

SHORT INSTALLATION GUIDE

Salto Orion





SALTO WECOSYSTEM

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Model Electronic Info: FR001 1/7 228189 - ED.0 - 23/07/2024



AT INITIAL SITE SURVEY AND INSTALLATION

Considerations

Passing Pedestrians

Pedestrians passing too close to an Orion 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 Orion 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 Orion Camera requires a minimum lighting level of 100 Lux in the vertical plane, 600mm from the Orion 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 Orion 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 Orion Camera and any adjacent roadway.

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AT INITIAL SITE SURVEY AND INSTALLATION

Considerations



Positioning

It is important to position the Orion 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 Orion Camera will need to be set slightly lower, or two cameras should be fitted.

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What's in the box?



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What's in the box?



(X4)

(X4)







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Specifications and Requirements

POWER

	МАХ	ТҮР
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	Зm
Control Unit to Camera	Orion	Зm
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 (V)LAN is required for all Cameras and Locks.
Physical Charactertistics	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 Orion servers to access outbound ports. Orion devices do not require access outside of the VLAN.
DHCP	DHCP is required to provide IP addresses to Orion devices. The Orion server must have a reserved IP address that cannot change once Orion devices have been commissioned.
DNS	Orion Server will require access to DNS.
Cameras per server	100 cameras per server. This ensures a sub 2 second response time for all users when requests are made from all 100 cameras concurrently (i.e. within a 10 second window).
CPUs / Memory	Min. 3.6 GHz 16vCPU 32 GB Memory This will provide a sub 2 second response time for all users when requests are made from all 100 cameras concurrently (i.e. within a 10 second window).
Storage	Mirrored SSD - 480GB Strongly recommend that physical storage is encrypted.
Architecture	IntelAMD x64
Operating System	Ubuntu Minimal Install 22.04 LTS The install process will harden the server installing an configuring a firewall and 0S updates.
Access Control System	For Integration with SPACE (Space minimum version 6.9 with SPACE) OPT-0018 (SHIP interface).

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