

SOLUM CAMERA SOLUTION

ESL+CAMERA SOLUTION INTEGRATION

SOLUM
Solution provider.

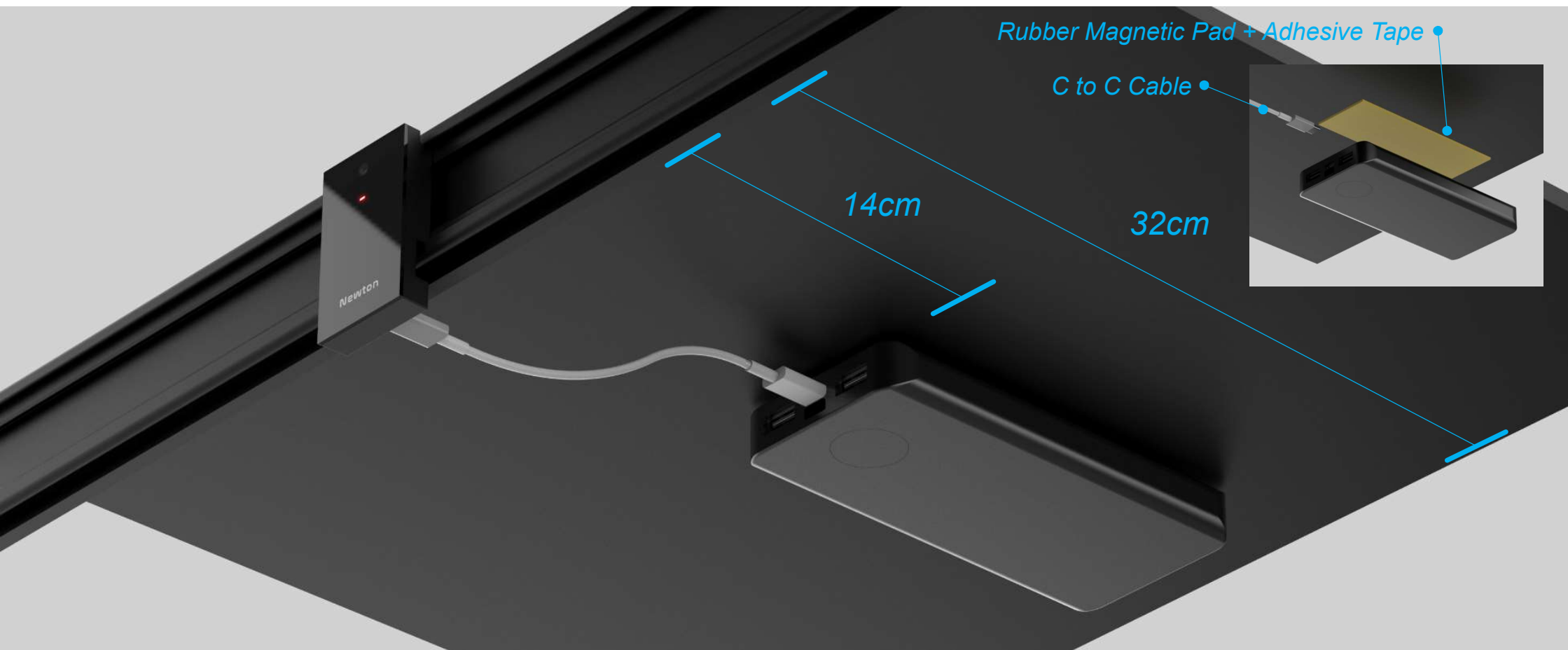
NEWTON EYE

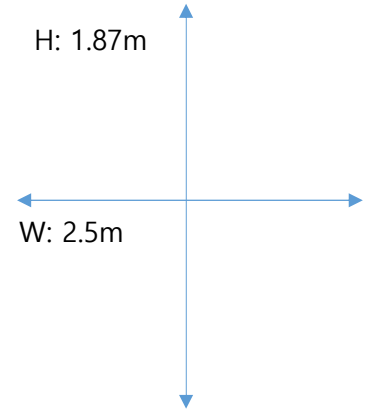


MODEL	EC120THWXC/WWW
FLASH MEMORY	(External) 128Mbit
RAM / ROM	512KB / 768kB
Wireless communications	IEEE 802.11 a/b/g/n compatible + 2.4 / 5GHz GHz SOLUM Proprietary Protocol on BLE
CHANNELS	SRD 2.4GHz 1Mbps : 80CH WiFi: 14CH + 24CH
TRANSMIT FREQUENCY	2.4 / 5 GHz
RECEIVE FREQUENCY	2.4 / 5 GHz
RESOLUTION	FF 5M Pixel(2592*1944) resolution for JPEG encoding
ANGLE OF VIEW	Max 120°
FOCAL LENGTH	Min 80cm
Preferred Focal Length	0.8M ~ 3M
Coverage(Range)	2.5M / 1.87M (W / H)
NFC	FeliCa NFC Forum Type 3
DIMENSION	35.16 mm * 55.16 mm * 10.45 mm
POWER SOURCE	External 5V from USB C-Connector
COVERAGE (INDOOR IN RADIUS)	UP to 25m
INTERFACE	USB type C
OPERATING TEMPERATURE	0°C to +40°C
WEIGHT	15.8g
ENCLOSURES	Plastic (PC)
ETC	Built-in face masking with AI engine

※ This specification May varies depending on the installation environment and user scenario.

Power Bank / C to C cable





Distance
1.2m~2.0m

Angle
64.3°C ~ 80°C





Soum

Managem
nt

staff

Community

Report

Setting

Dashboard

POG

OOS

13

Misplacement

3

Report / monthly

Report / weekly

Section

Camera solution

Mapping error

2

Detecting error

0

Camera solution

Section	Error	Result	Time
A	OOS	Completed	Error : 2022-08-18, 13:23:33 Completed : 2022-08-18, 13:35:58
B	MP	On going	Error : 2022-08-18, 13:23:33 Completed : 2022-08-18, 13:35:58
C	Error	Completed	Error : 2022-08-18, 13:23:33 Completed : 2022-08-18, 13:35:58

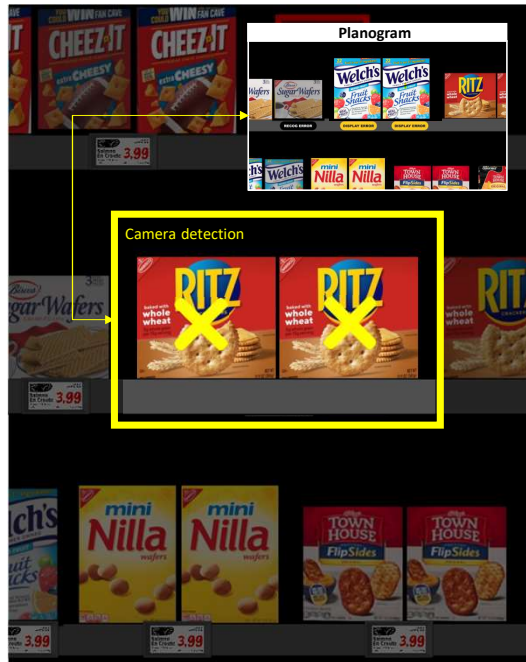
18

USER1

Mapping

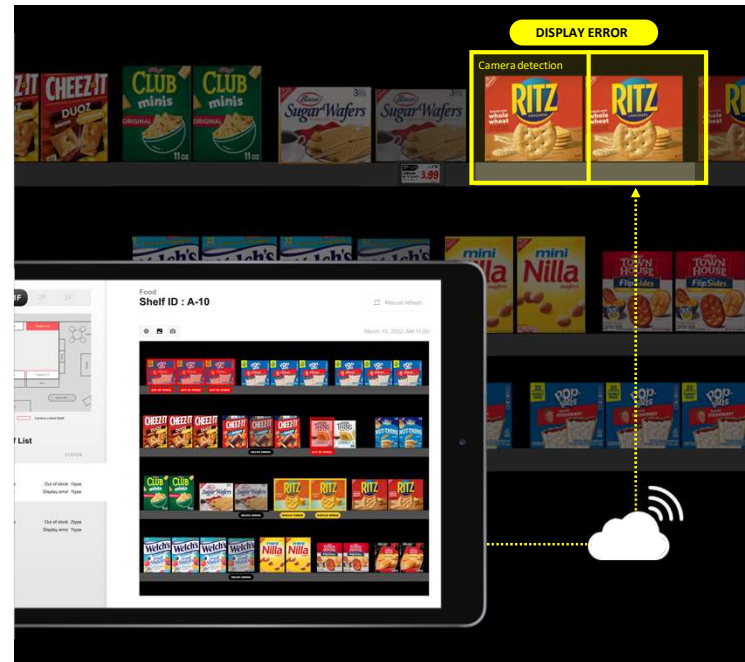
ROG creation





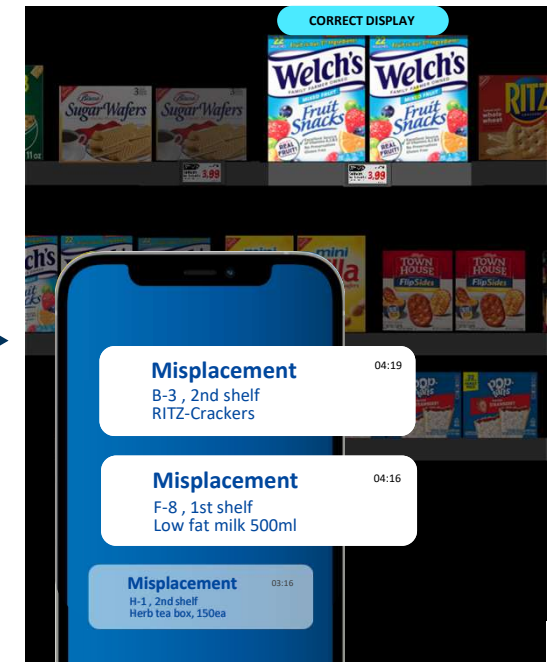
1. DETECTING MISPLACEMENT

In case of product misplacement by shoppers, Camera solution can capture the scene



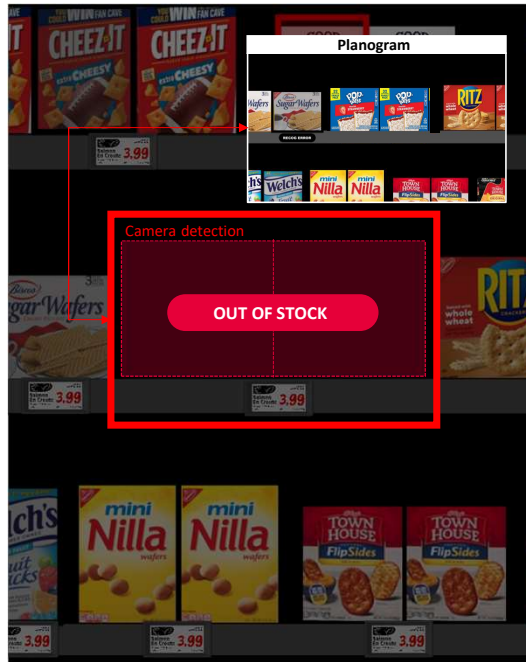
2. SOLUM NEWTON TRAM DASHBOARD

The captured scene sent to the dashboard right away and analyzed which products with misplacement issue based on planogram



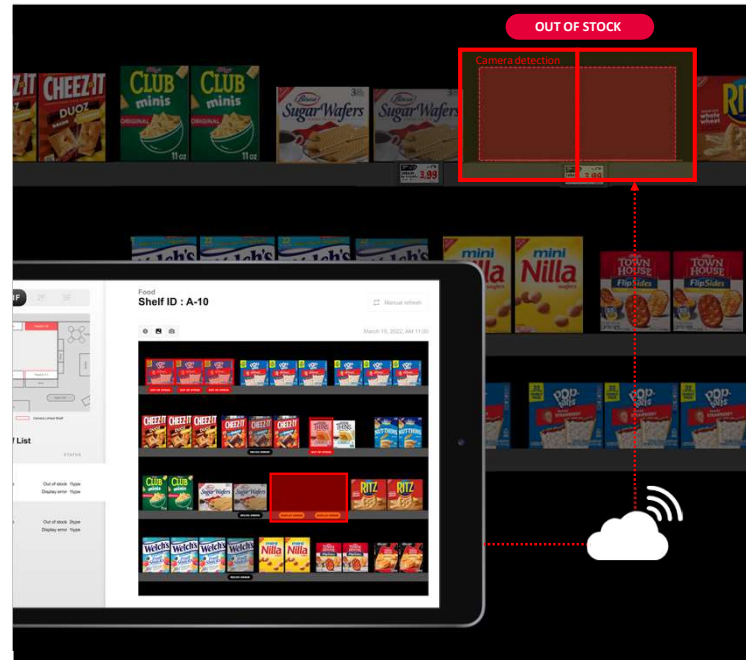
3. ALERT MESSAGE TO STAFF

Push the alert to staff to notify the current issue in order to solve misplacement issue



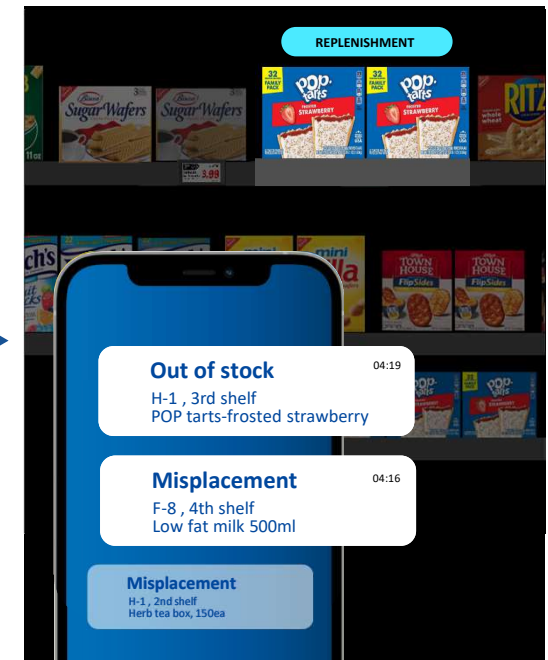
1. OUT OF STOCK

In case of out of stock products, camera solution can capture the scene



2. SOLUM CAMERA SOLUTION DASHBOARD

The captured scene sent to the dashboard right away and analyzed which products with low stock or out of stock

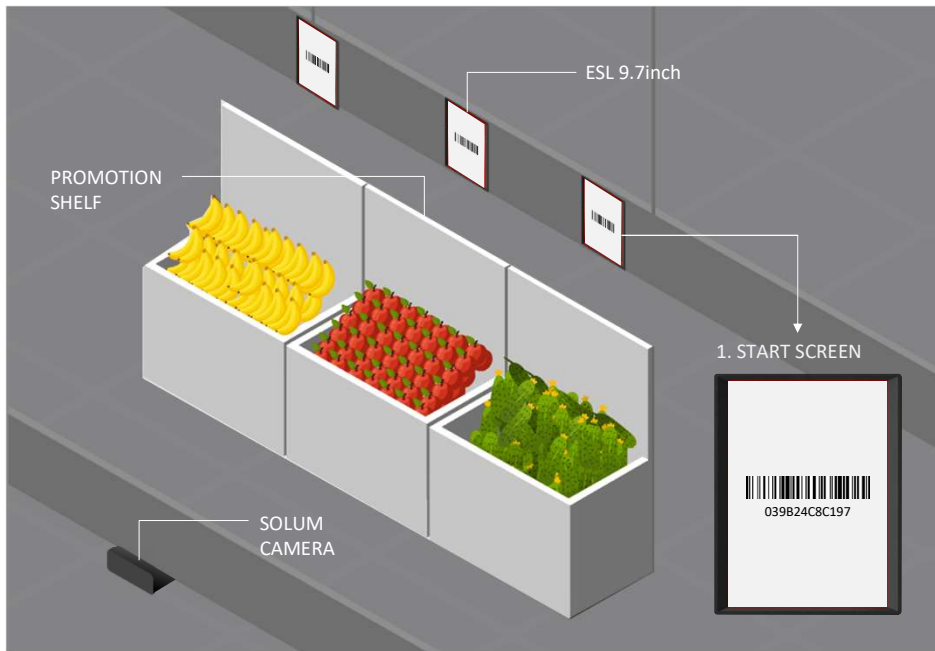


3. ALERT MESSAGE TO STAFF

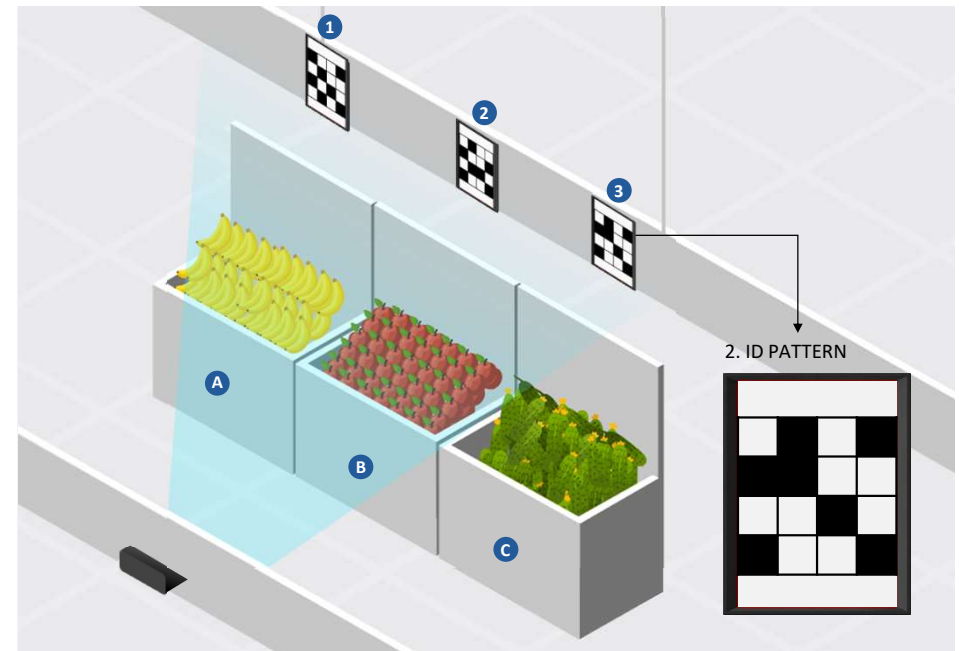
1) STOCK REPLENISHMENT BY STAFF

2) SMART ORDERING

In case there is no available stock in the store, staff requests for the delivery order to warehouse



1. Auto-assign solution will help to automatically update ESL label pricing information from that of real product based on POG



2. There are camera under promotion board and, 9.7" ESL product on the other side displaying ID pattern helping to identify which ESL has to connect to the real product

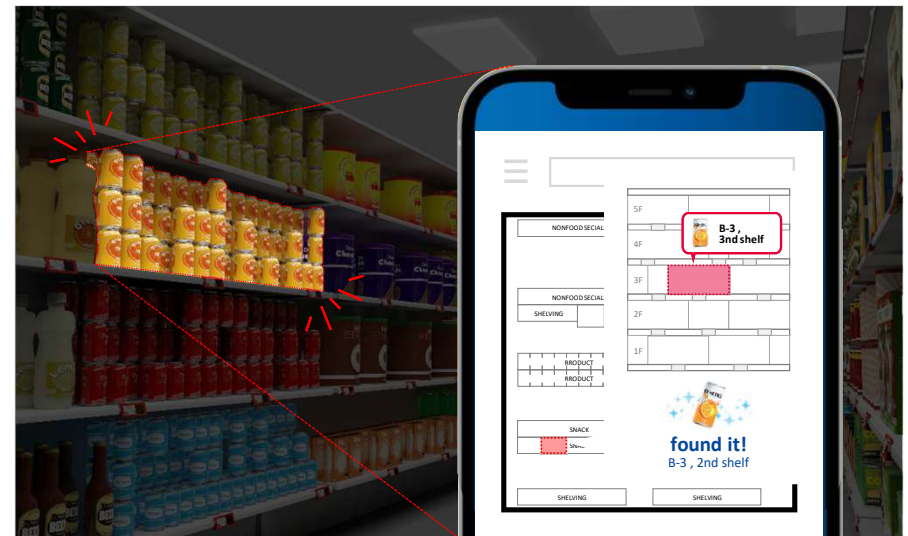
AS-IS : TRADITIONAL WAY IN STORES



DIFFICULTY OF RESPONSE IN REAL-TIME

When customers and staff face with planogram issues, it is difficult to solve them right away because customers need to find staff first and then staff can help them out to meet their needs. After all, it takes time to take action for it

TO-BE : BENEFITS WITH NEWTON EYE



HELPERS FOR BOTH CUSTOMERS AND STAFF

In case of planogram issues such as out of stock and misplacement product, both customers and staff can search and find the product on their mobile device(which shows where it is located on) thanks to the tag assigned to the product. Therefore, customers don't need to ask the assistance and staff can replenish products, and replace items to the right place

CAMERA SOLUTION

POC offering

Option #1.

Minimum Cost POC

- \$30 / camera
- 6 months

Option #2. In case VIP customer;

FOC POC available

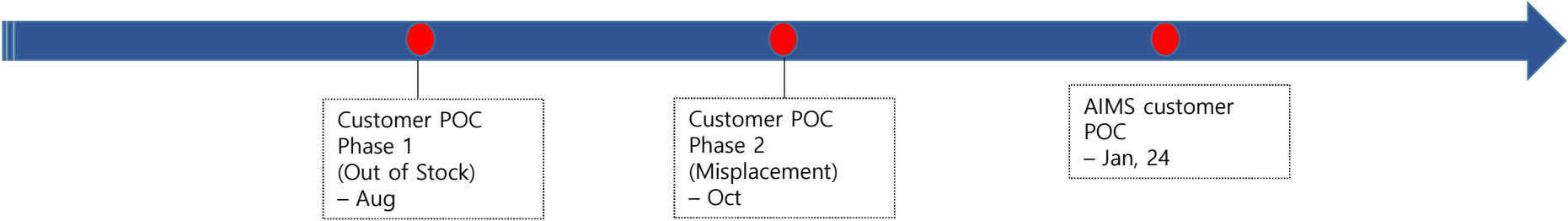
- Max 100pcs camera / store
- 6 months

Common Condition

- SaaS user customer based
- Cooperation of Camera solution with SOLUM
- Sharing usage and the feedback of Newton Eye
- Update the camera solution status every month
- Suggestion future usage

* Purchase the camera after POC(in case to roll out)

** Charges SaaS & GPU Machine usage cost



SOLUM CAMERA SOLUTION

WARNING: This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

IMPORTANT NOTE : FCC RF Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

ISED Information to User

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s).
Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Caution:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

RF Exposure Statement:

To comply with ISED RF exposure compliance requirements, a separation distance of at least 20 cm must be maintained between the antenna of this device and all persons.

Le présent appareil contient des émetteurs/récepteurs exempts de licence conformes aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence.

L'exploitation est autorisée aux deux conditions suivantes :

- (1) L'appareil ne doit pas produire de brouillage;
- (2) L'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Attention :

Tout changement ou modification non expressément approuvé par la partie responsable de la conformité peut annuler le droit de l'utilisateur à utiliser l'équipement.

Déclaration d'exposition aux RF :

Pour se conformer aux exigences d'exposition aux radiofréquences d'ISED, une distance de séparation d'au moins 20 cm doit être maintenue entre l'antenne de cet appareil et toute personne.

-PMN(Product Marking Name) : Newton Eye

-FVIN(Firmware Version Identity Number) : V36

THANK YOU

Meet the ESL experience

SOLUM
Solution provider.