

● INTRODUCING

Spark I-300

4.5" LCD IP video outdoor station.

The I-300 is an IP video intercom outdoor station with a 4.5-inch capacitive touchscreen, 150° wide-angle camera, white-LED night vision, PIR motion detection and IC/ID card access — powered over PoE or DC 12 V.



● 4.5" LCD touchscreen

● 150° wide-angle camera

● White LED night vision

● PIR motion detection

● IC & ID card RFID

● Wiegand unlock

● PoE or DC 12 V

● Villa & building modes

● VISITOR EXPERIENCE

Touch to call. A smarter front door.

Visitors tap the 4.5-inch capacitive touchscreen to call the indoor monitor and talk in full-duplex. Residents can also get in without calling — with an IC or ID card, or the public unlock password.



Full-duplex audio

Talk and listen at the same time.
Talk volume 1–10.



Card access

IC and ID cards open the door
without calling — up to 2,000
cards.



Password unlock

Six-digit public password entered
on the touchscreen.



10 ringtones

Ring volume 1–10 and ring time
0–150 s.



White LED night vision

White LEDs light visitors at the
door after dark.



Standby display

Black screen, clock or a digital
photo frame from the SD card.

● CAMERA

Sees everything. Day or night.

The I-300's wide-angle camera covers a 150° horizontal field of view across the entrance. White-LED night vision lights visitors after dark, a built-in PIR sensor detects motion, and photos are saved as JPG to an SD card.

**01 150° wide-angle camera**

150° horizontal viewing angle covers the entrance area.

02 White LED night vision

White LEDs light the entrance so visitors can be seen after dark.

03 PIR motion detection

Built-in passive infrared (PIR) sensor detects motion in front of the station.

04 H.264 video

Video is encoded in H.264.

05 SD card up to 256 GB

Photos are stored locally as JPG on an SD card of up to 256 GB.

06 Digital photo frame

In standby, show up to 8 custom 480 × 480 JPG images from the SD card, switching every 5–30 s — or a clock or black screen.

● CARDS & UNLOCK

Multiple ways in. One secure unit.

The I-300 reads 13.56 MHz Mifare IC cards and 125 kHz EM ID cards, with up to 2,000 cards. Unlock by card, by public password or through an external Wiegand reader — the relay drives electric or magnetic locks.

01 Dual RFID formats

Reads IC cards (13.56 MHz Mifare) and ID cards (125 kHz EM).

02 2,000-card capacity

Up to 2,000 cards. Add, delete and sync cards from the station settings.

03 Wiegand unlock

Connect an external Wiegand reader to the D0/D1 terminals for unlocking.

04 Relay lock output

NC / COM / NO relay. EL/ML dip switch selects electric or magnetic lock. Unlock delay 2 s by default, adjustable 1–10 s.

05 Password unlock

Six-digit public unlock password, kept separate from the admin and super-admin passwords.

06 Exit button input

Exit button input for opening the door from inside.



● SYSTEM MODES

From a single villa to a high-rise.

The I-300 runs in Villa, Building or High-rise mode. In high-rise mode, visitors find residents in an on-screen list of up to 999 users, shown by name, room number or both.



Villa

Villa mode, selected in the station settings.



Building

Building mode, selected in the station settings.



High-rise

Resident list of 1–999 users on the touchscreen.

01 Resident list layout

Single row (4 users per page) or double row (8 users per page). Display by name, room or both.

02 Guard station call

One-click call to the guard station from the admin screen — or dial 1000.

03 Ringtones & volume

10 ringtones. Ring volume and talk volume 1–10 (talk default 6). Ring time 0–150 s, default 30 s.

04 Network

DHCP or netcfg network modes. Door station numbering.

05 Languages

Multi-language interface, including English, Russian and Deutsch.

06 Maintenance

Device info, reboot and factory reset from the settings menu.

● SETUP

One cable. Flush or surface.

Connect with a CAT5/CAT5e Ethernet cable up to 100 m. With PoE, the station needs no separate power supply — or power it from DC 12 V. Mount it flush in the supplied embedded box, or on the surface.

01 Cable: CAT5 / CAT5e

CAT5 / CAT5e up to 100 m. Use a switch for runs over 100 m.

02 Lock wiring

Lock on the NC / COM / NO relay, plus exit button input. Set the EL/ML dip switch to match the lock.

03 Power: PoE or DC 12 V

PoE, or DC 12–15 V 2 A supply. Working current DC 12 V 250 mA.

04 Flush mount or surface mount

Flush mount in the included embedded box, or surface mount.

05 Install height

Mount at 120–160 cm from the floor. Installation diagram: 110° view, 50 cm from the station.

06 Placement

Avoid direct sunlight and strong light. Keep 30 cm from AC power, away from water and magnetic fields.

WHAT'S IN THE BOX

1 Outdoor station	1 Embedded box	4 Rubber stoppers	4 Screws KA4×32
2 Screws KM3 (stainless 304)	1 Screw wrench	2 IC cards	1 4-pin cable
2 3-pin cables	2 2-pin cables	1 User manual	

● SPECIFICATIONS

Spark I-300

4.5" LCD IP outdoor station · touchscreen · wide-angle camera · card access

DISPLAY & CAMERA

Screen	4.5" TFT LCD, capacitive touch
Resolution	480 × 272
Viewing angle	150° horizontal
Night vision	White LED
Motion detection	PIR
Video codec	H.264
SD card	Up to 256 GB · JPG photos
Intercom mode	Full-duplex
Operating system	Linux
Standby display	Black screen · clock · photo frame
Ringtones	10 · ring time 0-150 s

ACCESS & POWER

RFID	IC 13.56 MHz Mifare · ID 125 kHz EM
Card capacity	2,000
Wiegand	Wiegand reader unlock (D0/D1)
Relay output	NC / NO / COM
Power	PoE or DC 12-15 V 2 A
Working current	DC 12 V 250 mA
Standby power	<1 W
Working temp.	-20 °C to +55 °C
Installation	Flush mount · surface mount
Cable	CAT5 / CAT5e, up to 100 m