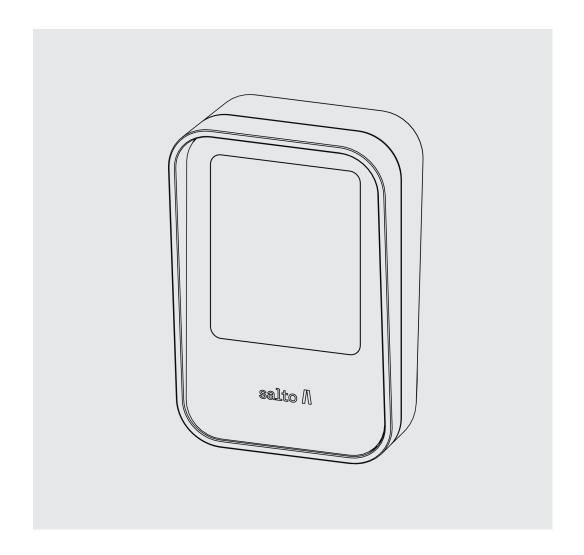


INSTALLATION GUIDE

# XS4 Face







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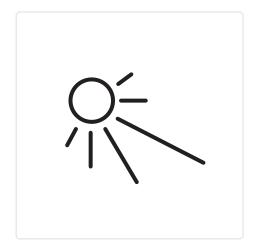
#### AT INITIAL SITE SURVEY AND INSTALLATION

### Considerations



#### **Passing Pedestrians**

Pedestrians passing too close to an XS4 Face Camera may initiate the recognition sequence. There are situations where this may be unavoidable, for example, busy corridors. However, in such cases, it may be advantageous to slightly adjust the dimension at which the sensor is triggered, requiring users to stand slightly closer to the camera. This can help reduce unnecessary load upon the network.



#### **Lighting Conditions**

Camera positions must be carefully considered at pre-installation survey prior to fitting XS4 Face Cameras outdoors or in indoor locations that are subject to bright sunlight or very bright artificial lighting. Ensure that cameras are positioned such that users will never have bright or direct light behind them. Consider how lighting conditions may vary through the day and throughout the year; for example, the sun position will change significantly from summer to winter. The XS4 Face Camera requires a minimum lighting level of 10 Lux in the vertical plane, 600mm from the XS4 Face Camera. In low lighting conditions, (e.g. outdoors at night) lighting should evenly illuminate the user's face.



#### **Passing Vehicles**

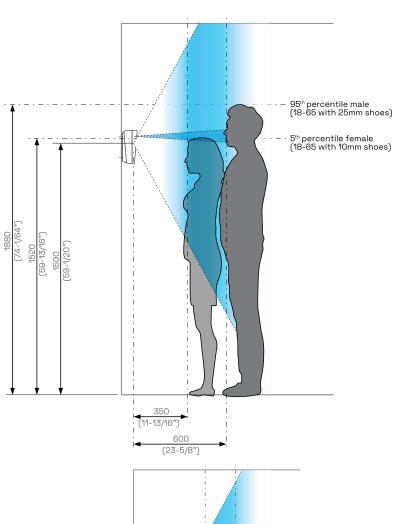
Vehicles passing too close to the XS4 Face camera may initiate the recognition sequence. In a situation such as a busy road this could cause unnecessary load upon the network. Cameras should be positioned such that there is a minimum of 2m between the XS4 Face Camera and any adjacent roadway.

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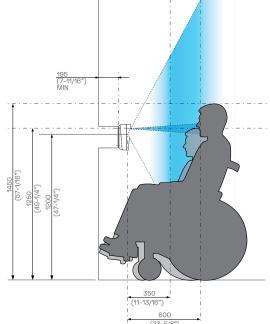
#### AT INITIAL SITE SURVEY AND INSTALLATION

# Considerations



#### **Positioning**

It is important to position the XS4 Face Camera at the specified height. The camera is designed to operate optimally for a user population from 5th %ile adult females, to 95th %ile adult males and at a range from approximately 300mm to approximately 600mm.



#### **Accommodating Disabilities**

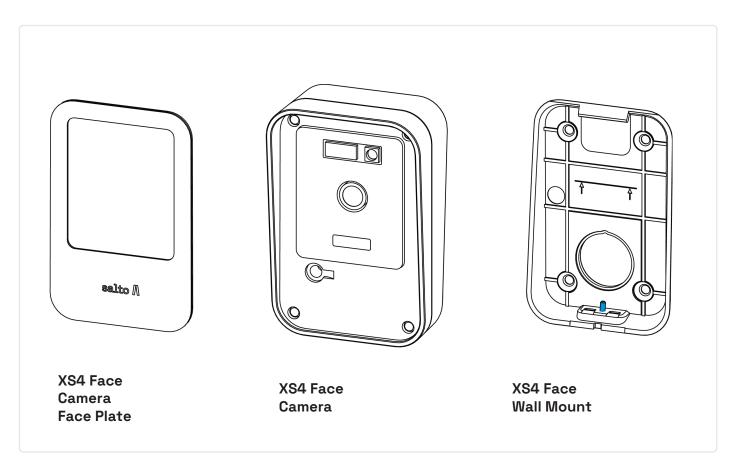
Where an access point is wheelchair accessible, the XS4 Face Camera will need to be set slightly lower, or two cameras should be fitted.

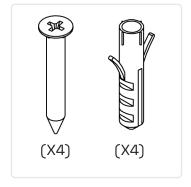
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User height range based on United Nations guidance https://www.un.org/esa/socdev/ enable/designm/AD5-02.htm

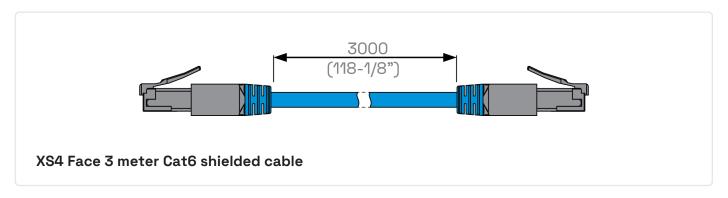


# What's in the box?



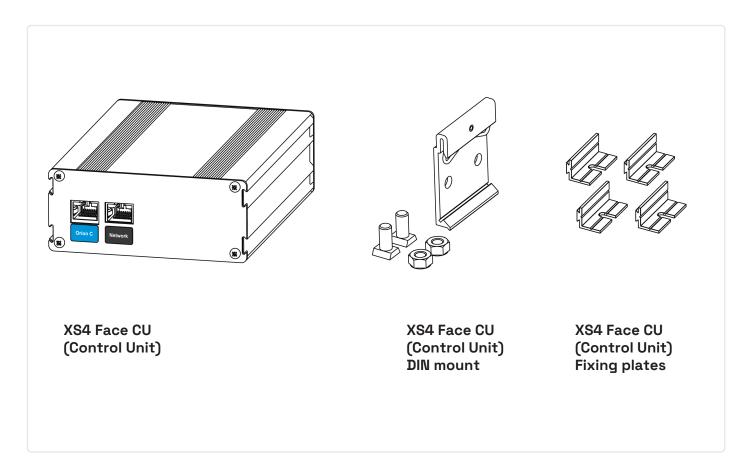


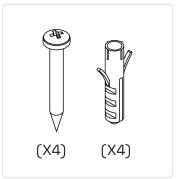






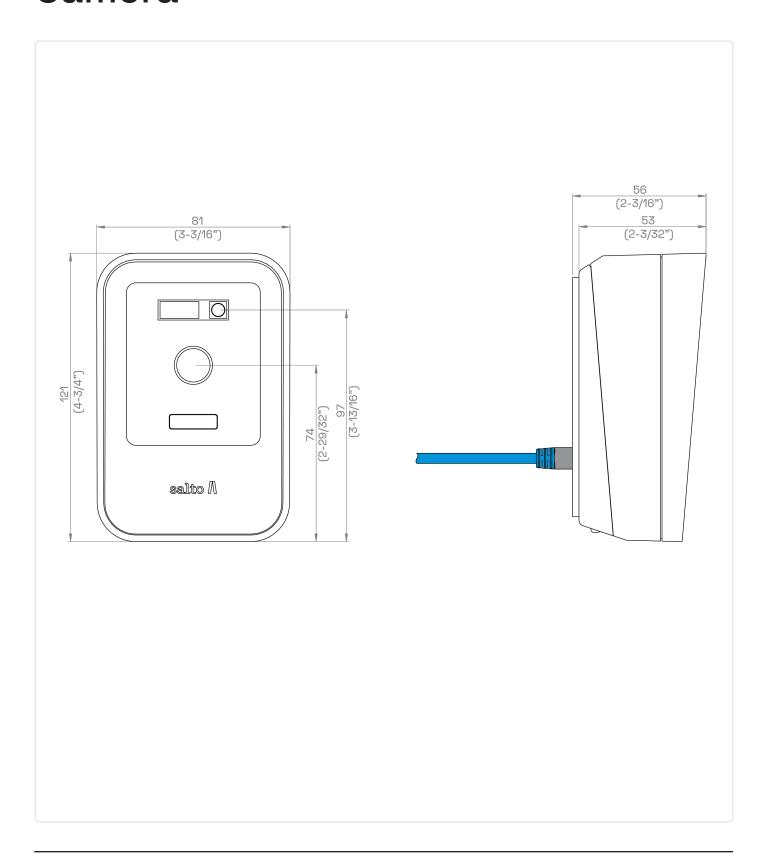
# What's in the box?





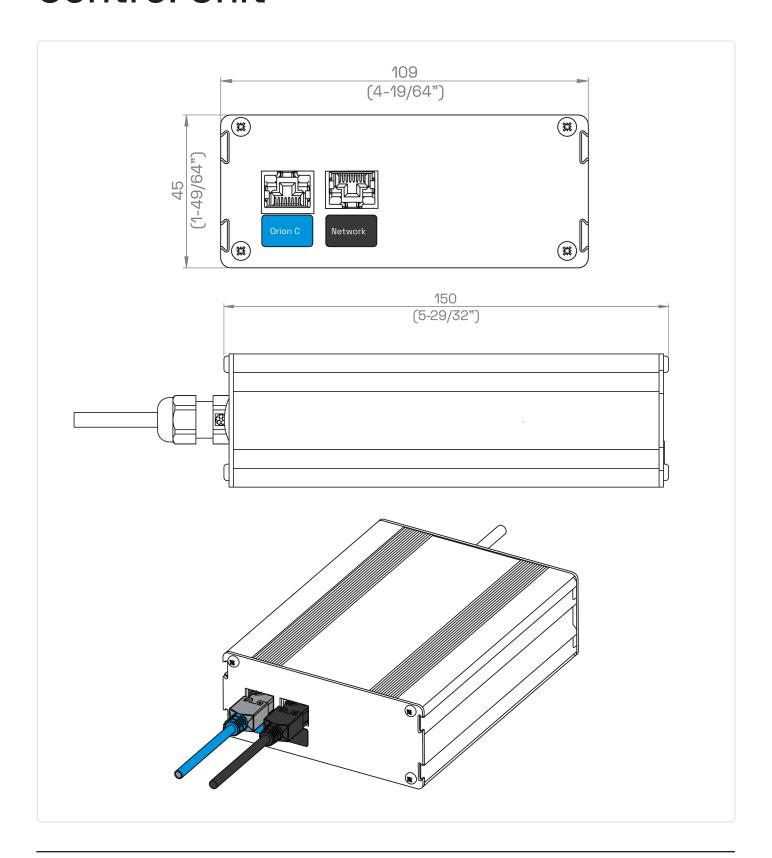


# XS4 Face Camera





# XS4 Face Control Unit





# **Placement**

Installation of a Control Unit above a ceiling behind the locked door (not in the corridor or space outside the locked door), using the provided XS4 Face 3 metre-long cable. 4

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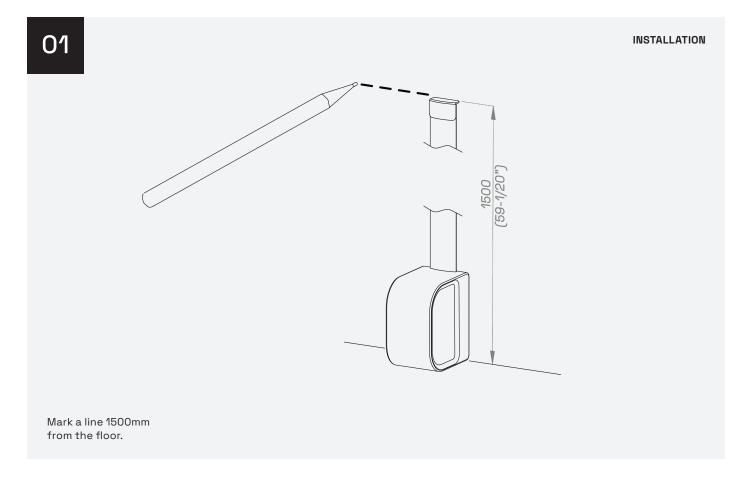


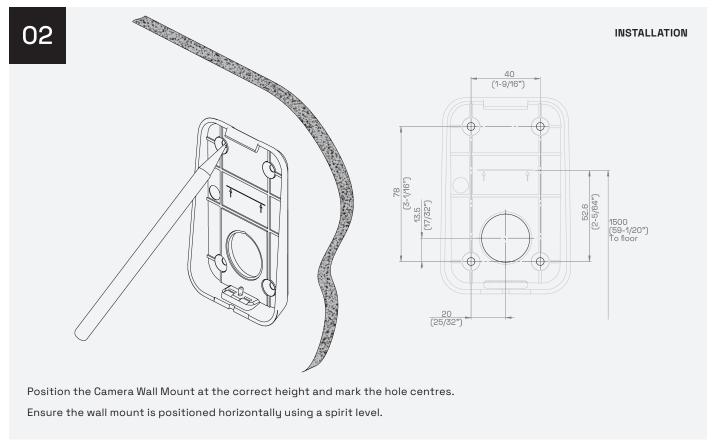
# **Placement**

Installation of a Control Unit in a cabinet behind the locked door (not in the corridor or space outside the locked door), using the provided XS4 Face 3 metre-long cable. 300 (11-13/16") MAX 4

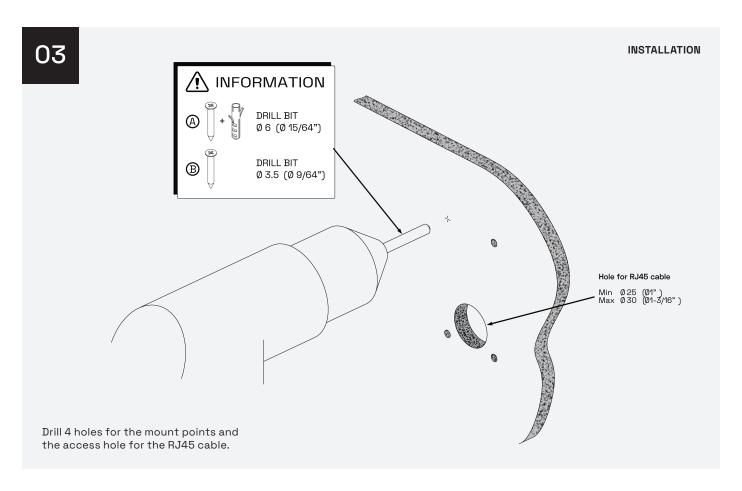
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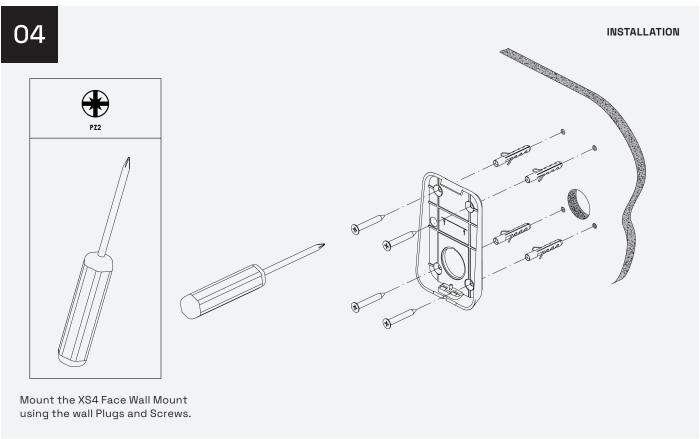




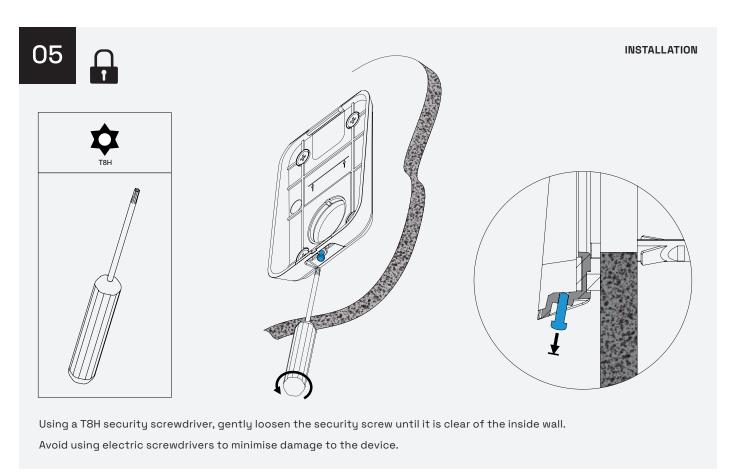


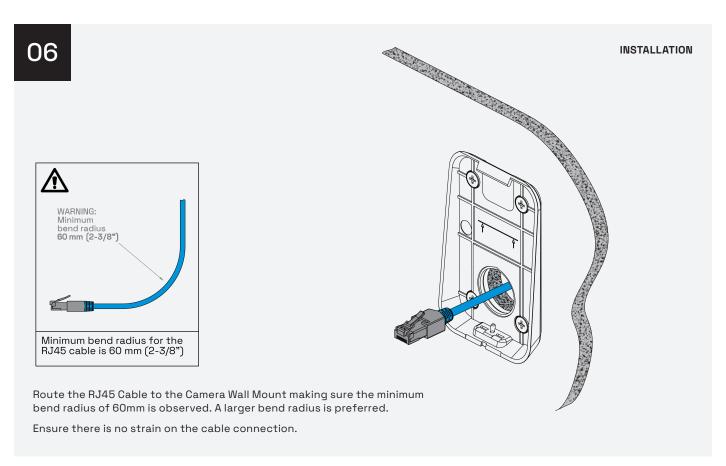






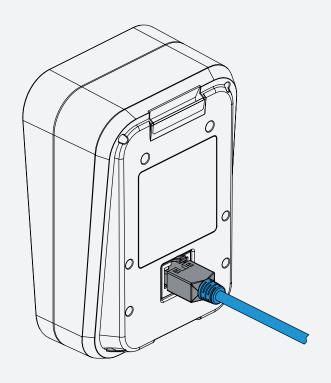






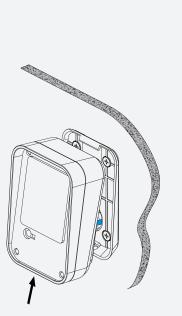


INSTALLATION

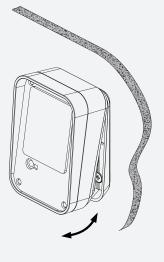


Plug the RJ45 cable into the XS4 Face Camera.

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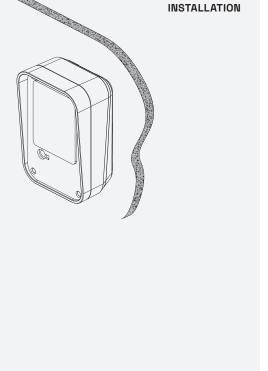


Locate the Wall Mount tongue into the slot on the top of the XS4 Face Camera casing.



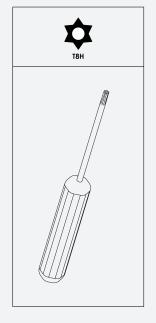


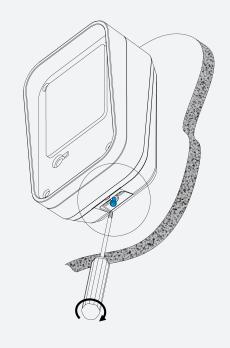
Ensure there is no strain on the cable connection.

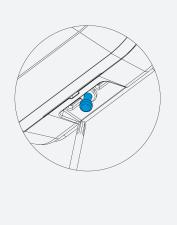




#### INSTALLATION





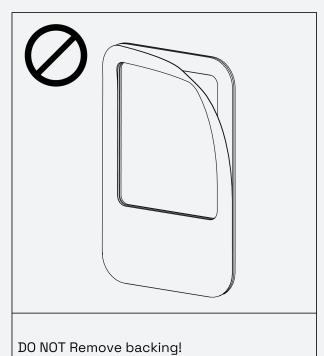


Using a T8H security screwdriver, gently tighten the security screw until it is fully inserted.

Avoid using electric screwdrivers to minimise damage to the device.



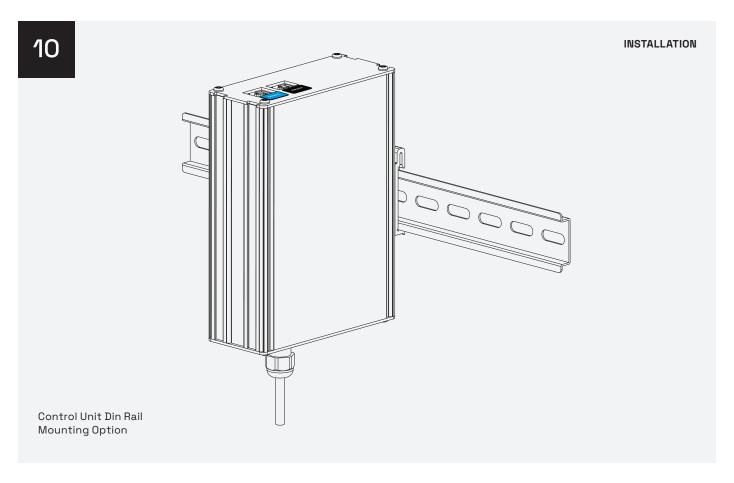


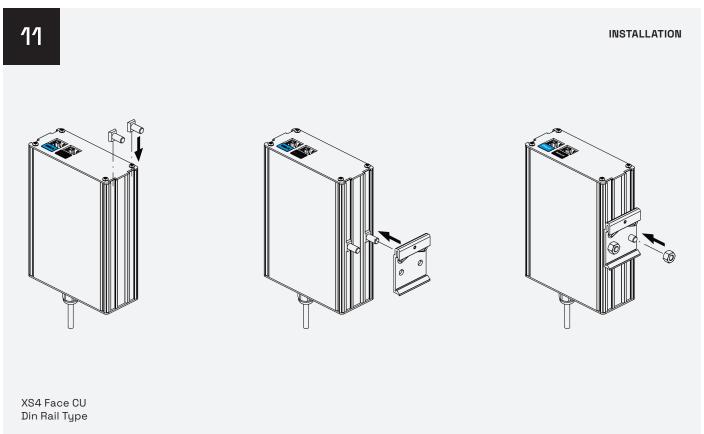


INSTALLATION

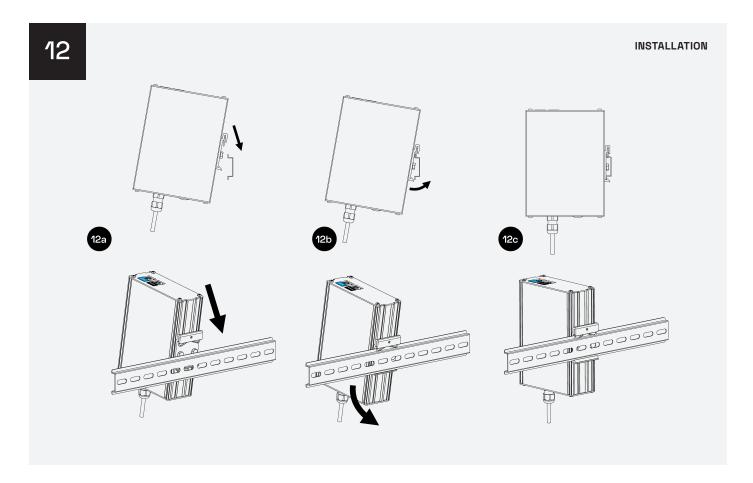
**WARNING:** Face Plate must only be attached after commissioning.

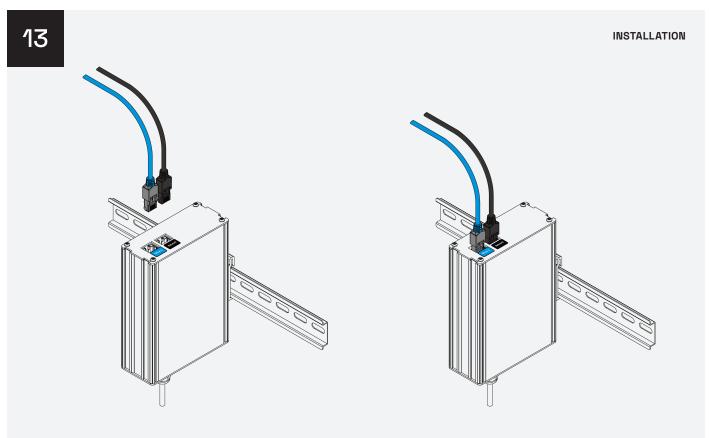




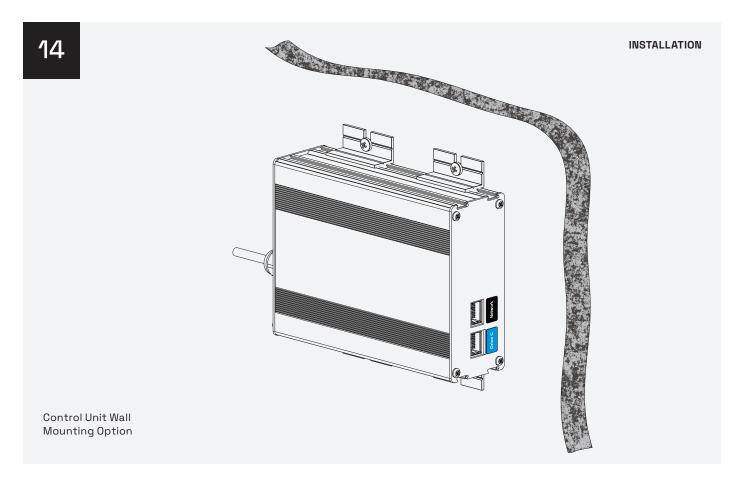


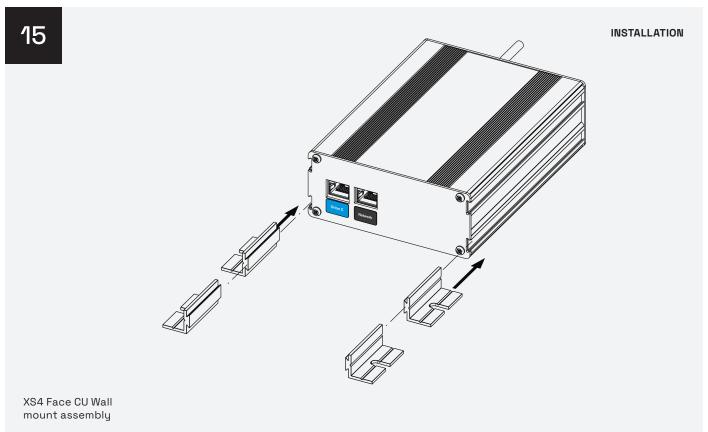






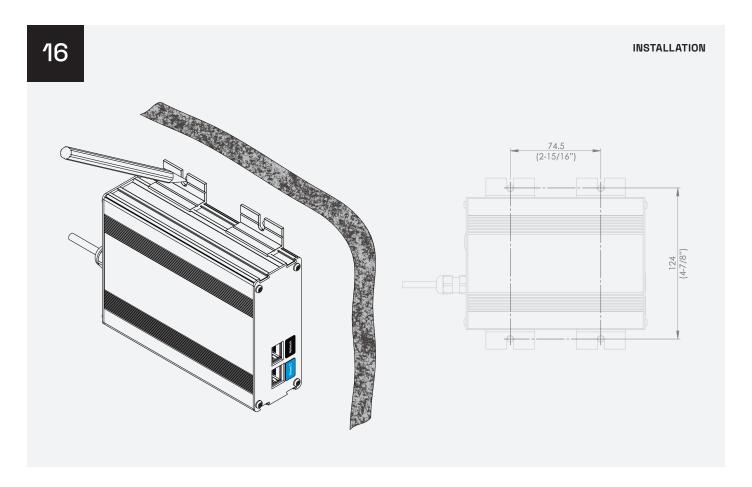


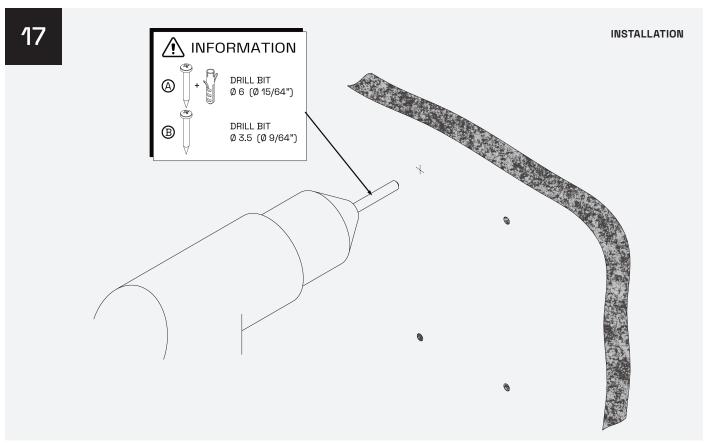




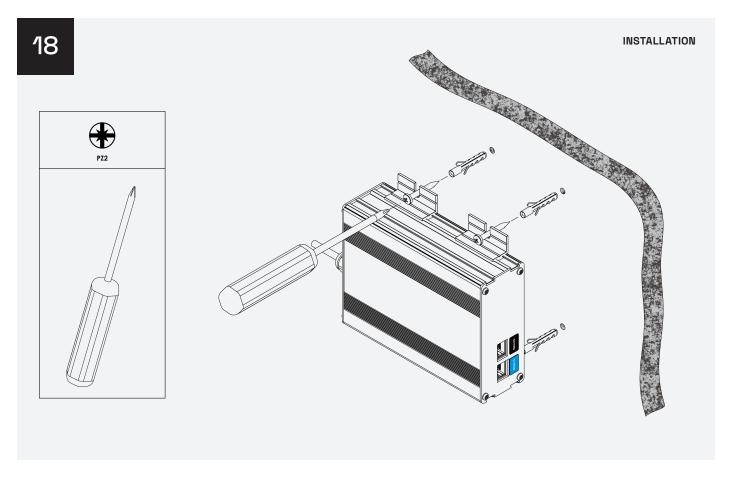
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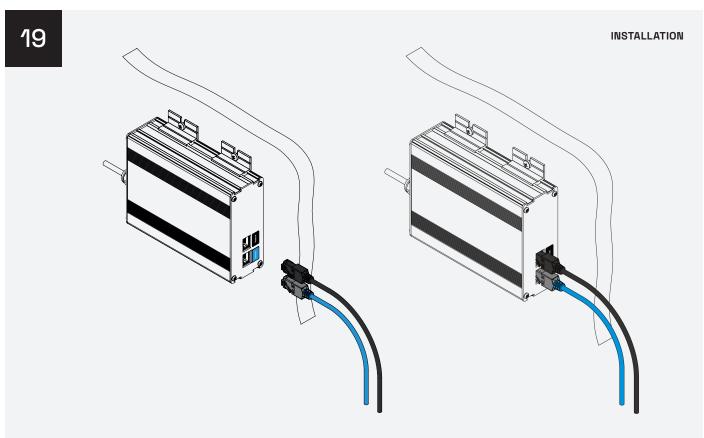




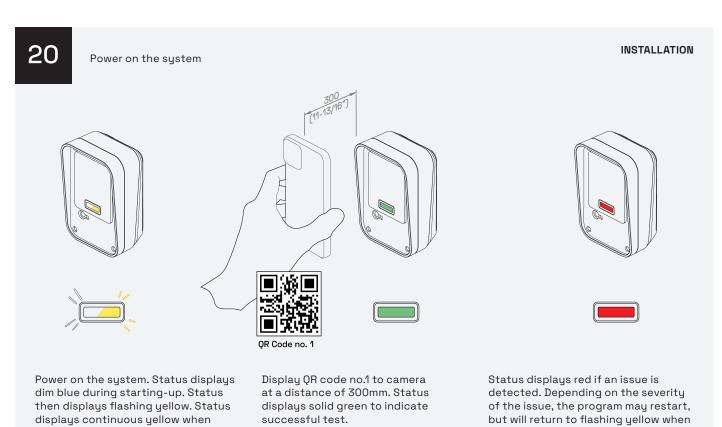














#### INSTALLATION

the QR code is moved away or the

program has restarted.

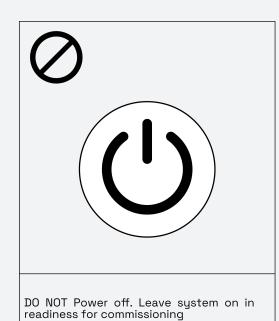


detector is activated (including by

the screen protector film).



Status display returns to flashing yellow to indicate precommission standby mode.

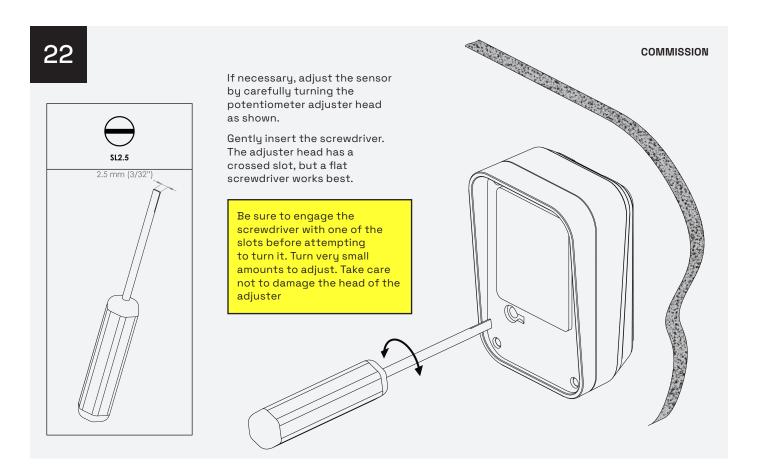


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COMMISSION

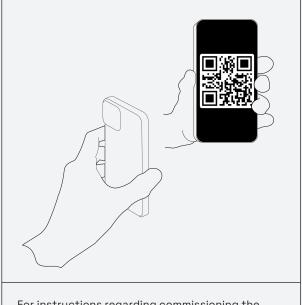
Place your hand at the selected detection distance. Status displays flashing yellow until an object is detected. If status changes to continuous yellow when the hand is at the selected detection distance, the sensor is adjusted correctly.



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#### COMMISSION



For instructions regarding commissioning the XS4 Face Server, please go to the XS4 Face Software User Manual.

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The XS4 Face Console allows each XS4 Face Camera to be paired with its associated SALTO door using a uniquely generated QR code.





XS4 Face Console Login screen: Commissioners of the XS4 Face System will be provided with a URL and login credentials for the XS4 Face Console. Go to the URL. From the globe symbol select preferred language. Click the



XS4 Face Console Credentials Entry page: Enter login credentials for the XS4 Face Console.



XS4 Face Console Sites Selection page: If granted authority to access more than one XS4 Face site (customer building or site), select the appropriate site from the drop-down menu.



#### COMMISSION









Server tab: Click the "View" button to select the server into which the XS4 Face Camera is being commissioned.

Details tab: The "Details" tab provides details about the server. Click the "XS4 Face Devices" tab to manage and add XS4 Face Devices.

Cameras: The "XS4 Face Devices" tab displays the cameras already commissioned to the server. Filter between cameras in "pending", "ready" and "faulty". Click the "Add XS4 Face Devices".

Add XS4 Face Device screen: Use the drop down list to select the SALTO door with which to associate the camera.

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#### COMMISSION









Once the correct SALTO door as been selected, click "pair".

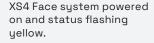
If an incorrect door was selected, use the "Delete" button. Then, use the "add XS4 Face Device" button again to access the list of doors, and select the correct one.

QR code screen: Click "Pair". A unique QR code will be generated. If the correct door has been selected, show the QR code to the XS4 Face Camera. This will initiate the pairing, and the camera will display a sequence of colours on the LED status indicator lights (see below).

XS4 Face Devices tab: The QR code will disappear once the commissioning of this camera is complete.







3000 P



Display QR code no.2 to camera at a distance of approximately 300mm. Status flashes blue to indicate that a commission request is being sent to the XS4 Face Server.

COMMISSION





Flashing green indicates a successful commission response from the XS4 Face Server.

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COMMISSION

#### Note

Red being shown during this process indicates an error. If this error is encountered during a commission request to the server, the status indicator will first show red then blue to indicate that it will re-attempt the request. This red-blue cycle will repeat up to 5 times until there is a green light indicating a successful commission response from the XS4 Face Server.

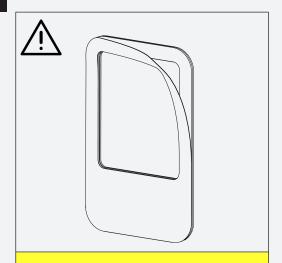
If there is no successful response after 5 attempts, the camera will return to flashing yellow. In this case check the network configuration and the server status

Once commissioning of the Camera is complete the camera status indicator LED will turn off and then show a flashing blue light whilst the Camera is initializing. This will turn to continuous white once initialization is complete.

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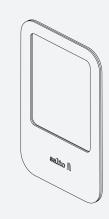


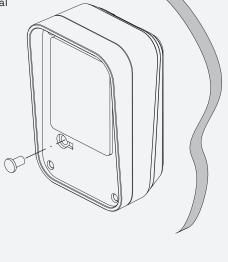
### COMMISSION



WARNING: After attaching to the camera casing the distance sensitivity cannot be adjusted. A final layer of protection and integrity is provided by this cover. Therefore, take special care to ensure that the cover is stuck correctly to the full surface of the camera casing.

Once the sensor is correctly adjusted, replace the bung. Then remove the adhesive backing and apply the metal cover to the front of the camera casing.





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# Specifications and Requirements

#### **POWER**

	MAX	TYP
Input Voltage (Camera)		5V
Input Voltage (Control Unit)		12V
Current Consumption (System)	415mA@12V	12V

#### **CABLE REQUIREMENTS**

	TYPE	MAX LENGTH
External Power Supply	2 core	3m
Control Unit to Camera	XS4 Face	3m
Control Unit to Server / Network Switch	Cat 5e	100m

#### **OPERATING CONDITIONS**

	MIN	МАХ
Temperature	0°C	60°C
Humidity	0%	80% non-condensing

#### **NETWORK CONFIGURATION**

ITEM	REQUIREMENT
VLAN	An isolated IPV4 (V)LAN is required for all Cameras and Locks.
Physical Characteristics	Cat 5e or Cat 6 network with Gigabit switches.
IP Subnet	Must be large enough to allocate addresses to all locks, camera units and servers/controllers Must not be in the range: 172.31.255.0/24
Outbound Ports	Restrict to: 123 - NTP 443 - HTTPS/TLS 8883 - MQTT / mTLS  Should also only permit XS4 Face servers to access outbound ports. XS4 Face devices do not require access outside of the VLAN.
DHCP	DHCP is required to provide IP addresses to XS4 Face devices.  The XS4 Face server must have a <b>reserved IP address</b> that cannot change once XS4 Face devices have been commissioned.
DNS	XS4 Face Server will require access to DNS. Details should be provided by the DHCP server.
Cameras per server	No physical limit. Consideration needs to be given to the number of concurrent access requests that can be expected. Further details can be found on the Salto Support site.
	The server specification given below is capable of providing a sub 2 second response time for 70 concurrent requests over a 10 second timeframe.
Server CPUs / Memory	Min. 3.2 GHz 8 Cores 32GB Memory
	This number of concurrent requests is directly affected by the number of real cores (not virtual cores).
Server Processor Architecture	Intel / AMD x64 must support AVX2 instruction set.
	Supported processors: AMD Ryzen 7 and 9, Threadripper, Intel Core i9, Core i7.
	This is only a guide, confirm the processor supports AVX2.
Storage	Mirrored SSD - 480GB Strongly recommend that physical storage is encrypted.
Operating System	Ubuntu Server Minimal Install 24.04 LTS
	The install process will harden the server installing and configuring a firewall and OS updates.
	The server specified above is sufficient to have Windows 11 Pro installed with Hyper-V. Proaccess Space can be installed on the Windows operating system with XS4 Face installed in a Hyper-V virtual machine with Ubuntu Server minimal.
Access Control System	For Integration with SPACE (Space minimum version 6.9 with SPACE) OPT-0018 (SHIP interface).

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