

● INTRODUCING

Spark I-220

Fingerprint IP video outdoor unit.

An IP video intercom outdoor unit with fingerprint and IC card unlocking, a 110° camera with white-LED night light and full-duplex intercom — IP65 rated and powered by PoE or DC 12 V.



● Fingerprint unlock

● 500 fingerprints

● 1,000 IC cards

● 110° camera

● White LED night light

● Full-duplex intercom

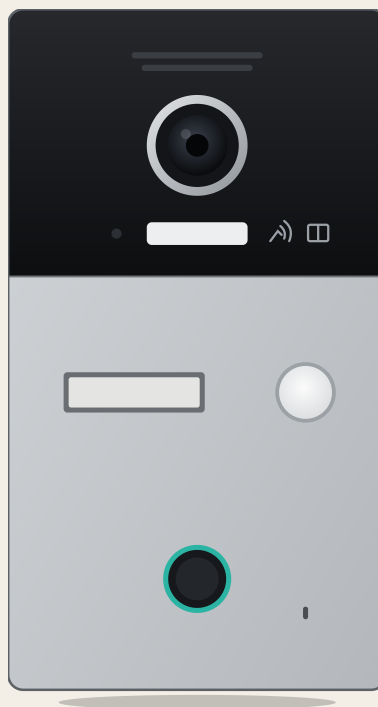
● PoE or DC 12 V

● IP65

● VISITOR EXPERIENCE

One press to call. Four ways to open.

Visitors press the call button to reach the indoor unit and talk in full-duplex. The door opens from the indoor screen, with a fingerprint, with an RFID card or with an exit button.

**Full-duplex intercom**

Press the call button and talk and listen at the same time.

**Indoor unit unlock**

Open the door from the indoor unit's screen.

**Fingerprint**

Place a registered finger on the reader. Up to 500 fingerprints.

**RFID card**

Present a 13.56 MHz IC card. Up to 1,000 cards.

**Exit button**

Connect an exit button to open the door from inside.

**Leave message**

A voice prompt plays when a call is not answered.

● OVERVIEW

Everything on one front panel.

Camera and flash light, card reader and indicator LEDs sit behind the upper panel. The name plate, call button, fingerprint reader and microphone sit below.



- 1 Camera
- 2 Camera flash light
- 3 Name plate
- 4 Speaker
- 5 Call indicator LED
- 6 Unlock indicator LED
- 7 Call button
- 8 Mic
- 9 RFID card reading zone
- 10 Status indicator LED
- 11 Fingerprint reading zone

● ACCESS CONTROL

500 fingerprints. 1,000 cards.

The I-220 stores up to 500 fingerprints and 1,000 IC cards (13.56 MHz). Cards and fingerprints are added and deleted from the indoor unit's System Settings, and each household's list is kept separate.

01 Managed from the indoor unit

Card Management and Fingerprint Management pages in the indoor unit's System Settings, opened with the project password.

02 Add mode

Enter the room number and choose Add Mode. Present a card, or place a finger twice to register it. Two beeps confirm each one.

03 Delete one or delete all

Pick a card or fingerprint from the list, use Delete Mode at the door, or clear a household's entries with Delete All.

04 Status indicator

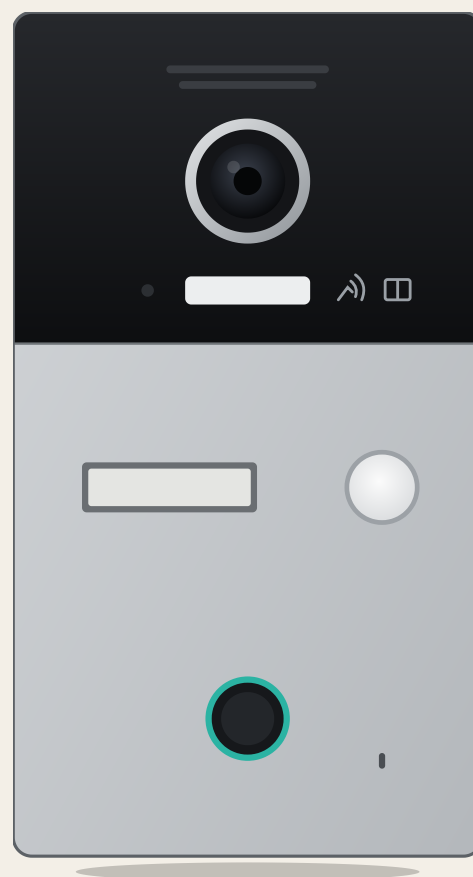
Blinks slowly in card mode and quickly in fingerprint mode. Steady on again back in normal mode.

05 Separate households

Adding or deleting on one indoor unit does not affect the cards and fingerprints of other households.

06 30-second timeout

Add and delete modes exit after 30 s without a card or finger, from the indoor unit, or by pressing the call button.



● SYSTEM

Up to four door units. Six IP cameras.

A two-position DIP switch on the back sets the door unit number, for up to four door units in one system. Up to six IP cameras can be added, and every apartment in the system can monitor them.

DIP SWITCH 1 / 2 — DOOR UNIT NUMBER

SETTING 00

Door unit No. 1



SETTING 01

Door unit No. 2



SETTING 10

Door unit No. 3



SETTING 11

Door unit No. 4



01 Monitor & snapshot

The indoor unit can monitor the door camera and take pictures.

02 Night mode

In low light, the supplementary light turns on automatically during a call, monitoring or talking.

03 Leave message

When a call is not answered, a voice prompt tone plays. Message time 45 s.

04 Ring settings

Ringtone time 30 / 60 / 90 s. Ringtone volume 1–15.

05 Factory reset

Hold the reset button on the back for 10 s. Registered cards and fingerprints are kept.

IP cameras are public cameras, visible from all apartments. Only one router can be connected to the whole system.

● SETUP

One network cable. Flush or surface.

The I-220 connects over CAT5 network cable to a PoE switch, which can also power it — or use an external DC 12 V supply. Mount it on the surface or flush in the wall.

01 Network: CAT5

RJ-45 network port, CAT5 cable. Connect through a PoE switch.

02 Power: PoE or DC 12 V

Powered by PoE, or an external DC 12 V supply. Max. 200 mA.

03 Lock output

LOCK+ / NC / COM / NO terminals. Wiring diagrams for electric locks, magnetic locks and power-up unlocking.

04 Exit button & door sensor

CTL / DET / GND terminals for an exit button and door magnetic detection.

05 Surface or flush mount

Both methods shown in the manual. Plastic anchors and screws included.

06 Install height 120–160 cm

Avoid backlight. Keep 30 cm from AC power and away from TVs, DVRs, water, magnetic fields and chemicals.

WHAT'S IN THE BOX

1 Outdoor station	4 Plastic anchors	8 Screws	1 7-pin line
1 4-pin line	1 2-pin line	2 IC cards	1 User manual

Power adapter optional.

● SPECIFICATIONS

Spark I-220

Fingerprint IP video outdoor unit · IC card · PoE

CAMERA & INTERCOM

Viewing angle	110°
Night light	White LED compensation
Intercom	Full-duplex
Ringtone time	30 / 60 / 90 s
Ringtone volume	1-15
Message time	45 s
Duration	120 s
Door units per system	Up to 4 (DIP switch)
IP cameras	Up to 6

ACCESS & POWER

Fingerprints	500
IC cards	1,000 · 13.56 MHz
Unlock	Indoor unit · fingerprint · card · button
Connection	CAT5 network cable
Power supply	DC 12 V or PoE
Power consumption	Max. 200 mA
Waterproof rating	IP65
Operating temp.	-40 °C to +50 °C
Installation	Surface / flush mount