



UNIFIED VIDEO, ACCESS & SECURITY SYSTEMS



# INCEPTION

WEB POWERED, UNIFIED VIDEO,  
ACCESS CONTROL & SECURITY SYSTEMS

[INNERRANGE.COM](http://INNERRANGE.COM)

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# INCEPTION CONTROLLER

The Inner Range Inception controller is a powerful security system that brings together Intruder Detection, Access Control, and Automation in one easy-to-use web-based hardware solution.

With Inception, there is no need to install software on a computer, no need to leave a computer on-site, and no software/firmware compatibility issues. Simply power up the controller, connect the network cable, and use any web browser to navigate to Inception's web page. Here you will find everything you need to set up, commission, and operate the entire system.

Inception's inbuilt Commissioning Checklist guides technicians through the commissioning process. Technicians can commission a system with confidence, knowing that they have covered everything, from core programming to custom automation, changing default credentials, backing up the database and downloading a commissioning report, without missing a step.

End users can use any existing computer, tablet, or smartphone to control their Inception system via the fully featured user interface.

The Inception controller features 8 inputs and 4 relay outputs on-board. These inputs and outputs are truly universal. A mix of EOL (end of line) inputs and standard button/switch inputs can be used independently of each other, while the 4 relay outputs can be used to directly control door locks, powered siren modules or connect and control any device of your choice.

For example, using Inception's built-in RS-485 reader port, up to 8 SIFER card readers, 3rd party OSDP readers, or 8 Wiegand readers via Inner Range OSDP-Wiegand converters can be connected and used in conjunction with the 4 relay outputs to provide access control for four doors with read in and out control. The 8 inputs can then connect to PIRs or door position switches for both access control and security alarm purposes.

Inception allows for expansion via its on-board RS-485 LAN port. Keypads, access control modules, and input/output expanders can be added to increase Inception's scope up to 128 doors, 1024 inputs, and 1024 outputs.



## HARDWARE FEATURES

- Built-in web Interface
- 8 x Universal Zone Inputs - expandable up to 1024
- 4 x Auxiliary Relay Outputs - expandable up to 1024
- Manage up to 4 Doors with the Controller – expandable up to 128
- Manage up to 32 Lift Cars and 96 Lift Buttons
- Connect up to 8 SIFER or OSDP readers to the Controller - expandable up to 256
- Connect up to 256 Wiegand readers via SLAM's on the RS-485 LAN
- RJ45 - 10/100 Ethernet Port
- RS-485 Sub-LAN Port
- RS-485 Reader-LAN Port

# INTEGRATED INTRUDER AND ACCESS



## ACCESS CONTROL

### Door Held Open

Detect if doors have been held open for too long. Warn locally with buzzers first, but if nothing changes, then escalate with notifications and alarms.

### Dual Credential Access

Require both a card and a PIN for higher security locations or for after-hours access.

### Door Interlocking

Flexible configuration supports many scenarios, from simple airlocks through to safety environments, like limiting access if active machinery or hazardous substances are on the other side of the door.

### Live User Locations

Track user locations as they move through a building. Automatically run and email Muster reports in an emergency or view a live interface to ensure everyone gets to safety.

### Elevator Control

Grant user permissions to floors, schedule free access times and update user locations with button feedback.

### Anti-Passback

Prevent tailgating, sharing of access cards or ignoring access rules where accurate user location is important. Warn or deny on violations, and automatically forgive after time to minimize inconvenience.



## INTRUDER DETECTION

### Multiple Areas

Have granular control over the security of your site. Support multiple offices with one system or keep important areas secure during the day.

### Auto-Arming

On a schedule or after inactivity, ensure areas are secure when no one is there.

### Pre-Arm Health Check

Verify the health of the system and that all inputs are closed before arming for the night. See a list of problems to fix, such as doors or windows to close, to ensure the site is secure.

### Many Detector Types

Detect and notify about a wide range of events. Alert and warn about smoke, user duress, medical, emergency, environmental alarms and so on.

### Residential Mode

Enable residential area mode to secure a building in Full, Perimeter or Night modes.



## INTEGRATED SYSTEM

### Unlock on First Access

Unlock the front door automatically during working hours, but only if someone has arrived and disarmed the system.

### Door Alarm Monitoring

Alert if a door is forced (opened without being unlocked), or notify if a door has been held open too long.

### Three-badge Arming

Easily arm the system by presenting a card three times at a reader.



# SIMPLE PLUG AND PLAY TECHNOLOGY



**USB Port**  
For USB dialer, Serial adapter for automation or USB hub

**Ethernet Port**  
For network connection and IP alarm communications via SkyTunnel

**Tamper Input**  
Monitor Inception's outer enclosure to detect any attempts to tamper with the controller

**LED Indicators**  
Quickly see the status of Inception's system, connections and outputs

**4 Universal Relay Outputs**  
Outputs are truly universal. Control door locks, connect alarm sounders or switch automation controls and external devices

**SkyTunnel Web Interface**  
Scan the QR code or browse to the web address to access your Inception's web interface from any Internet connected device via the SkyTunnel service

**8 Universal Inputs**  
Monitor a mix of EOL devices, buttons, switches or doors

**Device Power**  
12VDC output for powering PIR's or other security devices

**RS-485 LAN Expansion Port**  
Add LAN expansion modules to Inception including keypads, input/output expanders, access control modules and wireless fobs and detectors

**Device Power**  
12VDC output for powering PIRs, or other security devices

**Backup Battery Connection**  
Connect a 12V battery for back-up power. Can also be used to power Inception from a separate external battery-backed 12~14VDC power supply

**Power Input**  
18V~24VDC 2.5A to suit Inception's inline power supply

**SIFER Reader RS-485 Port**  
Connect up to 8 SIFER or OSDP readers, or 8 Wiegand readers via OSDP <-> Wiegand converters, for In & Out access on all four doors

## SYSTEM CAPACITIES

\* The Inception controller has 4 relay outputs in total. These can be used as lock relays for doors or general purpose dry contact outputs.

\*\* Via 8 OSDP <-> Wiegand converters.

\*\*\* 256 Wiegand readers requires a combination of OSDP <-> Wiegand converters and 127 Standard LAN Access Modules.

	On-board Inception Controller	With LAN Expansion
Doors	4*	128
SIFER Readers	8	256
Wiegand Readers	8**	128/256***
Areas	96	96
Inputs	8	1024
Outputs	4*	1024
Lift Cars	32	32
Users	10,000	10,000
Events	250,000	250,000

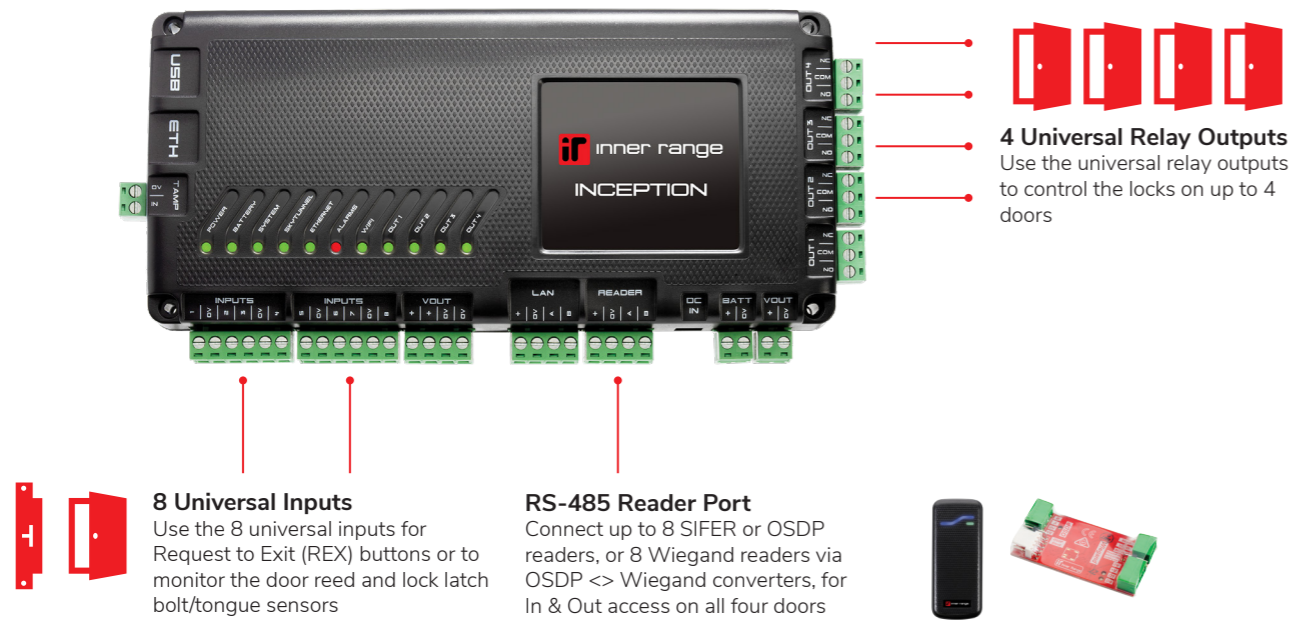
**SCAN ME FOR MORE INFORMATION**





# SIMPLE DEPLOYMENT EXAMPLES

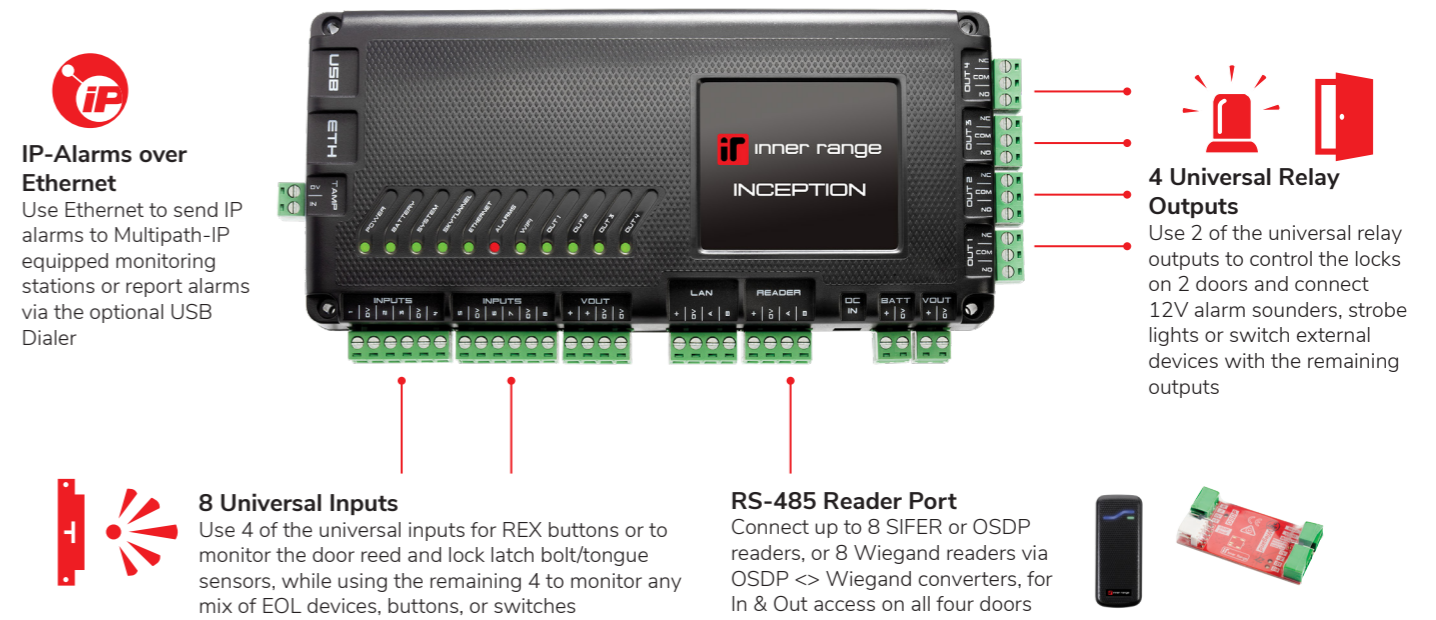
## FOUR DOOR ACCESS CONTROL SYSTEM



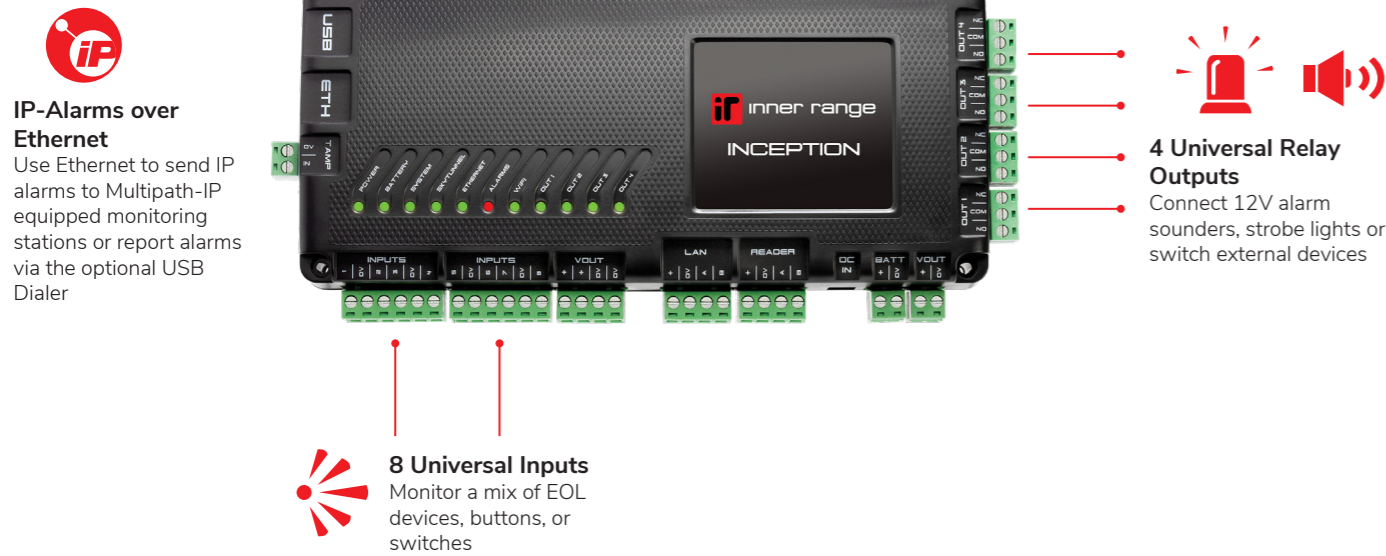
# ADVANCED DEPLOYMENT EXAMPLES

## INTEGRATED ACCESS CONTROL AND SECURITY SYSTEM

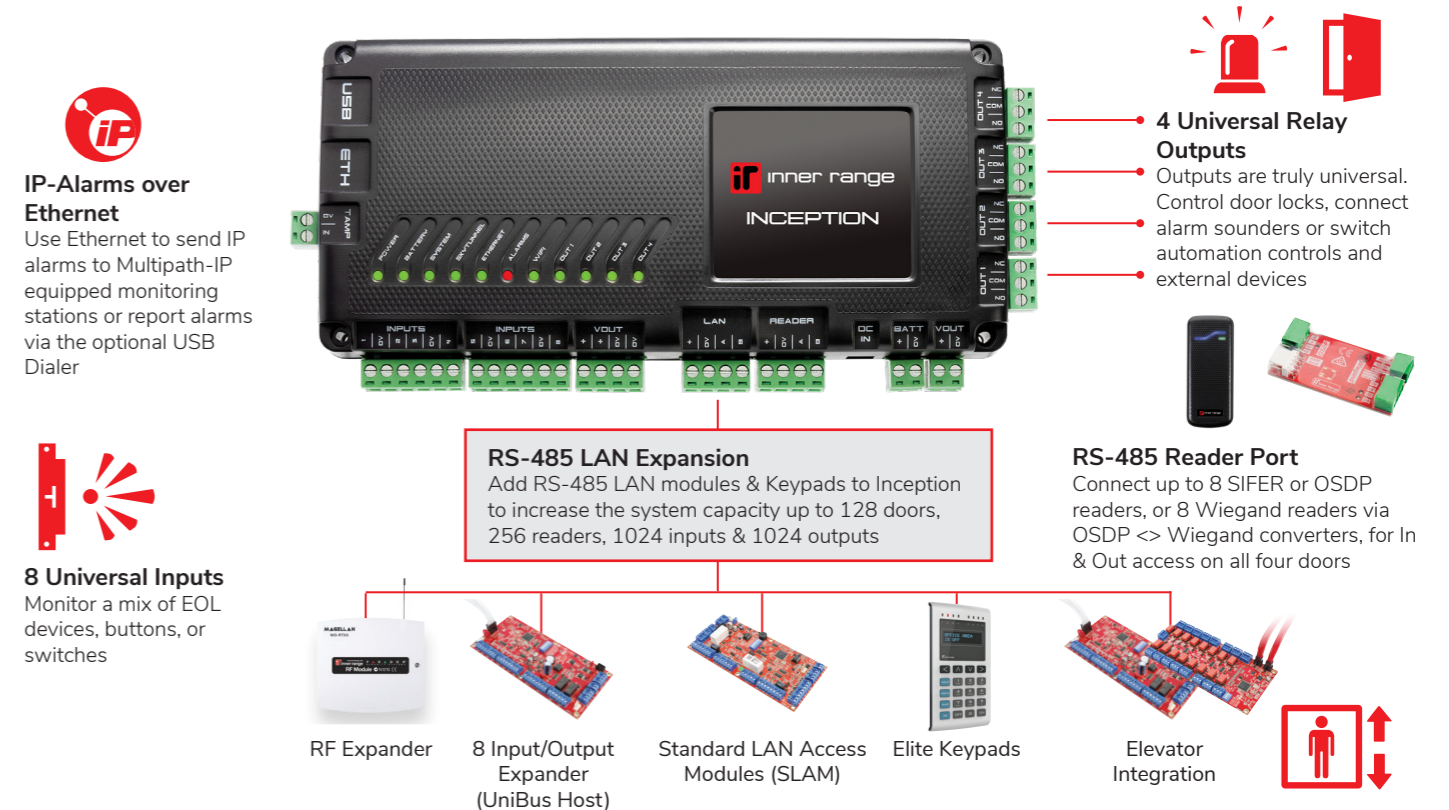
Example showing 2 access controlled doors with 4 inputs used for general intruder detection



## EIGHT ZONE SECURITY SYSTEM



## INCEPTION WITH LAN EXPANSION MODULES





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