

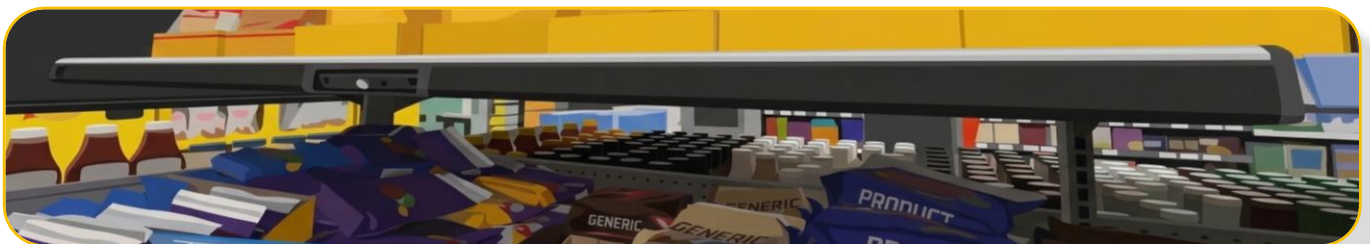
TopStock Rail

User Guide

VusionGroup SA
24.1.2024

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BASIC TOPSTOCK FEATURES

Topstock Rail is an intelligent shelf-monitoring system designed to deliver real-time visibility into product availability across both shelves and overhead storage. It utilizes specialized Topstock lenses installed along elevated racks to continuously monitor items stored above the aisles. Powered by advanced computer vision, these lenses detect product presence, identify misplaced inventory, and flag low stock conditions in Topstock, an area that has traditionally lacked visibility and often contributes to hidden out-of-stock scenarios.

By digitizing this overhead inventory layer, Topstock Rail enables retailers to proactively surface available stock and trigger timely replenishment. Complementing this capability, the center lens focuses on the customer-facing shelves, capturing real-time insights into on-shelf availability, facings, and gaps. Together, the Topstock and center lenses provide a unified, end to end view of on the sales floor.

This integrated system enhances replenishment efficiency, reduces out-of-stock incidents, and improves store operations by delivering precise, actionable insights to associates, ensuring products are always available where customers expect them

TECHNICAL DETAILS

TopStock

Charging:	No
Resolution:	108 MP
Motorized Lens:	Yes
Motion Sensor:	Yes
In-camera GDPR protection:	Yes
Dimensions:	1205 x 52 x 48 mm
CPU:	ARM 32 Bit SOC
RAM:	128MB
Internal Flash:	32MB
LED:	RGB LED
Networking:	AC 2.4/5GHZ WIFI
Active NFC:	No
Bluetooth:	2.4 GHz
BLE Standard:	5.4
WIFI:	2.4 GHz / 5 GHz (WIFI 5 PSK) 2412~2462/5250~5350/5470~5725/5725~5850MHz
Wireless firmware update:	Yes
Operating Temperature:	10 °C - 40 °C
Compliance:	CE, RoHS, FCC/IC
Packaging Unit:	4 rails / box
Weight:	2796 g with batteries

IMPROPER USE



- Never open or disassemble the electronic device, only the battery may be replaced by trained users.
- Do not use the electronic device if it is defective.
- Unauthorized changes or modifications to the electronic device and their components without the consent of VusionGroup are not allowed.
- Do not use the electronic device with spare parts and accessories which are not tested and approved by VusionGroup.
- NEW AND USED BATTERIES CAN BE HAZARDOUS, KEEP THEM OUT OF REACH OF CHILDREN**

Swallowing or placing batteries inside any part of the body may lead to severe or fatal injuries within 2 hours, due to chemical burns and potential perforation of the Esophagus.

If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.

- CAUTION:** The battery used in this device may present a risk of fire or chemical burn hazard if mistreated. Do not recharge, short-circuit, disassemble, heat above 100°C (212°F), incinerate or bend the battery.
- Please handle the TopStock Rail carefully.
- Prevent damage by water and intrusion of liquids into the TopStock Rail. Direct contact to water shall be prevented.
- Do not drop the product to the floor. If TopStock Rail is dropped, check whether the TopStock Rail is still working or has any visible damages.
- Strictly avoid direct contact with groceries.
- Do not use harsh detergents containing alcohol or abrasive additives to clean the TopStock Rail.
- We assume no liability for stolen TopStock Rails.
- Keep the product and its batteries away from children.
- Examine devices and make sure the battery compartment is correctly closed. Do not use the product if the compartment is not secure.
- Do not throw the electronic device nor batteries into the garbage. Give them to a recycling company or contact VusionGroup for handling advice.
- Preferably transport all TopStock Rails in the original packaging. Never transport loosely packed products.

REQUIREMENTS

V:Cloud

- Working Vusion ESL installation
- V: Cloud API + Vusion Manager Pro access for Store
- Wi-Fi and BLE Access for TopStock Rail
- Store internet with upload faster than 10 Mbit/s
- Backoffice Data in V: Cloud
 - Product
 - Manufacturer
 - Item Name

SUPPORT

For further information regarding the TopStock Rail please contact us:

VusionGroup Inc.
Bundesstraße 16
77955 Ettenheim
Germany

E-Mail: info@captana.ai
Phone: +49 (0) 7822 861996 0

COMPLIANCE

FCC

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.

CAUTION TO USERS

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

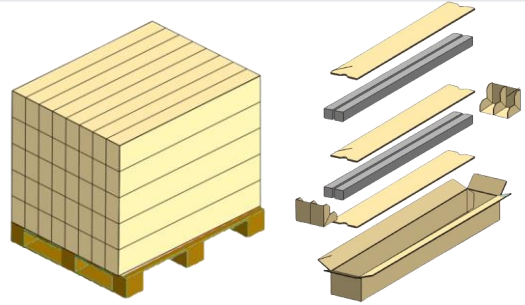
FCC rules apply to the following products: TopStock (TSR2-0120-A)

INSTALLATION

What You'll Need

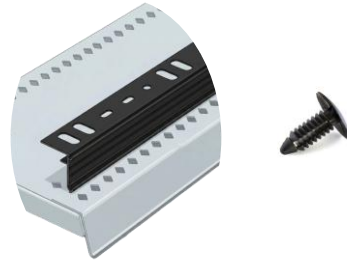
1

TopStock Rails



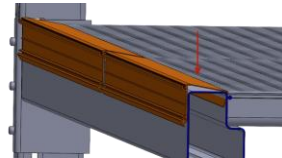
2

Standard Adapter



3

Warehouse Adapter



4

Wire Frame Adapter



5

Topstock Companion App



Choose Your Adapter Type

Select the adapter that matches your shelving. Install before mounting the rail.

Standard

Grocery & retail shelving

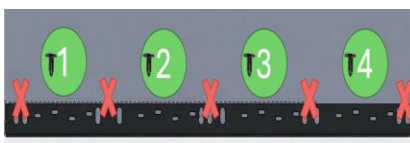
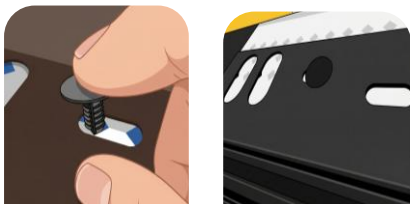
- 1 Press adapter firmly against front shelf edge — no gap



- 2 Back of adapter must lie completely flat — no tilt



- 3 Insert 4 push-in rivets until each clicks flush



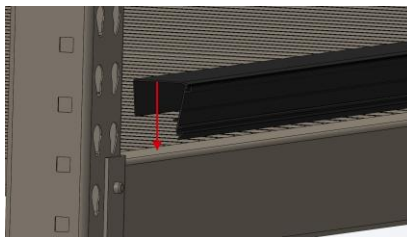
Warehouse

Heavy-duty pallet & bulk shelving

- 1 Remove tape liner



- 2 Push adapter straight down onto the shelf.



Wire Frame

Open wire grid shelving

- 1 Set adapter above shelving Facing



- 2 Push down until fully seated



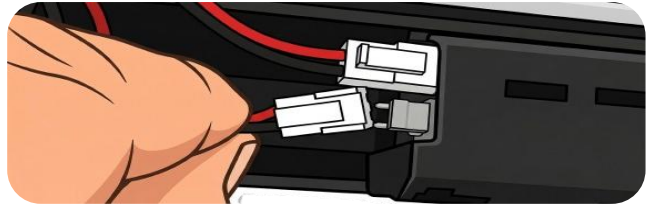
- 2 Push lower section of adapter until it clicks firmly onto the bottom of the shelf edge



Install the Rail

1**Plug in Both Batteries**

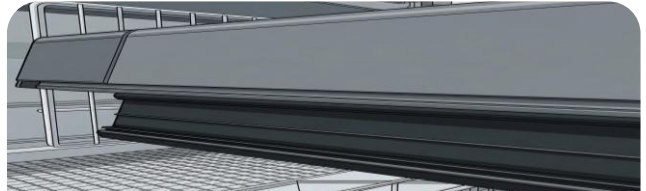
Connect both Molex plugs firmly into their ports. The rail LEDs should flash briefly to confirm power.

**2****Close the Battery Covers**

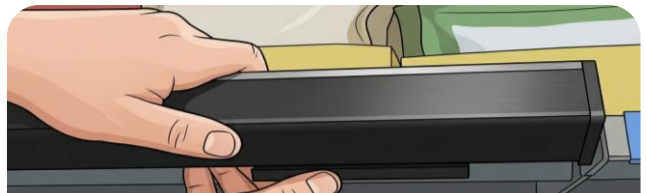
Push both covers firmly until you hear a click. Covers must be fully seated before mounting the rail.

**3****Hold Rail — Camera Up**

Hold the rail with the camera facing up, then place it on the front edge of the adapter.

**4****Rotate Down**

Rotate the rail downward until it sits flat against the shelf face.

**5****Pinch & Click**

Pinch the two side tabs. Press until the rail clicks securely into place.



Access the TopStock Companion App

The installation companion app guides you through every step.

1 Open the App

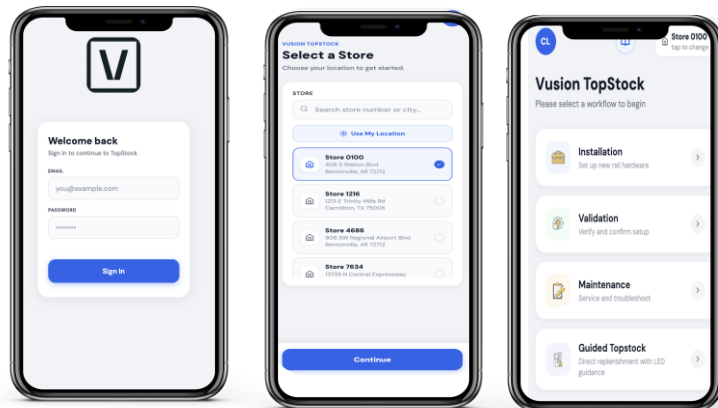
Navigate to the app URL on your mobile device.
The app works in your phone's browser — no download required.



2 Log In

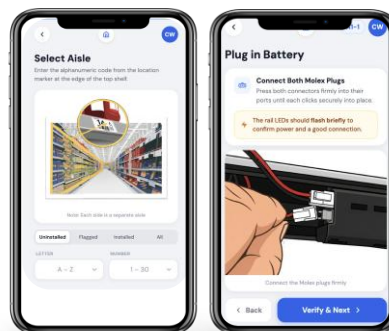
3 Select Your Store

4 Choose Installation Flow



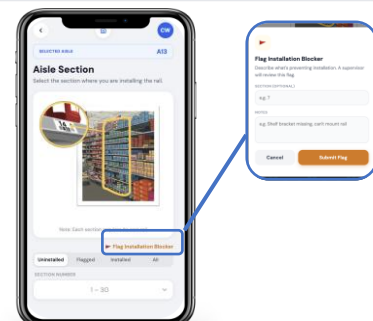
5 Select Aisle and Section

6 Ensure Battery is Plugged



7 Flag a Blocker (if needed)

If something prevents installation
e.g. damaged shelf, missing bracket, obstruction
Tap Flag Installation Blocker.
A supervisor will review it. Skip and continue to the next section.



Setup Rail

1 Scan the Rail Barcode

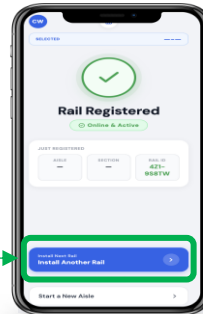
The app connects the rail to the network.
You will see Online & Active confirmation.
The rail is now live in the system.

If the rail fails to connect to the network,
Follow the steps and retry



2 Continue to Next Section

Tap Next Rail to advance to the next section automatically.
Repeat until all sections in the aisle are complete.



Validation — Checking Completion

After installation, a supervisor reviews each aisle in the Validation flow to confirm every rail is online and healthy.

1

Follow The Progress

Gray Zones are not started
Blue Zones are started but not complete
Orange or Red indicate issues or Failures
Green is Complete with all QC passing



2

Find any Issues

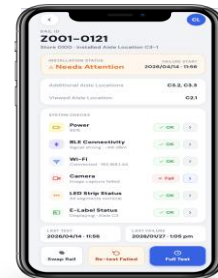
A tiered system will allow you to follow the trouble
Drill down from Zone to Aisle to Section
Identify problematic rails



3

Failure Resolution

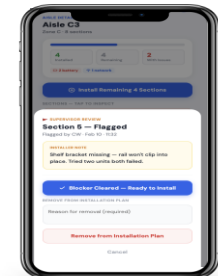
The Rail Detail Page will show which component is failing QC
Retry on demand and/or Guided troubleshooting is available
Follow the flow to resolve issues



4

Resolve Flagged Sections

Find Flagged Sections
Review Comments
Clear Blocker to resume installation or
Remove Section from Installation Plan if necessary



5

Validate Entire Install Complete

Every section shows a green checkmark.
All system checks pass
Power, BLE, Wi-Fi, Camera, LED Strip, E-Label.



If Something Is Not Green

Follow the troubleshooting trail in the app. Issues are prioritized from upstream to downstream — always resolve in order.

Troubleshooting Priority Order

1

Power

Check battery packs, connections, extension cable, wiring run

2

Network (BLE / Wi-Fi)

Check signal strength, connectivity, association timeout

3

Camera

Check for damage, obstruction, or lens cleanliness. Power cycle if needed.

4

LED Strip

Strip driver error — rail may need replacement

5

E-Label

Tag not responding or unlinked — check registration



Rail Swap

If all checks fail or damage is confirmed, the rail must be replaced. Use the app's Swap Rail function to guide removal, installation, and re-registration. Removed rails go through the RMA process.