

DATASHEET

Orion: Face Recognition System

Orion face recognition enables convenient access for any user of a Salto access point, requiring only face ID as a credential.

By eliminating the need for traditional physical keycards or mobile credentials, users can effortlessly gain access to Salto access points with their unique facial ID. This cutting-edge technology not only streamlines the access process, but also enhances security by eliminating the risk of lost or stolen credentials.



Orion Camera

TECHNICAL DATA:

Camera dimensions :	81 x 121 x 53 mm 3-3/16" x 4-3/4" x 2-3/32"
Weight:	238 g - 8.4 Oz
Cover material:	ABS Nylon Blend
IP class:	IP55
Certifications:	CE, UKCA, EAC

ELECTRONIC FEATURES:

Power:	5V supplied by the door controller.
Connection between camera & control unit:	Supplied Orion C Cable: CAT6a SSTP LSOH 3m cable (blue).
Firmware update:	n/a
LED status indicator:	Multi colour led to indicate access status.

ELECTRONIC CHARACTERISTICS:

Operations conditions:

	Min	Max	Unit
Temperature:	0*	60	°C
	32*	140	°F
Humidity:	0	80	%

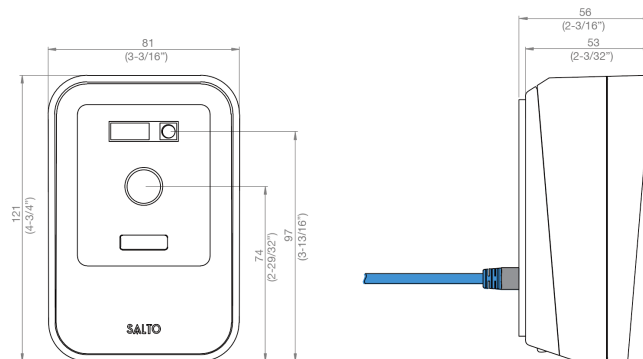
Power consumption:

	TYP	Max	Unit
Camera	360@5v		mA

Cable type and distances:

	Reader
Connection between camera & control unit:	Supplied Orion C Cable: CAT6a SSTP LSOH 3m ethernet cable.

TECHNICAL DRAWING:



CREDENTIAL TECHNOLOGIES:

Face •

FACE PLATE FINISH:

Black Matt Anodised •

Orion Control Unit

TECHNICAL DATA:

Control Unit dimensions :	109 x 45 x 150 mm 4-19/64" x 1-49/64" x 5-29/32"
Weight:	425 g - 15 Oz
Cover material:	Silver Anodised Aluminium
IP class:	n/a
ADA support:	n/a
Certifications:	CE

ELECTRONIC FEATURES:

Power:	12v 1.5A 18w.
Connection between camera & control unit:	Supplied Orion C Cable: CAT6a SSTP LSOH 3m cable (blue).
Firmware update:	Via Orion server.
LED indicators:	On RJ45 connectors.

ELECTRONIC CHARACTERISTICS:

Operations conditions:

	Min	Max	Unit
Temperature:	0*	60	°C
	32*	140	°F
Humidity:	0	80	%

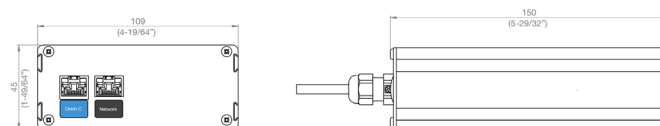
Power consumption:

	Min	Max	Unit
Control Unit		415@12v	mA

Cable type and distances:

	Reader
Control Unit to Server CAT5	100m 328ft

TECHNICAL DRAWING:



COVER STICKER FINISH:

Connection IDs are anoprinted.

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NETWORK CONFIGURATION

ITEM	REQUIREMENT
VLAN	An isolated (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 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.

NETWORK CONFIGURATION

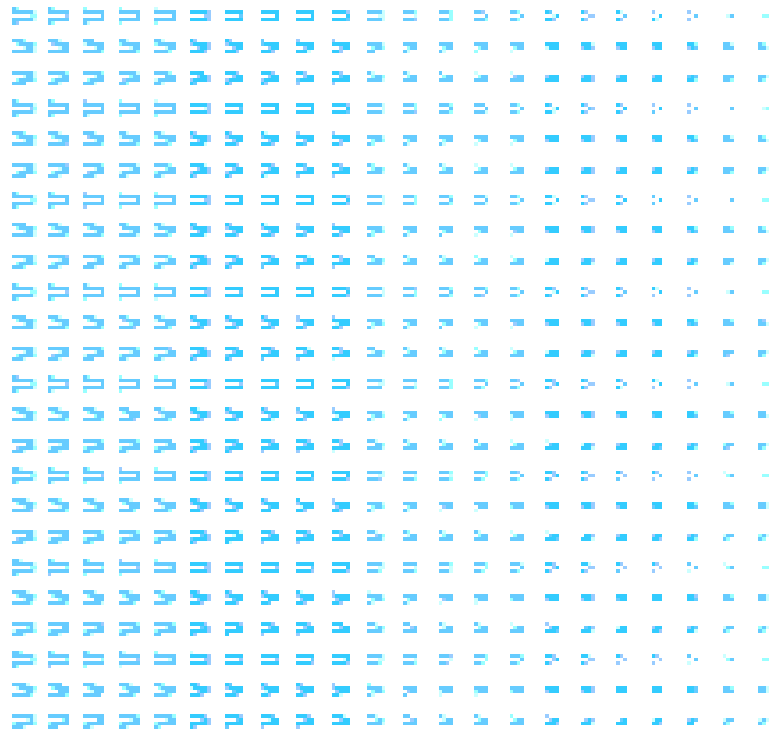
ITEM	REQUIREMENT
Cameras per server	350 cameras per server. This ensures a sub 2 second response time for all users when requests are made from all 350 cameras concurrently (i.e. within a 10 second window).
CPUs / Memory	Min. 3.6 GHz 16vCPU 32GB Memory. This will provide a sub 2 second response time for all users when requests are made from all 350 cameras concurrently (i.e. within a 10 second window).
Storage	Mirrored SSD - 480GB Strongly recommended that physical storage is encrypted.
Architecture	IntelAMD x64
Operating System	Ubuntu Minimal Install 24.04 LTS The install process will harden the server installing and configuring a firewall and OS updates.

Salto Systems.

Get in touch with our team.

Give us a brief summary of your needs, your next project and we'll get back to you.

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TECHNICAL SPECIFICATIONS -
DATASHEET-ORION

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