own supply chain has the potential to easily meet the demand of the global market.





Fully automated production lines

- ZKONG has SMT/DIP lines, injection molding and assembly lines, which means ZKONG is able to manufacture complete machines while maintaining high quality and performance.
- The in-house production line enables ZKONG to customize each product according to the customer's flexible customization needs and provide the customer with a cost-effective product.

Digital Production Management

With the MES + ERP digital management system, ZKONG is able to clearly track the details of each part in the production line to ensure the best quality of each part, while accurately tracking production problems to ensure timely correction and improvement of products and reduce costs.

Variety of Customization









Logo/Multi-color customization



Free Choice!
According to your brand identity and your product



Custom border/logo screen printing



Variety of Customization





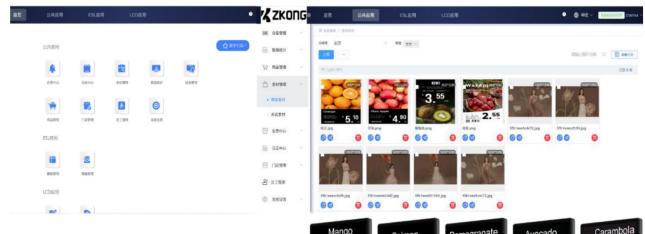
Customization of accessories



We offer a full range of in-house manufactured accessories for all ESL scenarios, guarantee project quality and support the customization of accessory structure.



Adaptation of the cloud platform







Service for Partner



Project Support

Top-level engineering team and production line to support project development

Training Mechanism

Providing online, offline and on-site training programs for all ESL users

Maintain and Upgrade

Support after-sales maintenance for the international market includes system upgrades.



Solution Consultant

Consulting for the best practical solution for each industry

Marketing Service

Providing the latest industry news, market information and designs, and promotional tools

Install and Pre-run

A complete set of installation and preproduction projects to ensure smooth use



SUCCESS CASES

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Product & Service



Cooperate With

1,000+
World Leading Brands

100,000+

Retail Stores

60+

Countries

We provide services to retailers in cosmetics, electronics, pharmaceuticals and logistics while exploring other applications to unlock the unlimited potential of smart retail. Chain Store New Retail Cosmetic Electronics Pharmacy **Logistics**

International Brands















































































































































Macedonian Brands







Chain Store



Cosmetic



Pharmacy



Logistics













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Thanks for your attention.