

## Digital Solutions Catalogue

2024/2025

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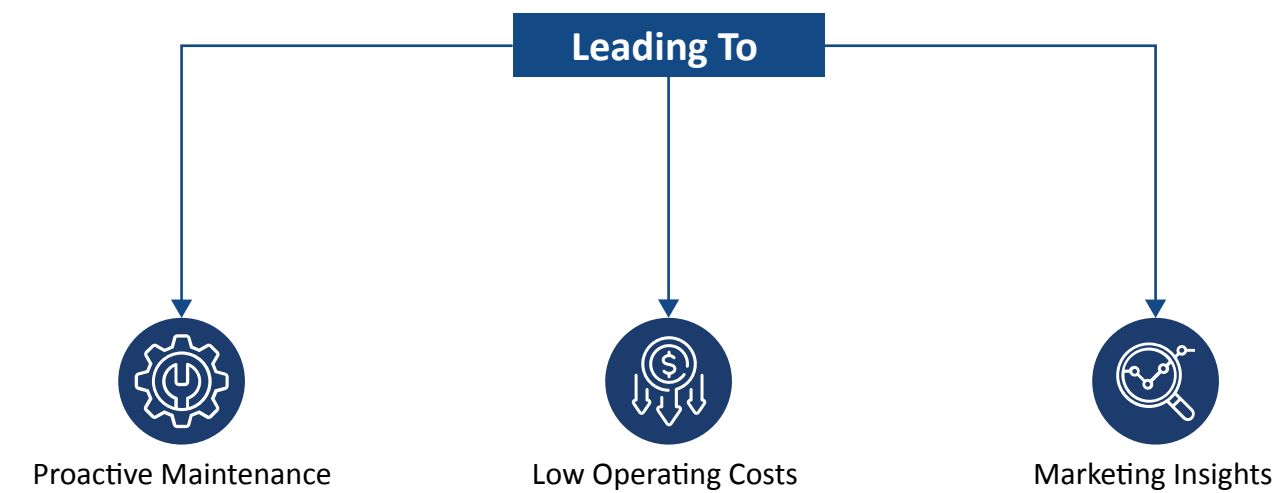
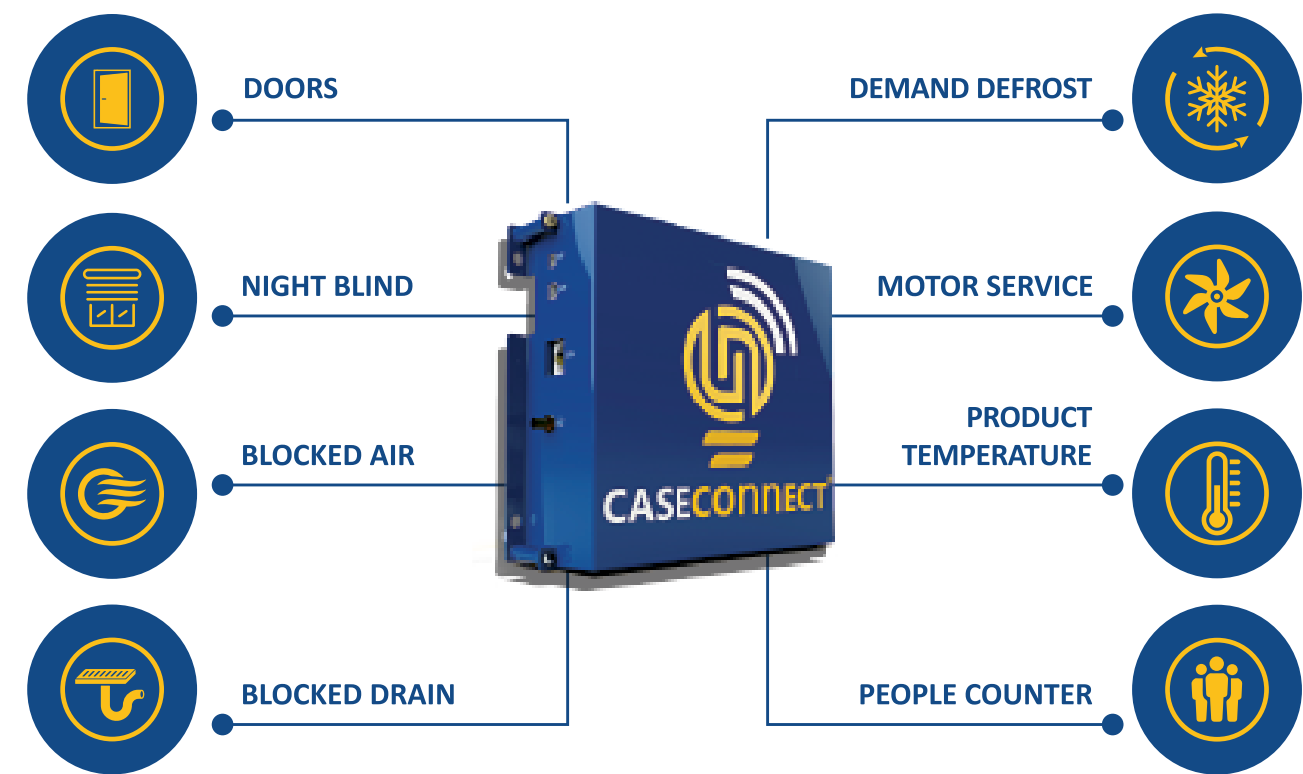
# CaseConnect® Platform & Overview

CaseConnect® is a future proof, plug & play technology that integrates IoT sensors with advanced cloud technology into our refrigerated cases, integrating asset management and retail customer engagement.

CaseConnect® provides immediate returns by enabling proactive response for service companies and synchronised approach to retail marketing teams based on real-time data.



# CaseConnect® Important Opportunities



# Better Data = Smarter Solutions



**Save More**  
CaseConnect® comes fitted as an additional option on selected cabinets or can be retrofitted in certain cabinets to convert them into a smart self-monitoring and self-diagnosis equipment which can notify staff instantly of issues.

- Enables transition from preventative to proactive maintenance contracts
- Proactively measures self diagnosis and reports on critical equipment and incidences
- Integrates with existing equipment controller and alarm systems to optimise case operation



**Waste Less**  
CaseConnect® ensures the optimum level of refrigeration performance and food quality while reducing excessive energy and operational costs.

- Move from conservative preset defrosting to demand based defrosting
- Blinds, fans and lights integration to deliver energy savings
- Self monitoring programs to optimise refrigeration performance including blocked air returns



**Sell More**  
CaseConnect® technology detects customer traffic and provides meaningful insights to know more about your consumers preferences. Live market detail enabling you to make more profitable decisions when it comes to product placement, stock and marketing.

- Real time insights into consumer traffic
- Planogram efficiency
- Real time sales and marketing data for increased sales
- Electronic shelf labels and video output marketing

## First 8 Initial IoT Sensors



**1. Doors IoT**  
**Saving Your Energy & Costs**

- Door Open Alarm
- Planogram Success Measure



**2. Night Blind IoT**  
**Saving 14% Of Your Energy Costs**

- NB Open Alarm
- Fan Motor Energy Reductions



**3. Blocked Air IoT**  
**Increases Case Efficiency**

- Return Air Block Alarm
- Optimize Performance



**4. Blocked Drain IoT**  
**Avoids Asset Downtime**

- Automatic Drain Blockage Detection
- Avoids poor Hygiene & Customer Impact



**5. Demand Defrost IoT**  
**Energy Savings And No Adjustments For Seasonality/Demand**

- Maximise Equipment Uptime
- Avoid Unsafe Product Temp



**6. Motor Service IoT**  
**Focused Maintenance & Running**

- Avoids unnecessary defrosts
- Automatic Ice Detection



**7. Product Temperature IoT**  
**Saving Your Energy & Costs**

- Monitor Case Temp in Real Time
- Prevent Product Wastage



**8. People Counter IoT**  
**Customer Metrics**

- Insights of High Flow Areas
- Planogram Success Measure

# IoT Sensors - How It All Works

CaseConnect®'s  
**FIRST 8 IoT TECHNOLOGIES**  
Connected to our CaseConnect® Controller

IoT Sensors	Proactive Maintenance	Energy Savings	Sustainability	Sales & Marketing
Doors	✓			✓
Night Blind		✓	✓	
Blocked Air	✓			
Blocked Drain	✓			✓
Motor Service	✓	✓	✓	
Demand Defrost	✓	✓	✓	
Product Temp	✓		✓	
People Counter				✓

## Installation & Maintenance



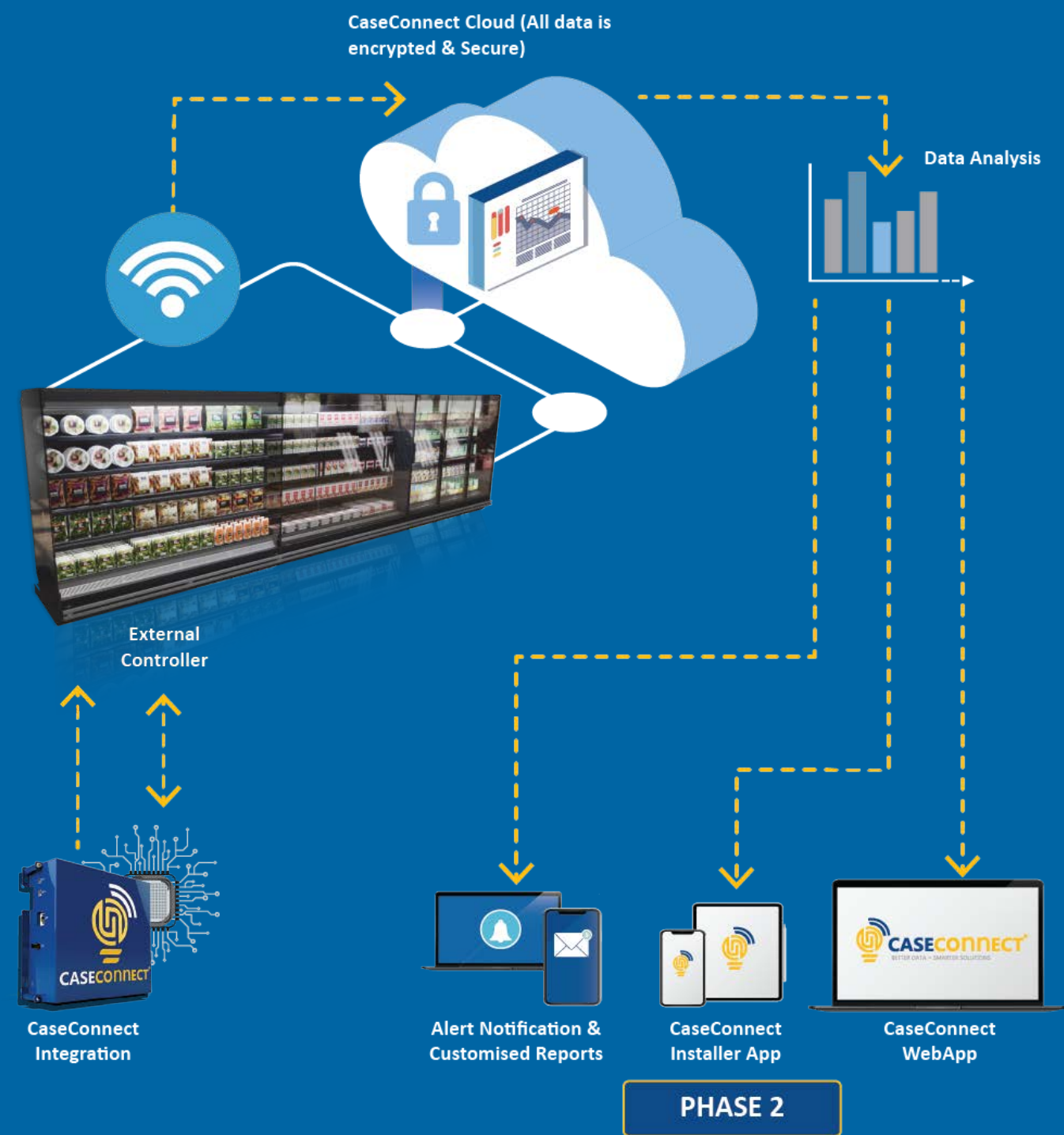
**Color Coded Probes**  
All wires are labelled with color-coordinated, water proof probe connection points. This increases efficiency and ease for installation and servicing.



**Serviceability & Maintenance**

- Easy access via electric box
- Labelled connection points for quick identification
- Wi-Fi connectivity

# Information System Architecture - How It All Works



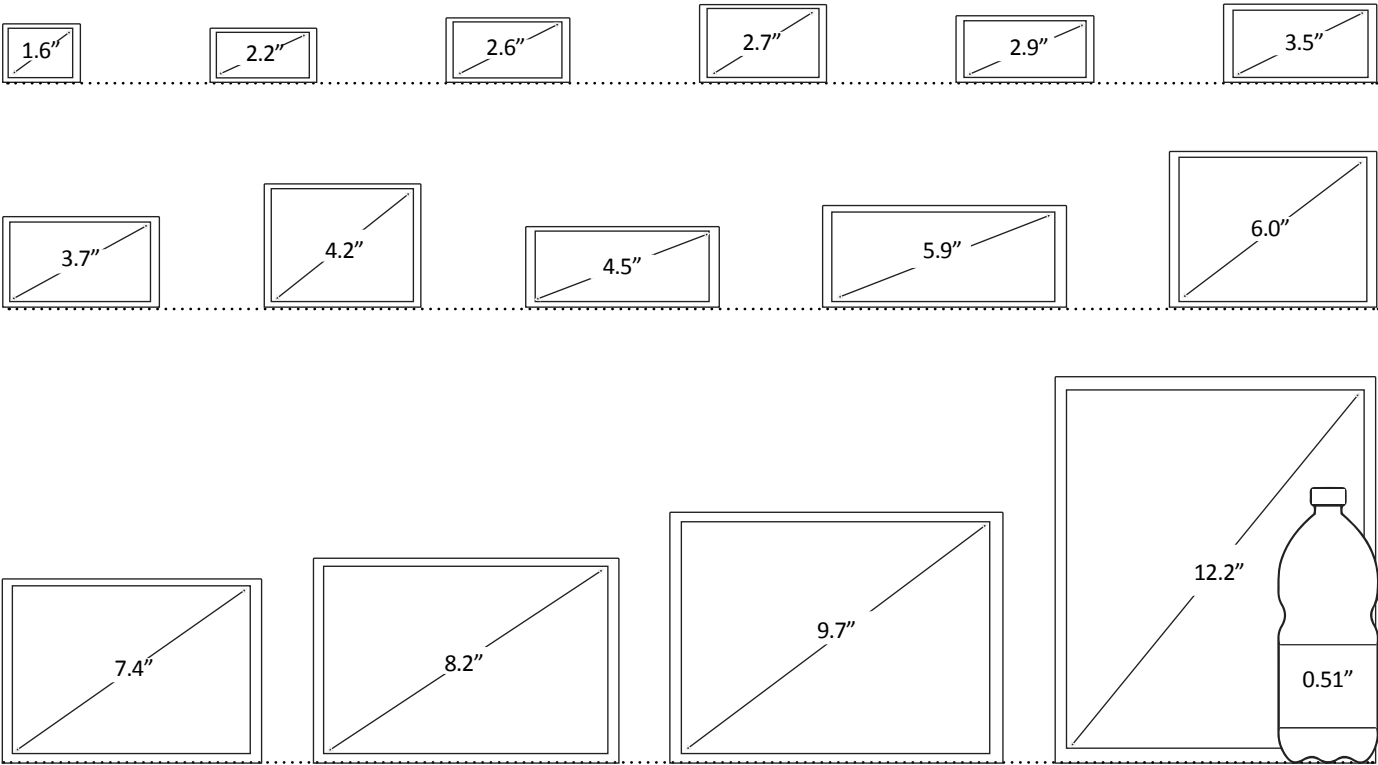
# Website & Dashboard - Access Anywhere Via Web

Customers can set-up and customise their reports





Largest Range of Electronic Shelf Labels



Simplify and Automate In-store Operations

Electronics shelf levels enhance in store efficiency and reduce labour cost generated by the daily implementation of the pricing policies. Staff can then focus on higher-value-added task search as consult availability replenishment and customer services. Digital tags can also reduce wastage through dynamic management of products (stock level alerts, shelf capacity, real-time promotions and coupons...)

→ Pricing Automation / Intelligence

→ Picking and replenishment optimisation

→ Automated shelf monitoring and stock-out detection

→ Shopper connectivity and instance digital service

→ Digital advertising and promotion

Model	Size (mm) without LED and EasyStock	Resolution	Display Colour				Freezers	Pixel Density (DPI)	Flash
1.6"	48 x 36.6 x 11.4	152 x 152	●	○	●	●		140	7 Color LED
2.2"	67.9 x 34 x 11.4	212 x 104	●	○	●	●	●	111	7 Color LED
2.6"	80 x 41.1 x 11.4	296 x 152	●	○	●	●	●	125	7 Color LED
2.7"	81.9 x 50.5 x 12.2	264 x 176	●	○	●			170	7 Color LED
2.9"	90 x 41.5 x 11.4	384 x 168	●	○	●	●	●	144	7 Color LED
3.5"	99.05 x 48.93 x 10.6	480 x 232	●	○	●	●	●	155	7 Color LED
3.7"	103.8 x 58.6 x 12.1	416 x 240	●	○	●			130	7 Color LED
4.2"	104.5 x 82.5 x 12.2	400 x 300	●	○	●	●		120	7 Color LED
4.5"	128.5 x 51.8 x 12.6	480 x 176	●	○	●			117	7 Color LED
5.9"	164 x 66.2 x 12.5	720 x 256	●	○	●		●	134	7 Color LED
6.0"	138.1 x 104.7 x 12.4	600 x 448	●	○	●			128	7 Color LED
7.4"	175.3 x 123.4 x 13.2	480 x 800	●	○	●	●		126	7 Color LED
9.7"	227.6 x 169.5 x 13.5	672 x 960	●	○	●			121	No LED
8.2"	208 x 137.5 x 14.8	1024 x 576	●	○	●	●	●	144	7 Color LED
12.2"	218.3 x 265 x 14.7 (with battery door)	769 x 960	●	○	●			103	No LED

# Different casing options to fit your store design

SES-image tag Electronic Shelf Labels offer a wide range of casing options to fit your needs and store design. When ordering the ESLs you want, you can mix and match the options available to for your exact needs.

EASYLOCK		LENS & INLAY		LED		NFC		CASING	
L	Easy Lock	1	No Inlay / No Lens	1	No LED	1	With NFC	1	Signal White
U	No-Easy Lock	2	Inlay / No Lens	2	White LED	2	Without NFC	2	Anthracite
		3	Inlay / Lens	3	Red LED only				
		4	Customised	4	7 Colours				
			No Inlay / No Lens engaged	5	Red LED only				
				6	Red+Bright Green				



# Features







The current line-up goes from 1.6 to 12.2 inches, with displays in black, white, red or black, white, yellow. Proven sales booster and essential part of the efficient and connected store, VUSION Labels have unique and key features to digitalise physical retail:



- High resolution color e-Paper displays
- Easylock Anti-theft Protection System
- Active NFC
- Instant LED Flashing (7 colors)
- IoT ultra-low-power communications infrastructure (7+ year battery lifetime)
- Instant data transfer
- Super-wide viewing angle (near 180°)
- VUSION Labels’ components come from highly reliable and market-leading vendors, ensuring the highest ESL quality in the industry (100% inline test success).

## N.1 – GLOBAL

Smart Labels are now becoming the portal to an ever-increasing portfolio of cloud-based applications focused on store automation, shopper engagement and data analytics:

-  **Video Automation** - Shelf monitoring & Stock-out detection
-  **Product Geolocation** - Real time planogram & management
-  **Picking & Replenishment Optimisation**
-  **Price Automation & Analytics Intelligence**
-  **Shopper Connectivity**
-  **Digital Advertising** - Display promotions & discounts

**Instant LED Flashing:** Ultra-large viewing angle, 7 colors. Setting new standards in Electronic Shelf Label solutions.

**IoT Protocol:** VUSION Tags are connected to the VUSION IoT Protocol ensuring perfect connectivity in-store between the retailer, the brands and the shoppers.

**Dual Frequency:** Choose the frequency that best fits your needs. Two different radio frequencies, 2.4 GHz and SubONE, which offer different functionalities for the VUSION ESLs.

**VUSION design:** Thinner than any tag before, it adds a modern touch to every retailer’s store. Plus, adapt the templates to the stores guidelines as much as needed.

**NFC/QR:** All our ESL tags are equipped with our Patented NFC Technology as well as the ability to display working QR codes to bring your website into your store.

**All terrain labels:** Waterproof and dustproof, our electronic price tags are reliable in every situation. Even in temperatures dropping to -25°C with special freezer labels.

**Easylock:** Anti-Theft and Anti-Fall system to guarantee all electronic price labels positioning in-store and merchandising compliance No mechanical stress on digital price tags and fits with all the previous fixings.

**Display:** The best ESL displays on the market thanks to 10 years e-Paper experience with the integration of Pervasive Displays.

# Automated Shelf Monitoring



## Helping retailers improve their core business with Computer Vision & AI



### Capture Images

Camera & Mobile devices  
Best in Class image capture, recognition and treatment



### Generate Data

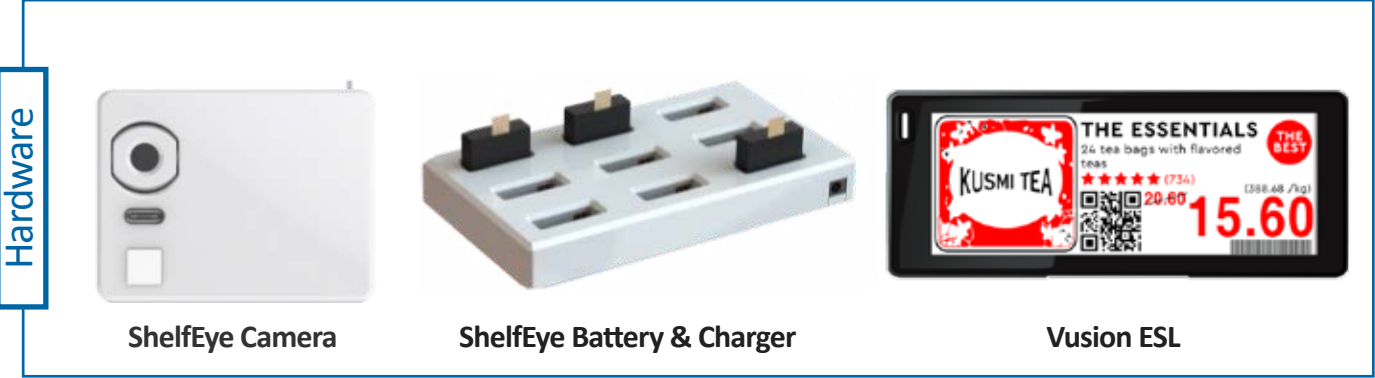
Analyse the images with CV and AI  
Create data for reporting and actions



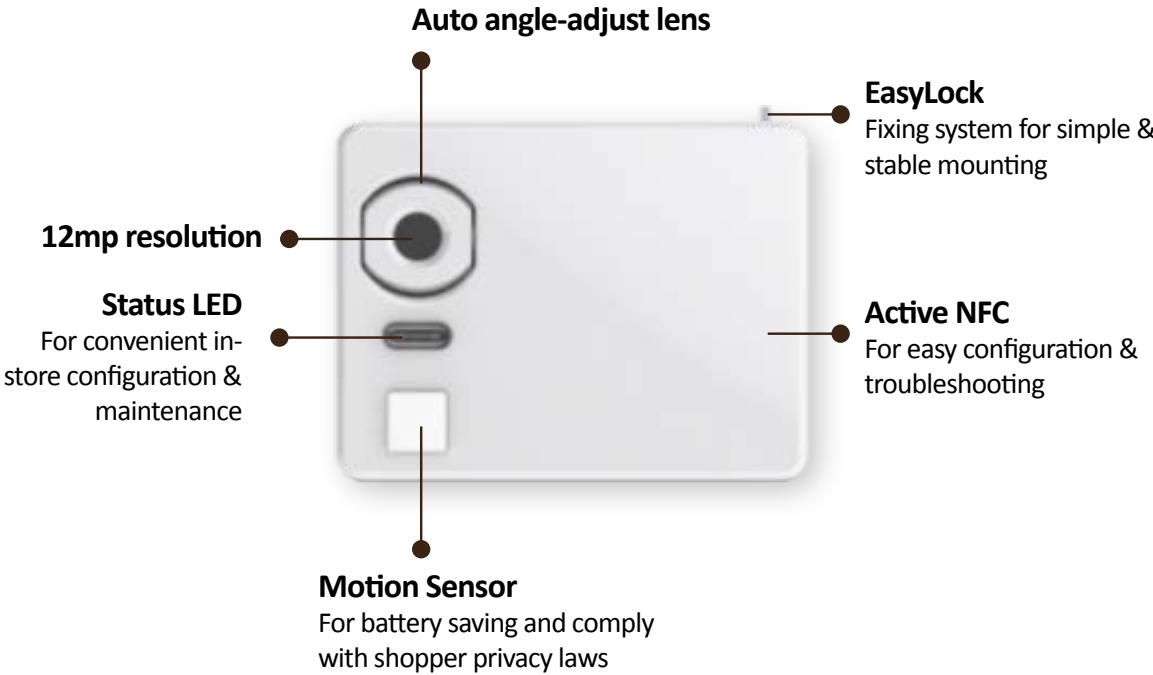
### Report for Actions

Empower the store associates to create value in real-time  
Provides quality data improving the total value-chain

# Captana System



## ShelfEye Camera



### Powered by Rechargeable battery or power cable

**Benefits:**  
Flexibility to fit most store areas  
Ease of installation  
Infrastructure cost efficiency

**Battery Life before recharge\* (average):**  
1 image per day -> every 14 months  
12 images per day -> every 6 months  
\* under best conditions, battery may be impacted by Wi-Fi signal strength

## ShelfEye Camera Fixing



Vusion ESL rail with EasyLock



Fixed wall clip



Adjustable wall clip



Track light adapter + wired charging \*

\* Depending on track light model

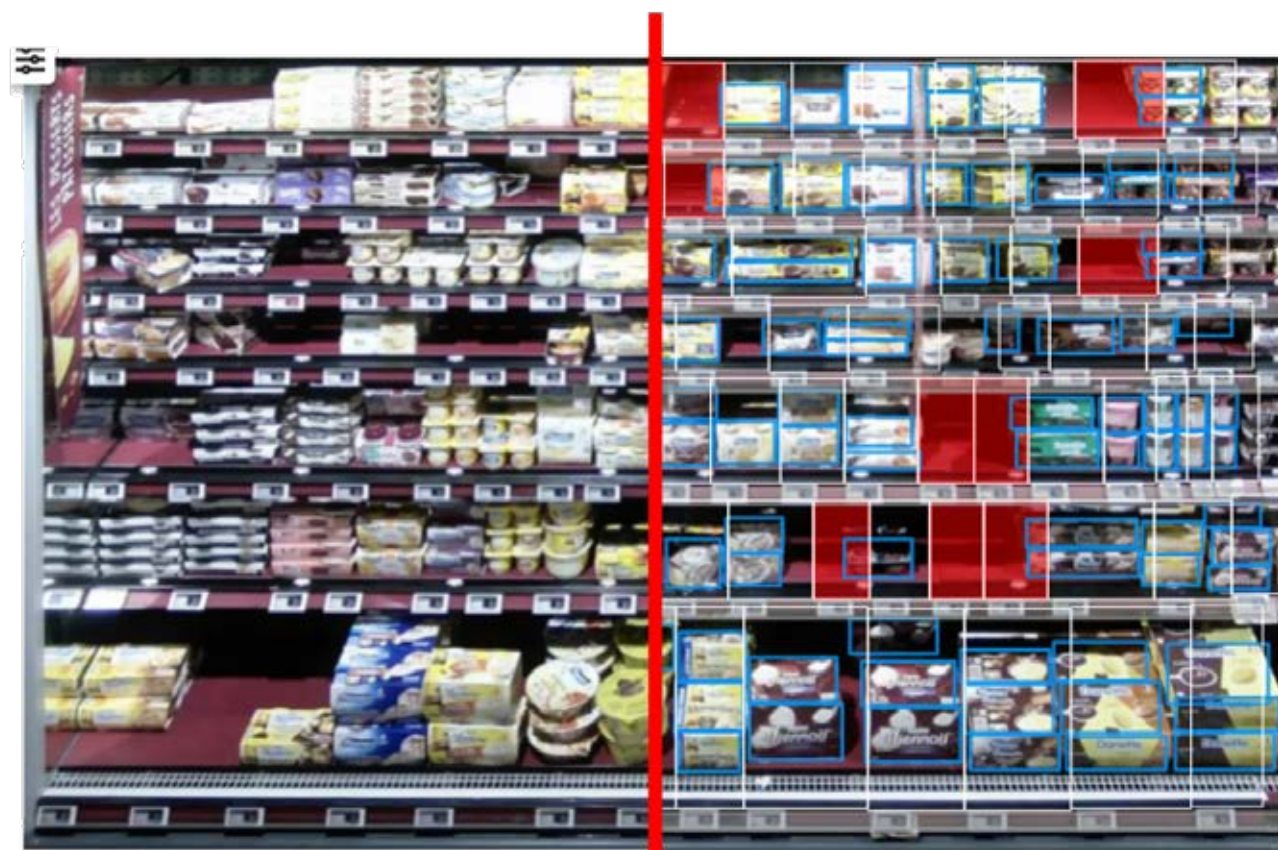


## Your Digital Self-monitoring Assistant



Tiny shelf camera located at eye level monitoring the opposite shelves

## Retail Use Cases: Auto-gap Scan & OOS Monitoring



### Without Captana

- Manual gap scan by store staff
- Errors due to manual data collection
- Only 1 gap status update per day
- Paper based stock check & replenishment

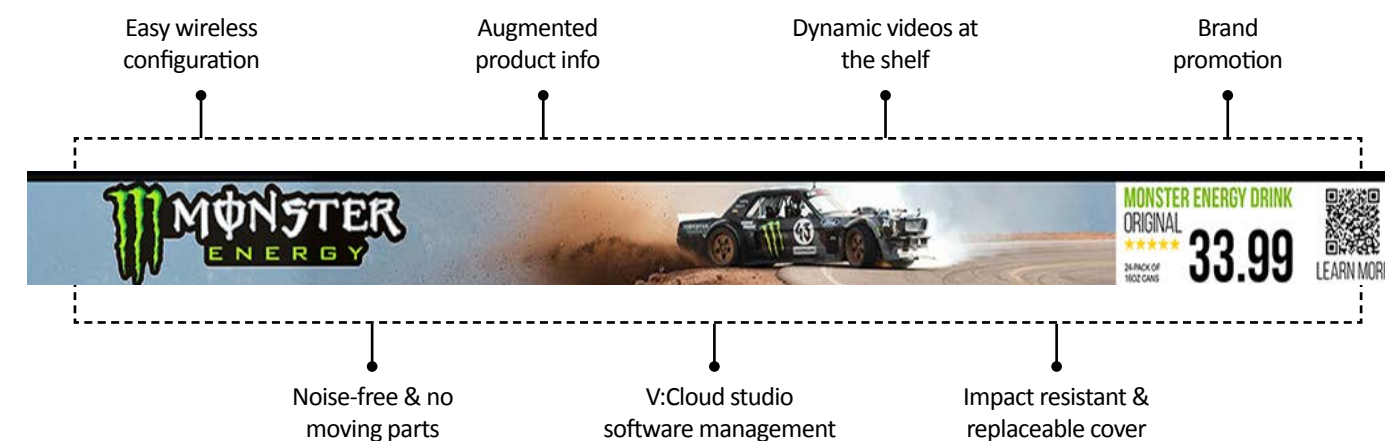
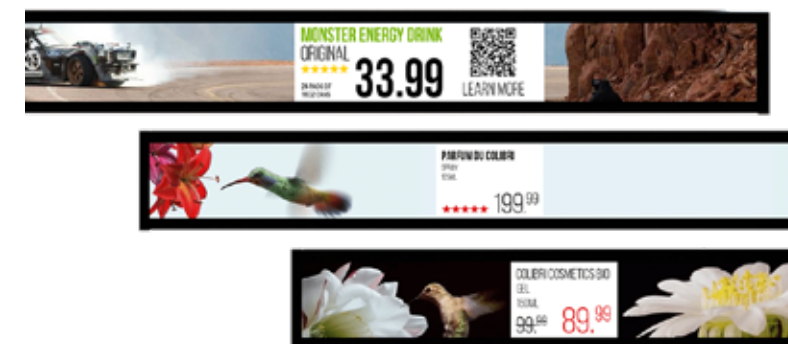


### With Captana

- Automatic gap scan by shelf cameras
- Highly reliable data by computer vision
- Auto gaps check every hour
- Mobile App based guided stock check & replenishment

## Vusion Rails

V:Rail is SES-imagotag's new shelf edge interactive display that keeps stores the ability to leverage full High Definition screens to enhance in-store shopper marketing experience and optimise store operations. It lets store staff adjust prices and merchandising in-store with a touch interface located at the bottom of each V:Rail display. Staff can also adjust brightness with a single touch, on all shelves.



Connected



Secured



Platform



Easy to use



Robust



Attractive





# Edge Used Cases



## New in-store advertisement media

- Ease of campaign management
- Advertisement costs savings
- Contents monitoring & Proof-of-Play
- Communication @ the “First moment of truth”
- Attractive & innovative ads capabilities



## Enhanced in-store shopping experience

- Dynamic & Digital stores design
- Offline – Online synchronization
- Rich products information
- Connectivity enablement
- Customized offers



## Win-Win collaboration with your brands

- New advertisement revenue stream
- Increased shopper engagement
- Increased store traffic
- In-store sales uplift






# Used Cases

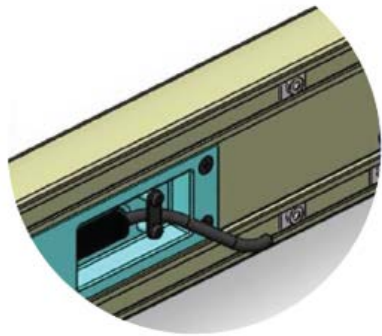
- Increase Store Traffic
- Promotions Booster
- New Product Introduction
- Brand Sponsored Campaigns
- Loyalty Program Communications
- In-store services communication
- Seasonal Activities (eg. Halloween, Christmas)
- Digital Coupon (Via QR Codes)
- Food Traceability
- Food Recipes + QR Code
- Markdown for Waste Reception
- Gamification

# Technical Specifications

## VRAIL Sizing Guide

VR06001			
			
Dimensions (mm)	Active Display Area (mm)	Resolution (px)	Weight (kg)
605.2 x 67.53 x 24.07	585.6 x 48.19	1920 x 158	1.038
VR09001			
			
Dimensions (mm)	Active Display Area (mm)	Resolution (px)	Weight (kg)
898.2 x 67.53 x 24.07	878.4 x 48.19	2880 x 158	1.46
VR012001			
			
Dimensions (mm)	Active Display Area (mm)	Resolution (px)	Weight (kg)
1215.4 x 72 x 30.88	196.16 x 49.84	3840 x 158	2.78

Due to the energy consumption of the Engaged Rails we currently offer power supplies with two different voltages that each have multiple configurations to suit power requirements of each region. Please note that the power supply should not run above 70% of max power in a 24/7 operation (Sum of max power per engage rail x 13).




Model	Power Consumption (DC measured)	Power Consumption (incl. PS ,average)	Power Plug	Power Supply
Engage Rail 12001	15.84 Watt / Hour	- 24 Watt / Hour	male barrel jack (2.1mm ID, 5.5mm OD)	12 Volt / 3 Amp = 36 Watt
Engage Rail 09001	11.4 Watt / Hour	- 15 Watt / Hour	male barrel jack (2.1mm ID, 5.5mm OD)	12 Volt / 2 Amp = 24 Watt
Engage Rail 06001	8.4 Watt / Hour	- 12 Watt / Hour	male barrel jack (2.1mm ID, 5.5mm OD)	12 Volt / 2 Amp = 24 Watt


Engage Rail and player allow scheduled Power Save Mode and Dimming option. Power Safe Mode can be configured on Store level and additionally per Device level (e.g. during closed hours specific storefront Rails remain active while in store Rails are in powersave). Engage Rails in Power Save will power off the backlight from the display, the device will remain fully connected to IoT hub. Using Vusion Rail Connect app allows to temporary wake up the device (3 minutes) for Rail store operations.

# Refrigerated Lockers


## Key Features




**Reliable**  
Watchdog and Self diagnostic  
Load balancing and redundancy  
Resistance to burst connects




**Flexible**  
SW Options for applications  
modularised SW architecture  
Customization per request  
API profession for integration




**Scalable**  
Design for mass deployment  
Expandable cloud servers  
Centralised monitor and control  
Proven records into Telco/MSO



**Secure**  
In house security protocols  
One button rollback



**Manageable**  
Web base management system  
Classified management groups  
Dashboard and analytic report  
Auto alarm (push to admin)



**User-friendly**  
Seamless integration w/App  
Intuitive UX design  
Customizable UI

## Value-added Benefits

**One Stop Solution**  
Supply, installation, service and maintenance of lockers managed through Panasonic partners throughout the product life


**Software solution**  
Flexible fee structure options for one time payment or ongoing monthly fees  
Software can be integrated into existing hardware platforms to enable uniform software across the fleet

**Hardware solution**  
Customizable hardware solution to suit various customers configuration recruitments (chilled, frozen and ambient solutions)

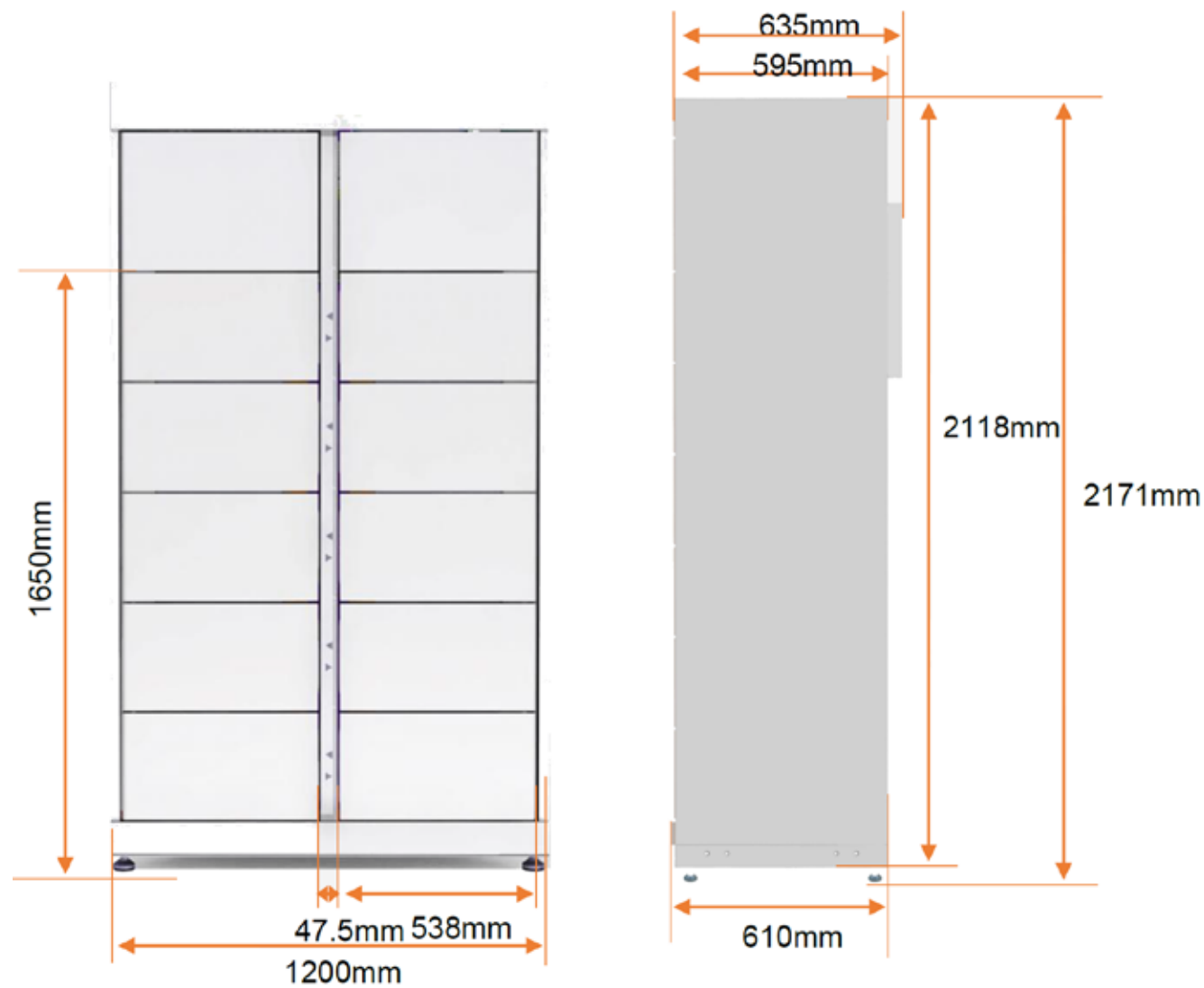
**Aftermarket support**  
Trained technical service staff and help desk technical engineering support for fault resolution and repair

**Socially responsibility**  
The locker is designed to be intuitive with accessibility features to cater for persons with special needs by optimizing local selection and open/close functions for easy access

**Sustainable solution**  
local hardware software is designed to be future proof to add additional value-added features such as linkray technology or expand for capabilities such as data analytics



## Locker Configuration



## Basic Specification

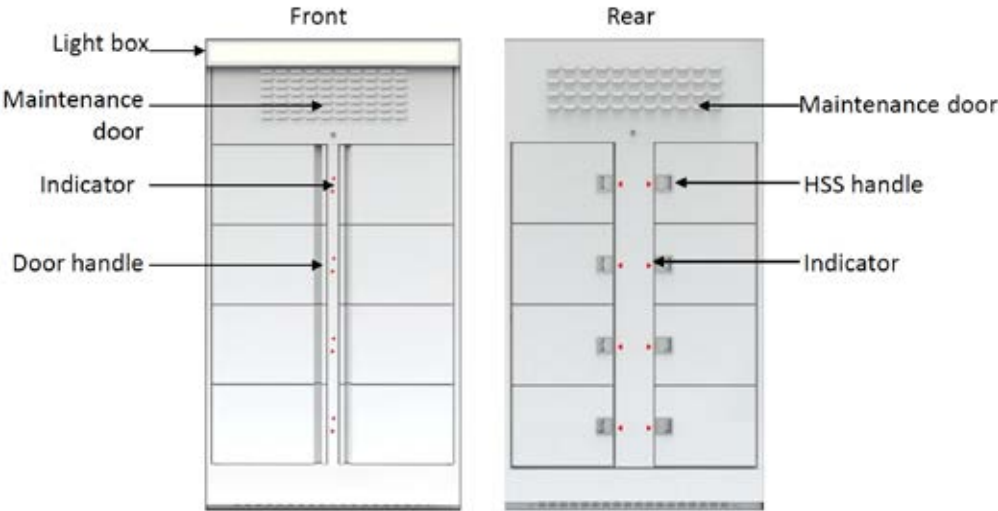




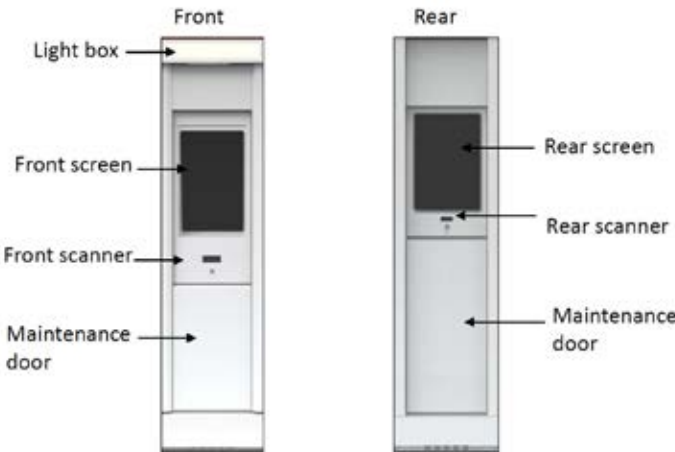
# Rear Feed Lockers



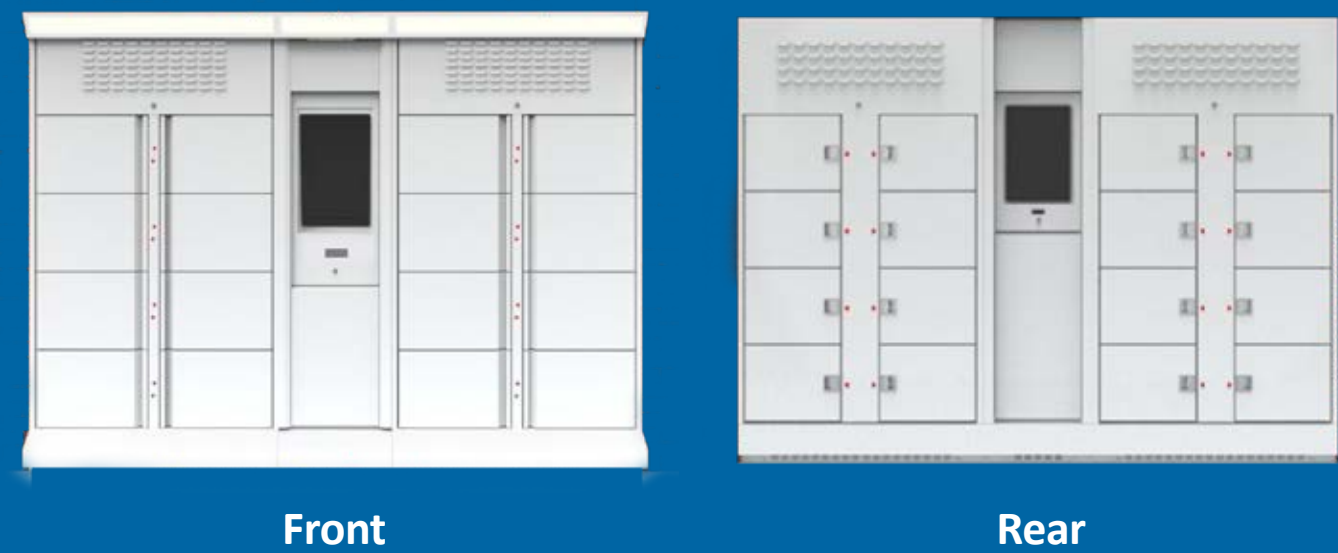
## Module



## Main Controller



# Combination Diagram



Compartment	6 doors and 8 doors
Type	Rear loading, floor-standing
Ambient Temperature	10~45℃
Refrigeration Temp	1~4℃
Application	Beverage
Dimension (mm)	1200 x 707 x 2185 (Light box included)
Operating Environment	Semi-outdoor (Built-in)
Refrigeration Mode	Air cooling
Drainage Mode	Direct discharge
Compartment Size (W*D*H) mm	6 doors: 337 x 465 x 436   8 doors: 337 x 465 x 314
Remarks	The equipment shall not be exposed to direct sunlight or rain

Item	Main Coltroller
Type	Rear loading, floor-standing
Dimension (mm)	550 x 707 x 2185 (Light box included)
Remarks	The equipment shall not be exposed to direct sunlight or rain

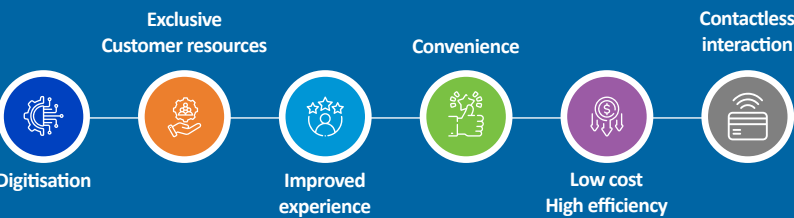


# Hot Locker

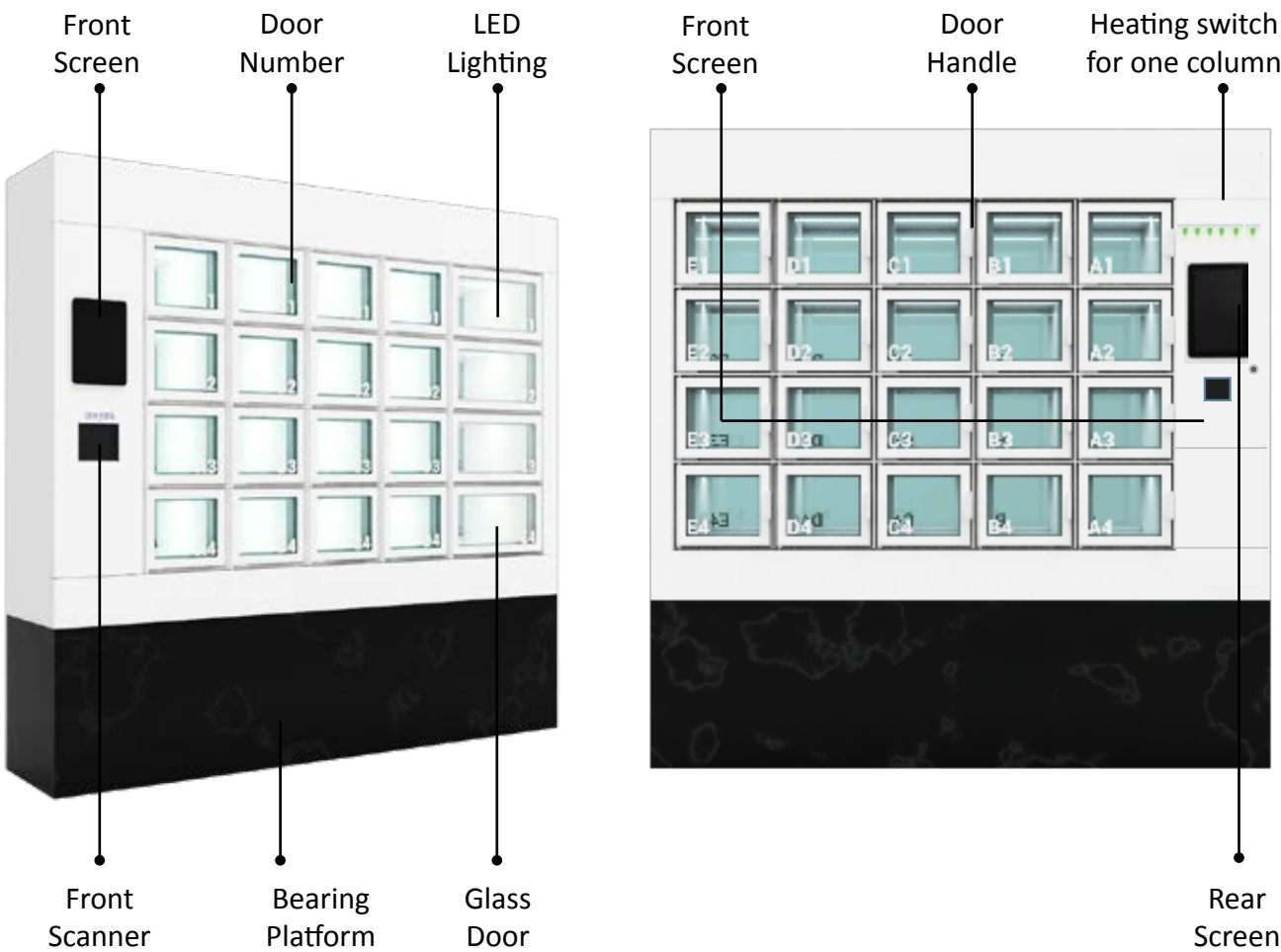
## Panasonic Smart Food Locker

Smart Food Locker can be applied in restaurants, convenience stores and supermarkets. As an interactive equipment for “Click & Collect” solution, it helps to achieve digital upgrade, maintain exclusive customer resources and attract customers by all channels.

It has three modes: Heat, warm and ambient. Smart food locker will keep food warm and reduce the time of collecting food orders, which will also improve customer’s experience and reduce operation cost and wrong delivery.



# Standard Product Diagram



# Fresh food“Click & Collect”Customer Insight



**Target1: Providing warm meals**  
Chinese people prefer freshly-made food



**Target2: Order in advance, no need to queue up**  
Worry about being late, queuing takes just too much time.



**Target3: No more wrong deliveries**  
Wrong delivery - Always happen in peak times



**Target4: A much safer way to collect your order**  
Contactless - In the post epidemic era, keeping people at a distance will become a normalized situation



**Target5 : Fresh food click & collect Solution**  
F&B and retailers are eager to develop their own small program for takeout business  
High commission for third-party platform, resulting in low profit.  
Providing customers with convenient services and interactive experience.

# Customisable Color

Standard color:



Panasonic white  
SN-07 Indoor  
SN-07-NH(Semi-outdoor)

Special color:



Green Pantone  
7466C



Blue Pantone  
2995C

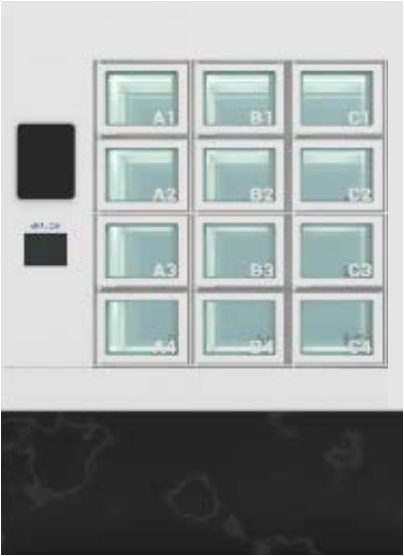


Red  
SR-44 (Indoor)  
AR-45 (Semi-outdoor)



Black  
NW-03

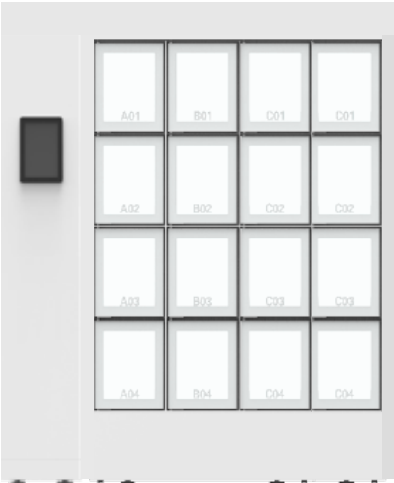
Standard Product [With Platform]



12 Components  
12 (small) Compartments  
0.53m² Area

Items	Specifications
Model number	VBM-4322UDTCS
External dimension	W1250xD438xH1405(1905mm, including platform)
Compartment size	Small W200 x D350 x H200mm
Internal temp	60°C (for one column)
Rated power	344W
Eclectic system	AC 220V, 50Hz
Platform height	≤ 500mm
Type	Indoor
Net weight	180Kg
Optional	Colour, Sterilization module

Standard Product [Heat Locker]



12 Components  
12 (small) Compartments  
0.53m² Area

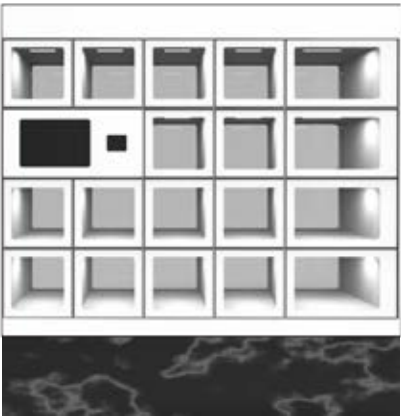
Items	Specifications
Model number	VBM-4423UFTCS
External dimension	W1717xD338xH1820
Compartment size	Small W244 x D268 x H309mm
Internal temp	60°C (for one column)
Rated power	320W
Eclectic system	AC 220V, 50Hz
Type	Indoor
Net weight	200Kg
Optional	Colour, Sterilization module

Standard Product - Ambient [With Platform]



12 Components  
8(Small)+4(Big)  
Compartments  
0.61m² Area

Items	Specifications
Model number	VBM-4322UDTCS-B1
External dimension	W1400*D438*H1405(1905mm if platform included)
Compartment size	Big W350 x D350 x H200mm
	Small W200 x D350 x H200mm
Internal temp	60°C (for one column)
Rated power	364W
Eclectic system	AC 220V, 50Hz
Platform height	≤ 500mm
Type	Indoor
Net weight	195Kg
Optional	Colour, Sterilization module



12 Components  
8(Small)+4(Big)  
Compartments  
0.61m² Area

Items	Specifications
Model number	VBM-4522UDTCS-B1
External dimension	W2000*D438*H1405(1905mm if platform included)
Compartment size	Big W350 x D350 x H200mm
	Small W200 x D350 x H200mm
Internal temp	60°C (for one column)
Rated power	632W
Eclectic system	AC 220V, 50Hz
Platform height	≤ 500mm
Type	Indoor
Net weight	300Kg
Optional	Colour, Sterilization module

# HUSSmann®

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