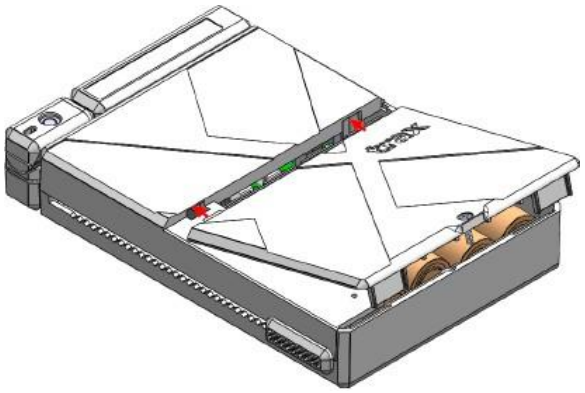
Trax Shelf Camera V1.1

Device Model: 2018-01

Operating manual



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Specifications

Power supply

- 4x AA batteries
  Or
- 5V/500mA via power cord

Wi-Fi

- 802.11 b/g/n Radio
- Supports WPA2 personal and enterprise security

Camera module

- Resolution- 2592X1944 QSXGA, 5MP
- Aspect ratio- 4:3
- f. number- 2.8
- DFOV- 67.4
- CDAF autofocus

Operating conditions

- For indoor use only
- -20 to 50C operating condition and -40 to 70C storage
- 90% humidity

System overview

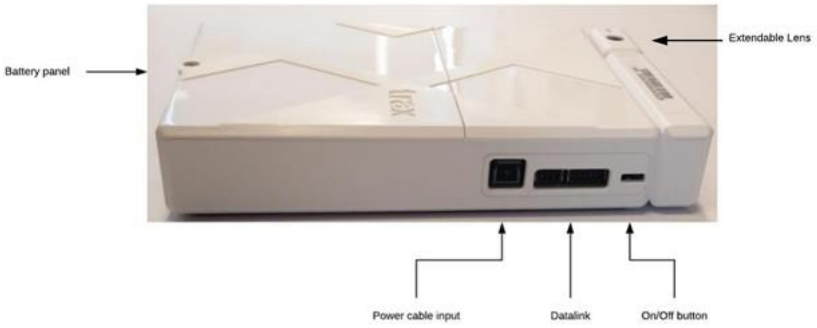
Trax Shelf Camera V1.1 is a low energy, low profile wireless camera for the retail industry.

Trax Shelf Camera V1.1 is designed to capture and digitize the shelf; It consists of a camera body and an adjustable lens.

Trax Shelf Camera V1.1 can be powered using a power cable OR on 4x AA batteries.

The control and I/O of the camera is visible on its side and includes:

- Datalink port
- Power cable input for non-battery power operation
- ON/OFF switch



Required tools

- Trax Shelf Camera V1.1
- Philips screwdriver sizes 1.0 mm
- Hex screwdriver size 2.0mm -Lens adjustment
- Hex screwdriver 2.5mm - bracket holder

Perquisites

Prior to starting the installation, make sure to verify the following things:

1. Wi-Fi router, access point or any other Wi-Fi infrastructure
2. Gateway device is on and connected both to the local network and the cloud.
3. Trax Shelf Camera V1.1 is pre-configured to the installation site

Installation steps

1. Locate the designated installation spot according to the installation plan.
2. Verify the camera body and lens position on the shelf – use the pully to extend the camera lens to its proper position.

3. Prepare the installation surface by cleaning any dust or glue residue from the shelf.
4. Remove the adhesive cover from the two double-sided tape strips on the camera body

5. Mount the camera body in the designated area, press the camera body firmly to the surface to make sure both strips are touching the mounting surface.
6. Remove the adhesive cover from the double-sided tape strip of the camera lens and place it in the designated area

7. Turn on the camera by using the power button – a blue LED indicator should turn on for several seconds.

8. Verify the lens position by inspecting the image received in the gateway unit.
9. Adjust the camera lens so the frame would include the subject - to rotate the lens on its pivot, use the hex screwdriver to loosen (anti-clockwise) or tighten (clockwise) the lens pivot.
10. Pull the pully back gently, until no slack is noticeable without applying force on the ribbon cable.

Replacing batteries

When operating on batteries, the camera may required battery replacement from time to time.

1. Turn off the camera using the ON/OFF switch
2. Unscrew the screw at the bottom end of the battery panel

Battery panel screw

3. Open the panel, replace the 4x AA batteries with new ones.
4. Close the panel and refasten the screw.

Support

Camera does not connect to the network

Camera attempts to resend image 3 times – blue LED turn on and off 3 consecutive times

1. Verify Wi-Fi network is available
2. Verify gateway unit is connected and configured on the network
3. Try using the same device closer to the Wi-Fi access point

In case the steps above do not resolve the issue, reach support for assistance- refer to supportsection

Camera head is loose

1. Using a 2.0mm size hex key, turn the screw clockwise to lock its position.

Camera does not turn on

Battery operated

1. Make sure the power switch is in ON state
2. Replace 4x AA batteries

Power cable operated

1. Make sure the power switch is in ON state
2. Make sure the power source is on and supplies 5V @ 500mA or above
3. Verify no batteries are inside the camera.

In case the steps above do not resolve the issue, reach support for assistance- refer to support section

Camera does not send images

The camera is visible on the network, but images are not sent

1. Verify the camera ribbon cable is not damaged

In case the steps above do not resolve the issue, reach support for assistance- refer to support section

Support

In case any assistance is needed for installation or operation, please contact support via theTSA app.

Warnings

Trax Shelf Camera V1.1 is designed for indoor installation.

Power cord (DC) operation and battery powered operations are mutually exclusive –
DO NOT CONNECT THE POWER CABLE IN CASE BATTERIES ARE WITHIN THE UNIT.

In case the Trax Shelf Camera V1.1 is operating using a power cord, the power source must be at 5V @ 500mA (or higher).

FCC Class B Warning

Class B

The FCC Wants You to Know

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

a) Reorient or relocate the receiving antenna.

b) Increase the separation between the equipment and receiver.

c) Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.

d) Consult the dealer or an experienced radio/TV technician.

CAN ICES-3 (B) / NMB-3 (B)

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de classe B est conforme à la norme canadienne ICES-003.

FCC Warning (Modification statement)

Modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment under FCC Rules.

ISED Warning (Modification statement)

TraxRetail n’approuve aucune modification apportée à l’appareil par l’utilisateur, quelle qu’en soit la nature. Tout changement ou modification peuvent annuler le droit d’utilisation de l’appareil par l’utilisateur.

FCC RF Exposure Warnings

1. **Mobile Device definition: Mobile**: (§2.1091) (b) — A mobile device is defined as a transmitting device designed to be used in other than fixed locations and to generally be used in such a way that a separation distance of at least 20 centimeters is normally maintained between the transmitter's radiating structure(s) and the body of the user or nearby persons. Per §2.1091d(d)(4) In some cases (for example, modular or desktop transmitters), the potential

conditions of use of a device may not allow easy classification of that device as either Mobile or Portable. In these cases, applicants are responsible for determining minimum distances for compliance for the intended use and installation of the device based on evaluation of either specific absorption rate (SAR), field strength, or power density, whichever is most appropriate.

2. **Statement in UM:**

RF Exposure - This device is only authorized for use in a mobile application. At least 20 cm of separation distance between the (Product Name) device and the user's body must be maintained at all times.

FCC Interference statement (if it is not placed in the device)

This device complies with Part 15 of the FCC Rules and Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie 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, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Wireless notice

This device complies with FCC/ISED radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines and RSS-102 of the ISED radio frequency (RF) Exposure rules. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Le présent appareil est conforme à l'exposition aux radiations FCC / ISED définies pour un environnement non contrôlé et répond aux directives d'exposition de la fréquence de la FCC radiofréquence (RF) et RSS-102 de la fréquence radio (RF) ISED règles d'exposition. L'émetteur ne doit pas être colocalisé ni fonctionner conjointement avec à autre antenne ou autre émetteur.