

Retail Interactive Technology Solutions Pty Ltd

Interactive electronic shelf label system

Transforming retail business for the future

Ray Fien

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Who we are

Retail Interactive Technology Solutions Pty Limited (Retail Interactive) is an Australian private company located in the Brisbane Technology Park in Queensland.

Retail Interactive was founded after three senior level management professionals and business owners exited their respective professions and business environments to pursue an opportunity to provide leading Interactive Electronic Shelf Label (iESL's) to large Australian retailers.

The iESL System provides Retail Business Intelligent Tools with advanced technology retail store management software and interactive multi-functional hardware solutions to the retail business sector.





Background

During May 2015 the founders of Retail Interactive were introduced to Hanshow Technology Co. Limited (Hanshow) and their proprietary ESL System.

Since that introduction the founders of Retail Interactive began to conduct extensive international and domestic market research and analysis as well as making direct contact with various large retailer representatives in order to gauge and assess the possible demand, suitability and acceptance of an ESL System.

The experience internationally revealed that a number of large retailers located throughout Asia, Europe, Canada, and the United States of America have successfully trialled ESL Systems, and then implemented the technology throughout their retail store network. The overwhelming reason for this is due to the impact of the highly competitive and dynamic international and on-line retailers who are rapidly acquiring market share from the traditional off-line or bricks and mortar stores.

As ESL Systems are non-existent in Australia, and a growing number of international off-line (bricks and mortar stores) and on-line retailers continue to enter the Australian retail market, the need and demand for solutions that allow Australian retailers to compete with these international off-line (bricks and mortar stores) and on-line retailers will continue to increase with the ESL System being perfectly positioned to provide the solution.





Our partnership



Retail Interactive began to form a longer-term relationship with Hanshow not only because of their ESL System but also because of their desire to become an active and fully supportive business partner, their professionalism, creditable business approach, and rapid expansion into not only the Asian retail market but also Europe, and more recently Canada.

Our formal partnership with Hanshow provides Retail Interactive with a very dedicated, and experienced Sales, Support, Manufacturing, Software, Hardware, and Research & Development team of more than 350 employees.

Hanshow has now become the most complete end to end iESL software and hardware supply chains in the world.

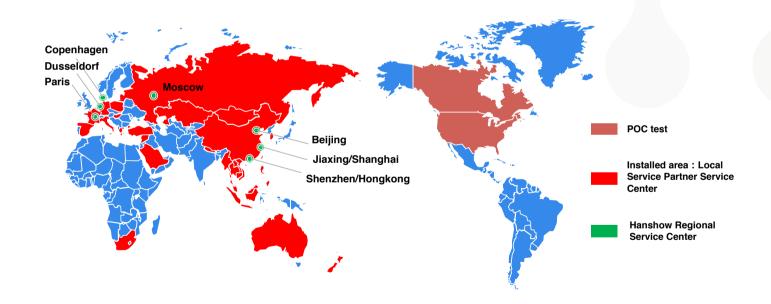
In the last few years Hanshow has grown rapidly in the global market and has established its reputation in the international retail industry in more than 40 countries.

This rapid expansion is supported by international offices in Beijing, Jiaxing, Suzhou, Shenzhen, Shanghai, Denmark, France, Germany, and a comprehensive network of partners in 58 countries.



Our worldwide service network Hanshow







Partner eco-system





As one of world leading providers for intelligent devices, Hanshow has a solid supplier ecosystem and is capable to launch new innovative projects by working together with our clients closely.

In the era of big data, as a practical digital store provider, we integrate different third-party partners to create value for our clients.

Our collaboration with world-wide retailers allows us to provide valuable suggestions to our clients.

Aiming to be the leading new retail solution provider by integrating technologies of big data, Al and other smart devices.



Our international customers



















































Our Chinese customers



Region	Major Clients
Eastern China	(分) 永辉超市
Central China	○ 55
Southern China	WARRY WARRY WARRY TO THE PRINCE T
Northern China	② 初美 単京宮隆 撃撃化冠 デース N M M M M M M M M M M M M M M M M M M
Greater China (HK, Taiwan)	Watsons 尼任氏 SOSOI.com
New Retail	○ 盒马 ↑ 銀泰直货 录象生態 C 共程 意思 京东 ⑥ 超级物种 Funfalk 系统



What we can offer

Our iESL System:

- is paperless and will replace the current requirement for paper price labels to be purchased, printed, and manually replaced every time product information and sales pricing is changed.
- has digital displays which can include full graphics with three colour options, LED flash light with three colour options, and bluetooth beacon functionality.
- network infrastructure has been designed to operate independently and require minimal changes to existing in-store inventory shelving and displays, and existing computer network systems and hardware.
- can be easily scaled to cover large store floor areas, and multiple store locations, and will allow
 the remote control over the digitally displayed information across a single store, or multiple
 stores, in any location, in real time.

This means retailers can react quickly to competitor sales promotions, determine if in-store promotions are effective, display detailed product information and offers either direct to customers, or their smartphones by QR codes or by bluetooth beacon based on their location in-store, more easily mark downgoods to maximise margins for old/discontinued or perishable stock, while reducing stock write-offs and wastage, and display product and merchandising information to your staff to help improve operational efficiencies.





iESL benefits

More efficient and cost effective pricing

- iESL's are paperless an do not need to be printed and manually replaced.
- Price changes can be affected across any number of inventory items located in any number store locations on-demand and in real time.
- Dynamic pricing will improve market competitiveness and increase profitability by optimizing margins.
- iESL's will synchronise pricing on the shelf to point of sale systems and eliminate differences due to manual input errors.

Management optimisation

- Improve inventory and shelf management by indicating low inventory levels, displaying inventory on hand and restocking quantities, as well as slow moving inventory
- More efficient in-store picking for 'Click and Collect' by using planograms, in-store digital navigation, 'picking route' optimisation while indicating the inventory items to be picked.







iESL benefits (Continued)

Operantional efficiency

- React to competitor promotional strategies quickly by having the iESL System to allow immediate price changes and sales promotion advertising.
- QR codes can displayed and used by customers with their smartphones to either apply or obtain on-line coupons for discounts or incentives when purchasing products, related products, and accessories or for purchases on the future.
- QR codes can also be used to provide alternative paymentmethods which will result in a more efficient payment process.

Customer experience

- The iESL display is customisable can have up to 8 templates. These templates can display more detailed product information, and various sales and promotional offers. The templates can also display QR codes which can allow customers to access more detailed product information available on-line. This provides an interaction and experience with the customer which will be the same whether they are purchasing on-line or in-store. This information may be product details and specifications, sales price, current promotions, and comparisons of the same with similar products. This allows the customer the opportunity to make informed purchasing decisions.
- The in-store 'Easy Search' 'Easy Find' ability for customers is facilitated by using planograms, and in-store digital navigation to provide an accurate route to inventory locations.

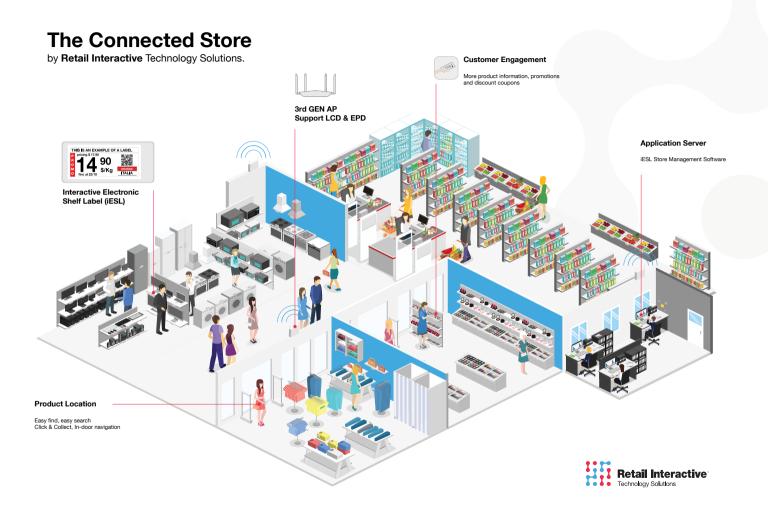
iESL benefits (Continued)

Marketing influence

- Australian retailers that introduce our iESL System will not only benefit financially, and improve their retail sales operations, but also build their brand reputation by becoming a leader of retail business technology that offers a complete and focused in-store customer experience that will transform their retail business.
- Sales and promotional strategies can be employed so quickly that your retail business will cease being reactionary to the competition and become a dominant leader of sales promotion and pricing.
- The use of QR codes in marketing campaigns can be recorded, measured, and reported to show whether the campaigns were effective.
- The iESL System is the bridge towards omni-channel retail business and the IOT which allows retailers to be prepared for the future.







Flectronic Shelf Label Technical Data 1 Model ² Stellar-STN 1.5" Stellar-S3TN 1.5" Stellar-S3YTN 1.5" SPECIAL SUMMER PROMO Lip Balm 0 Treatment Ampoules ANESSA ncreen milk SPF 50+ Mini. Rosv 7x0.03 fl.oz. 0.25 oz 90ml Dimensions (WxHxD) 48 x 35 x 15.8mm 48 x 35 x 15.8mm 48 x 35 x 15.8mm 1.5" 1.5" 1.5" Display size Weight 27a 27a 27a Display type E-Ink, Bi-Stable, Graphic, Black, White, Led E-Ink, Bi-Stable, Graphic, Black, White, Red. E-Ink, Bi-Stable, Graphic, Black, White, Flash, NFC Led Flash, NFC Yellow, Led Flash, NFC Orientation Landscape or Portrait Landscape or Portrait Landscape or Portrait Viewing angle Near 180° viewing angle Near 180° viewing angle Near 180° viewing angle Appearance Standard, white bezel front Standard, white bezel front Standard, white bezel front Unit identifier barcode Right side Right side Right side Operating temperature range 0°C to 30°C 0°C to 30°C 0°C to 30°C Update time Up to 18,000 labels per hour Up to 18,000 labels per hour Up to 18,000 labels per hour Battery life 3 5 years (1 update per day) 5 years (1 update per day) 5 years (1 update per day) Replaceable batteries 1 x CR2477 (1,000 mAh) 1 x CR2477 (1,000 mAh) 1 x CR2477 (1,000 mAh) ESLs attach securely to our shelf-rails and ESLs attach securely to our shelf-rails and ESLs attach securely to our shelf-rails and Accessories accessories are also available for common accessories are also available for common accessories are also available for common fixtures and fittings. fixtures and fittings. fixtures and fittings. Communications 2.4 GHz Band 2-way wireless 2.4 GHz Band 2-way wireless 2.4 GHz Band 2-way wireless



^{1.} ESL Technical Data is subject to change at Retail Interactive's discretion.

^{2.} ESL Labels are covered by a 12 month manufacturer's warranty, which is in addition to and does not limit any Australian Consumer Law rights. An extended warranty can be provided at an additional cost. Please refer to Retail Interactive for details.

Electronic Shelf Label	Technical Data 1			
Model ²	Stellar-MN 2.1"	Stellar-M3N 2.1"	Stellar-MFN 2.1"	Stellar-MFN 2.1"
	Babybe I	BLUETOOTH HEADPHONES OVER EAR One road quality © 34-99	***	KitchenAld Gostmet Steel Stainless Steel With Albart 48 menss *****:
Dimensions (WxHxD)	70 x 35 x 13.2mm	70 x 35 x 13.2mm	70 x 35 x 14.5mm	70 x 35 x 13.2mm
Display size	2.1"	2.1"	2.1"	2.1"
Weight	35g	35g	37g	35g
Display type	E-Ink, Bi-Stable, Graphic, Black, White, Led Flash, NFC	E-Ink, Bi-Stable, Graphic, Black, White, Red, Led Flash, NFC	E-Ink, Bi-Stable, Graphic, Black, White, Red, Led Flash, NFC	E-Ink, Bi-Stable, Graphic, Black, White, Yellow, Led Flash, NFC
Orientation	Landscape or Portrait	Landscape or Portrait	Landscape or Portrait	Landscape or Portrait
Viewing angle	Near 180° viewing angle	Near 180° viewing angle	Near 180° viewing angle	Near 180° viewing angle
Appearance	Standard, white bezel front			
Unit identifier barcode	Right side	Right side	Right side	Right side
Operating temperature range	0°C to 30°C	0°C to 30°C	-20°C to 0°C	0°C to 30°C
Update time	Up to 18,000 labels per hour			
Battery life ³	5 years (4 updates per day)			
Replaceable batteries	2 x CR2450 (1,100 mAh)			
Accessories	ESLs attach securely to our shelf- rails and accessories are also available for common fixtures and fittings.	ESLs attach securely to our shelf- rails and accessories are also available for common fixtures and fittings.	ESLs attach securely to our shelf- rails and accessories are also available for common fixtures and fittings.	ESLs attach securely to our shelf- rails and accessories are also available for common fixtures and fittings.
Communications	2.4 GHz Band 2-way wireless			



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Electronic Shelf Label Technical Data 1					
Model ²	Stellar-XMN 2.66"	Stellar-XM3N 2.66"	Stellar-XM3YN 2.66"		
	Original Ice Cream, Vanilla	8abybei 2.70	CRGANIC VIRGIN 3.2 CANCES COCONLIT OIL € 8.20		
Dimensions (WxHxD)	84.03 x 41.03 x 13mm	84.03 x 41.03 x 13mm	84.03 x 41.03 x 13mm		
Display size	2.6"	2.6"	2.6"		
Weight	41g	41g	41g		
Display type	E-Ink, Bi-Stable, Graphic, Black, White, Led Flash, NFC	E-Ink, Bi-Stable, Graphic, Black, White, Red, Led Flash, NFC	E-Ink, Bi-Stable, Graphic, Black, White, Yellow, Led Flash, NFC		
Orientation	Landscape or Portrait	Landscape or Portrait	Landscape or Portrait		
Viewing angle	Near 180° viewing angle	Near 180° viewing angle	Near 180° viewing angle		
Appearance	Standard, white bezel front	Standard, white bezel front	Standard, white bezel front		
Unit identifier barcode	Right side	Right side	Right side		
Operating temperature range	0°C to 30°C	0°C to 30°C	0°C to 30°C		
Update time	Up to 18,000 labels per hour	Up to 18,000 labels per hour	Up to 18,000 labels per hour		
Battery life ³	5 years (4 updates per day)	5 years (4 updates per day)	5 years (4 updates per day)		
Replaceable batteries	2 x CR2450 (1,100 mAh)	2 x CR2450 (1,100 mAh)	2 x CR2450 (1,100 mAh)		
Accessories	ESLs attach securely to our shelf-rails and accessories are also available for common fixtures and fittings.	ESLs attach securely to our shelf-rails and accessories are also available for common fixtures and fittings.	ESLs attach securely to our shelf-rails and accessories are also available for common fixtures and fittings.		
Communications	2.4 GHz Band 2-way wireless	2.4 GHz Band 2-way wireless	2.4 GHz Band 2-way wireless		



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Flectronic Shelf Label Technical Data 1 Model ² Stellar-LN 2.9" Stellar-L3N 2.9" Stellar-L3YN 2.9" FRESH TAST Fresh Tasty ORANGES ORINGIN: ISRAEL JAFFA. 2K Dimensions (WxHxD) 91 x 41 x 13.1mm 91 x 41 x 13 1mm 91 x 41 x 13 1mm Display size 2.9" 29" 2.9" Weiaht 44.2a 44.2a 44.2a Display type E-Ink, Bi-Stable, Graphic, Black, White, Led E-Ink, Bi-Stable, Graphic, Black, White, Red, E-Ink, Bi-Stable, Graphic, Black, White, Flash, NFC Led Flash, NFC Yellow, Led Flash, NFC Orientation Landscape or Portrait Landscape or Portrait Landscape or Portrait Viewing angle Near 180° viewing angle Near 180° viewing angle Near 180° viewing angle Appearance Standard, white bezel front Standard, white bezel front Standard, white bezel front Unit identifier barcode Right side Right side Right side 0°C to 30°C Operating temperature range 0°C to 30°C 0°C to 30°C Update time Up to 18,000 labels per hour Up to 18,000 labels per hour Up to 18,000 labels per hour Battery life 3 5 years (4 updates per day) 5 years (4 updates per day) 5 years (4 updates per day) Replaceable batteries 2 x CR2450 (1.100 mAh) 2 x CR2450 (1.100 mAh) 2 x CR2450 (1.100 mAh) Accessories ESLs attach securely to our shelf-rails and ESLs attach securely to our shelf-rails and ESLs attach securely to our shelf-rails and accessories are also available for common accessories are also available for common accessories are also available for common fixtures and fittings. fixtures and fittings. fixtures and fittings. Communications 2.4 GHz Band 2-way wireless 2.4 GHz Band 2-way wireless 2.4 GHz Band 2-way wireless



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^{3.} A full replacement warranty for a 5 year battery life can be provided at an additional cost.

Flectronic Shelf Label Technical Data 1 Model ² Stellar-XLN 4.2" Stellar-XL3N 4.2" Stellar-XL3YN 4.2" Organic Sweet Corn Tomates Dimensions (WxHxD) 104.8 x 94 x 11.8mm 104.8 x 94 x 11.8mm 104.8 x 94 x11.8mm 4.2" Display size 4.2" 4.2" Weight 115a 115a 115a E-Ink, Bi-Stable, Graphic, Black, White, Led E-Ink, Bi-Stable, Graphic, Black, White, Red, E-Ink, Bi-Stable, Graphic, Black, White, Display type Flash, NFC Led Flash, NFC Yellow, Led Flash, NFC Orientation Landscape or Portrait Landscape or Portrait Landscape or Portrait Near 180° viewing angle Near 180° viewing angle Viewing angle Near 180° viewing angle Appearance Standard, white bezel front Standard, white bezel front Standard, white bezel front Unit identifier barcode Bottom front Bottom front Bottom front Operating temperature range 0°C to 30°C 0°C to 30°C 0°C to 30°C Update time Up to 18,000 labels per hour Up to 18,000 labels per hour Up to 18,000 labels per hour Battery life 3 5 years (4 updates per day) 5 years (4 updates per day) 5 years (4 updates per day) Replaceable batteries 4 x CR2450 (2,200 mAh) 4 x CR2450 (2,200 mAh) 4 x CR2450 (2,200 mAh) Accessories ESLs attach securely to our shelf-rails and ESLs attach securely to our shelf-rails and ESLs attach securely to our shelf-rails and accessories are also available for common accessories are also available for common accessories are also available for common fixtures and fittings. fixtures and fittings. fixtures and fittings. Communications 2.4 GHz Band 2-way wireless 2.4 GHz Band 2-way wireless 2.4 GHz Band 2-way wireless



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Flectronic Shelf Label Technical Data 1 Model ² Stellar-XLN 5.8" Stellar-XL3N 5.8" Tomates ACRYLIC GEOMETRIC DISPENSER Acrylic dispenser with a polygonal base € 33.50 REF. 5636/466 17.0 X 9.0 X 9.0 CM ************ Dimensions (WxHxD) 138.2 x 113.6 x 12.35mm 138.2 x 113.6 x 12.35mm 5.8" 5.8" Display size Weight 165.5q 165.5q E-Ink, Bi-Stable, Graphic, Black, White, Led Flash, NFC E-Ink, Bi-Stable, Graphic, Black, White, Red, Led Flash, NFC Display type Orientation Landscape or Portrait Landscape or Portrait Viewing angle Near 180° viewing angle Near 180° viewing angle Appearance Standard, white bezel front Standard, white bezel front Unit identifier barcode Bottom front Bottom front Operating temperature range 0°C to 30°C 0°C to 30°C Update time Up to 18,000 labels per hour Up to 18,000 labels per hour Battery life 3 5 years (4 updates per day) 5 years (4 updates per day) Replaceable batteries 4 x CR2450 (2,200 mAh) 4 x CR2450 (2,200 mAh) ESLs attach securely to our shelf-rails and accessories are ESLs attach securely to our shelf-rails and accessories are Accessories also available for common fixtures and fittings. also available for common fixtures and fittings. Communications 2.4 GHz Band 2-way wireless 2.4 GHz Band 2-way wireless



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Flectronic Shelf Label Technical Data 1 Model ² Stellar-XXXLN 7.5" Stellar-XXXL3N 7.5" Stellar-XXXL3YN 7.5" SPECIAL OFFER Nintendo[®] The sunshine PINEAPPLE Nintendo Switch ruby ring Pikachu & Eevee Edition Dimensions (WxHxD) 183.9 x 126.9 x 13.2mm 183.9 x 126.9 x 13.2mm 183.9 x 126.9 x 13.2mm 7.5" Display size 7.5" 7.5" Weight 270g 270q 270g E-Ink, Bi-Stable, Graphic, Black, White. Led E-Ink, Bi-Stable, Graphic, Black, White, Red, E-Ink, Bi-Stable, Graphic, Black, White, Display type Flash, NFC Led Flash, NFC Yellow, Led Flash, NFC Orientation Landscape or Portrait Landscape or Portrait Landscape or Portrait Near 180° viewing angle Near 180° viewing angle Viewing angle Near 180° viewing angle Appearance Standard, white bezel front Standard, white bezel front Standard, white bezel front Unit identifier barcode Bottom front Bottom front Bottom front Operating temperature range 0°C to 30°C 0°C to 30°C 0°C to 30°C Update time Up to 18,000 labels per hour Up to 18,000 labels per hour Up to 18,000 labels per hour Battery life 3 5 years (4 updates per day) 5 years (4 updates per day) 5 years (4 updates per day) Replaceable batteries 6 x CR2450 (3,300 mAh) 6 x CR2450 (3,300 mAh) 6 x CR2450 (3,300 mAh) Accessories ESLs attach securely to our shelf-rails and ESLs attach securely to our shelf-rails and ESLs attach securely to our shelf-rails and accessories are also available for common accessories are also available for common accessories are also available for common fixtures and fittings. fixtures and fittings. fixtures and fittings. Communications 2.4 GHz Band 2-way wireless 2.4 GHz Band 2-way wireless 2.4 GHz Band 2-way wireless



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Our hardware - iFSI 's

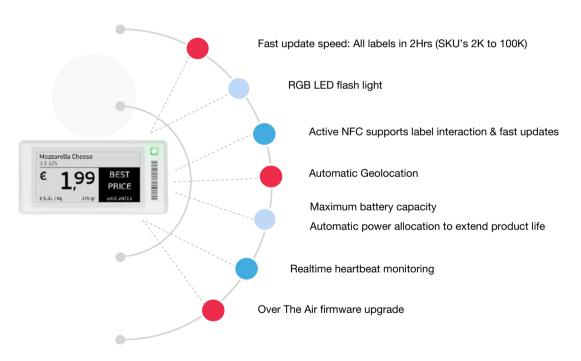
Flectronic Shelf Label Technical Data 1 Model ² Stellar-XXXXLN 10.2" Stellar-XXXXL3N 10.2" Stellar-XXXXL3YN 10.2" FERRERO COLLECTION FINE ASSORTED FERRERO COLLECTION Great Value Trail Mix 29 oz Dimensions (WxHxD) 215.5 x 174 x 12.6mm 215.5 x 174 x 12.6mm 215.5 x 174 x 12.6mm Display size 10.2" 10.2" 10.2" Weight 365a 365a 365a E-Ink, Bi-Stable, Graphic, Black, White. Led E-Ink, Bi-Stable, Graphic, Black, White, Red, E-Ink, Bi-Stable, Graphic, Black, White, Display type Flash, NFC Led Flash, NFC Yellow, Led Flash, NFC Orientation Landscape or Portrait Landscape or Portrait Landscape or Portrait Near 180° viewing angle Near 180° viewing angle Near 180° viewing angle Viewing angle Appearance Standard, white bezel front Standard, white bezel front Standard, white bezel front Unit identifier barcode Bottom front Bottom front Bottom front Operating temperature range 0°C to 30°C 0°C to 30°C 0°C to 30°C Update time Up to 18,000 labels per hour Up to 18,000 labels per hour Up to 18,000 labels per hour Battery life 3 5 years (4 updates per day) 5 years (4 updates per day) 5 years (4 updates per day) Replaceable batteries 6 x CR2450 (3,300 mAh) 6 x CR2450 (3,300 mAh) 6 x CR2450 (3,300 mAh) Accessories ESLs attach securely to our shelf-rails and ESLs attach securely to our shelf-rails and ESLs attach securely to our shelf-rails and accessories are also available for common accessories are also available for common accessories are also available for common fixtures and fittings. fixtures and fittings. fixtures and fittings. Communications 2.4 GHz Band 2-way wireless 2.4 GHz Band 2-way wireless 2.4 GHz Band 2-way wireless



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iESL Wireless Features & Functions Overview





iESL Wireless Features & Functions Overview

Auto-Geolocation

Fully automatic

Self developed protocol

IoT based

High precision: within 1m



- In-store navigation
- · In-store picking
- Shopping guide
- · Smart replenishment

Interaction

Device/ESL NFC interaction

Data transmission

ESL control

Work flow element



- · Page switch
- LED control
- Bind/Unbind
- Data update
- · Custom application
- Store operation

Quick Update

Cellular network

Auto hopping

Self net link

Broadcast: 100K/5min



- Update within 2hrs
- · Co-exist within 2.4GHz

Monitoring

Multiple stores

Software IHM

Interface

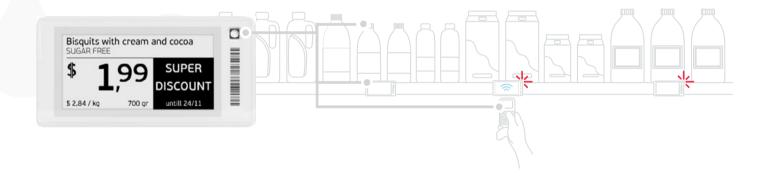
Cloud service



- · AP + iESL monitoring
- Periodic alert
- Dashboard



iESL LED flash lights



Promotion reminder

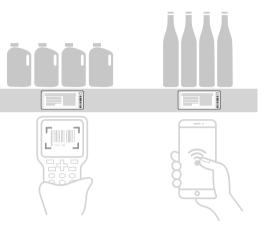
Member promotion

Operation reminder

Inventory reminder



iESL NFC interaction





NFC Data Sydnc

Sync the article data with NFC Note: up to 400 Bytes. In development stage, it will be deployed in POC.



Page Control

4 Pages switching control with NFC



LED Control

Full LED control with NFC including duration, color and on/off



Super Bind

Reversely pull fresh data

















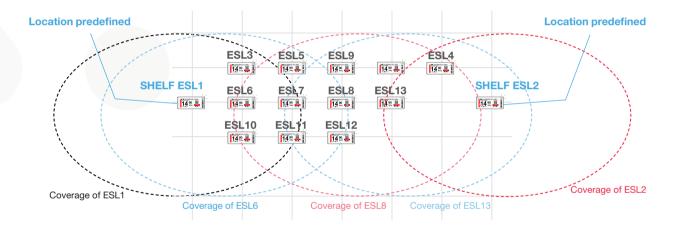




LED control



iESL Geolocation RF Based (accuracy 90% <1m)

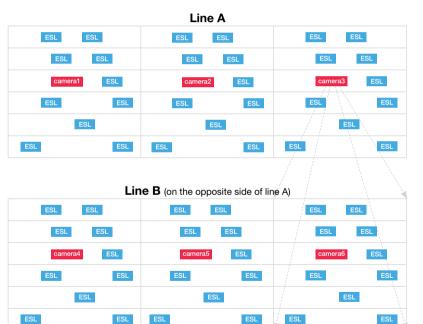


- The neighbour list of each ESL is built up of its coverage and gathered to the center server through APs.
- The connection relationship is generated from the neighbor list of all ESLs onsite and location is calculated from the predefined location of shelf ESLs and the connection relationship.



iESL Geolocation Wireless & Al Based

(accuracy 90% <20cm)





est normal ESL

Functionalities

- Acquire full or partial image of the opposite shelf
- Find the proximate location of iESLs via wireless signal
- Detect iESLs on the opposite shelf image
- Identify iESLs on the opposite shelf image
- Report iESL distribution changes
- Count the items on the opposite shelf image
- Report item vacancies



iESL Enhanced Security

- AES128 and above is the standard encryption algorithm for IoT products
- All iESL's are equipped with AES128 encryption chip for secure wireless communication
- HTTPS + TLS 2.0 protects the entire data stream transmission from the customer's network
- LDAP/SAML 2.0 integration is also supported for authorisation











Our hardware - access point

High Coverage Area

550m2 coverage with no line-of-sight required for transmission

Simple Infrastructure

Directly connect to the cloud

Realtime Status Report

Realtime heartbeat for monitoring

Automatic Frequency Hopping

Co-exist with other 2.4GHz devices (e.g. Wi-Fi, Bluetooth, Zigbee) with automatic frequency hopping mechanism

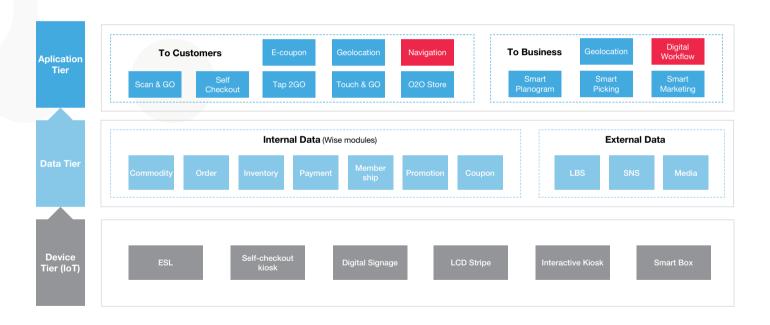
Cellular Network Supported

Automatically establish cellular network for maximum concurrent communications





IoT based platform for smarter retail





Multiple store management overview

- Multiple stores can be supported by minimal cloud server infrastructure
- Head Office can efficiently monitor and manage multiple stores
- · New stores can be easily added
- Multiple stores can be easily maintained













Smart store digital overview

Smart Marketing

- Display special offers and events
- · Tailored advertisements





Smart Picking

- · Order picking and packing
- · Order hand over or delivery

Smart Payment

- · Self-service checkout
- Anti-theft
- Face ID



- · Precision marketing





- Tap2go
- Geolocation
- Dynamic pricing





Planogram Management and Adjustment

- · Learn about product info and promotions
- · Scan to get e-coupons

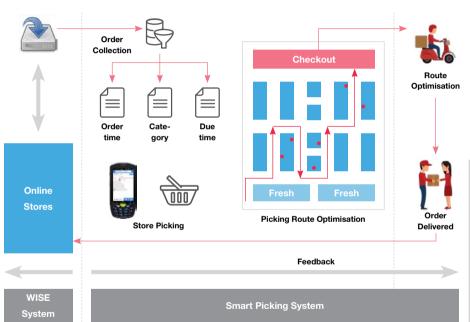


Smart Shopping

- · Self-service shopping
- · In-store navigation
- · Related items recommendation



Smart picking









Smart store digital marketing overview



· Promotion display

Related commodity information push Interactive marketing information

Shelf



push

Coupon push

Smart marketing

Multiple Device Displays



- Digital Signage
- Shelf Edge Digital Signage

Material Management



- Multiple zone layout design
- Fully integrated content creation
- Integrated planogram solution

Distribution Management





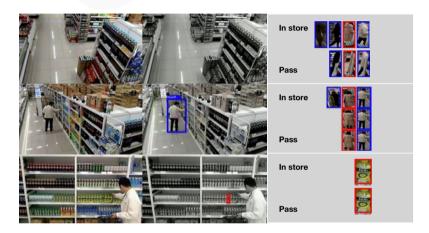




- Set operating hours
- · Remote task monitoring



Smart marketing



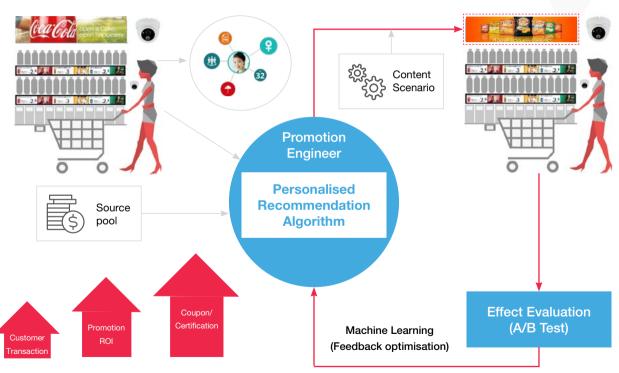
- Heat coverage: Space Utilisation Optimisation
- Customer flow: Traffic Flow Optimisation
- Area & time of stay: Store Layout Adjustment
- Evaluate effectiveness of planogram: Planogram Performance Optimisation
- Thorough analysis based on data collected: Raise Store Conversion Rate





Smart marketing

Combined with AI technology and smart devices, personalised ads can be displayed for customers.





New fashion tag

- 7 colour customised casings
- Ultra-Slim design
- Fashionable appearance
- Optional lens
- Low-power technology
- NFC supported













New ultra-thin iESL

- 7 colour customised casings
- Ultra-Slim design
- Fashionable appearance
- Optional lens
- Low-power technology
- NFC supported



1.03



New shelf edge signage





Features

- 23.1" / 24"wide FHD + TFT LCD Panel
- Micro-USB 2.0 x1 Input
- Micro-SD card x1 Input
- Wi-Fi 802.11 b/g/n
- Super Wide Viewing Angle

		I
Item	Specifications	Unit
LCD panel	Active Area	585.6 (H) x 48.19 (V) (23.1" wide diagonal)
Max Resolution	1920(H) x158(V)	-
Frame rate	60	Hz
Driver Element	a-si TFT Active Matrix	-
Pixel Number	1920 x R.G.B. x 158	pixel
Pixel Pitch	0.15245 (H) x 0.4494 (V)	mm
Pixel Arrangement	RGB Vertical Stripe	-
Transmissive Mode	Normally Black	-
Viewing Angle (H / V)	Typical 178 / 178	degree
Brightness	Typical 300	cd/m2
Contrast Ratio	Typical 5000	-
Response Time	9.5	msec
Performance	OSD Language	none
Input Connector	Micro-USB(2.0) x1, Micro-SD card x1, Wi-Fi 802.11b/g/n x1	-
Output Connector	none	-
User Control	none	-1
Tilt angle	Upward / Downward	15
Physical	Dimension, weight	902.1x513.8x64.5 / 6.8 902.1x571.5x200 / 6.9



New digital signage





- Ideal for advertising promotions, commercial displays, and event information in supermarkets, malls, hotels, reception areas, etc.
- Displays maintain high brightness in extreme conditions
- Simple content sharing and management

Excellent image quality
Wide viewing angle

Multiple sizes

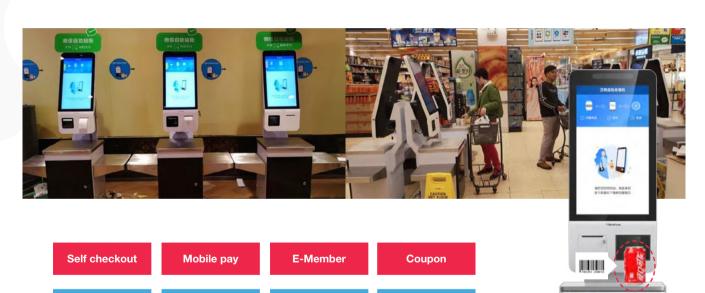
Flexible

installation

Simplified content management



New smart payment kiosk



Anti-theft

Recommendation

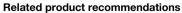
Face ID

Re-purchase



New smart trolley







Developing access point wi-fi integration



Low installation fee



Low maintenance fee



High data capacity



High integration level

Low cost & High reliability

Integration with Cisco



- In development stage
- Demo during May 2019
- POC during June 2019

Integration with Extreme Networks



- In requirement and planning stage
- Planning demo and POC during 2019 (depending on requirements)







Developing out of shelf detection



Al Module







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