

Multifunctional AI powered SIP doorphone

NEXhome G510S is a SIP video doorphone with a 5" touch screen, which performs AI-powered offline facial recognition for door access. It is typically used in apartment buildings, high-rise office buildings and building complexes.



Highlights

- 5-inch SIP doorphone with Linux system
- High-resolution IPS touchscreen
- 2-mega pixels dual cameras with built-in HDR
- Precise face recognition and liveness detection
- IP65 dust and water Protection
- Smart fill-in light
- Body induction
- Complies with SIP standard for easy integration in every SIP capable PBXes

Physical & Power

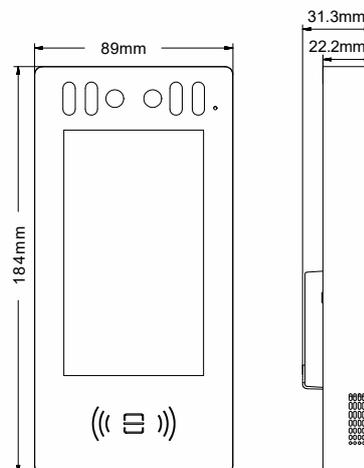
- Front panel: Plastics
- RAM / ROM: 1GB / 8GB
- Display: 5 Inch IPS LCD
- Screen: 5 Inch capacitive touch screen
- RGB Camera: 2M pixels
- IR Camera: 2M pixels
- White light LED: automatic lighting
- Infrared LED: automatic lighting
- Wiegand: Support
- RS485: Support
- RF card reader: 13.56MHz
- Relayout: 1
- Inputs: 2
- Microphone: -42dBV
- Speaker: Speaker, 8Ω/2W
- Bluetooth: Support
- Ethernet ports: 1xRJ45, 10M/100Mbps adaptive
- DC 12V/1A connector (if not using PoE)
- 802.3af Power-over-Ethernet
- IP Level: IP65
- Installation: Wall-mounted
- Wall-mounted DIM: 184×89×31.3mm
- Dimension: 184×89×22.2mm
- Working Humidity: <95%RH
- Working Temperature: -30°C ~ +70°C
- Storage Temperature: -40°C ~ +70°C

ISESAR IS-G510s



Video

- Sensor: 1/2.8", CMOS
- Pixels: CIF, QCIF, VGA, 4CIF, 720p, 1080p
- Video codec: H.264
- Video resolution: up to 1920×1080p
- Max. image transfer rate: 1080p - 30fps
- Viewing angle: 92°(FOV)
- High-intense IR LEDs for fill-in light in dark
- Built-in light sensor to detect environment illumination



Networking

NETWORKING

- Protocols: IPv4, HTTP, HTTPS, FTP, TFTP, SNMP, DNS, SNTP, RTSP, SRTP, RTP, TCP, UDP, TLS, ICMP, DHCP, ARP

Door Entry Feature

- Unlock methods: Face, Card/keyfob, PIN and BLE
- Support live detection to prevent malicious attack such as HD photo and retaken screen
- Support visual human activity detection and real-time video streams analysis, achieve senseless access
- Support HDR, highly improve the facial recognition rate under extreme conditions such as low, strong and back light
- Up to 20,000 facial image data, 98%+ recognition accuracy
- Minimum illumination: 0.1LUX

Deployment & Maintenance

- Auto-Provisioning
- Web management portal
- Web-based packet dump
- Configuration backup / restore
- Entry log export
- Credentials export/import
- Firmware upgrade
- System logs (include door access logs)

Audio

- SIP v2 (RFC3261)
- Audio Codec: G.771a, G.711u, G.729 (Narrowband)
G.722 (Broadband)
- DTMF: In-band, RFC2833, SIP Info
- Echo Cancellation

Scenarios

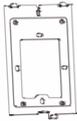
- Entrance of high-rise buildings
- VIP or C-level room
- High-end house or community
- Self-service kiosk

IS-G510s Series Quick Guide

1 | Preparation

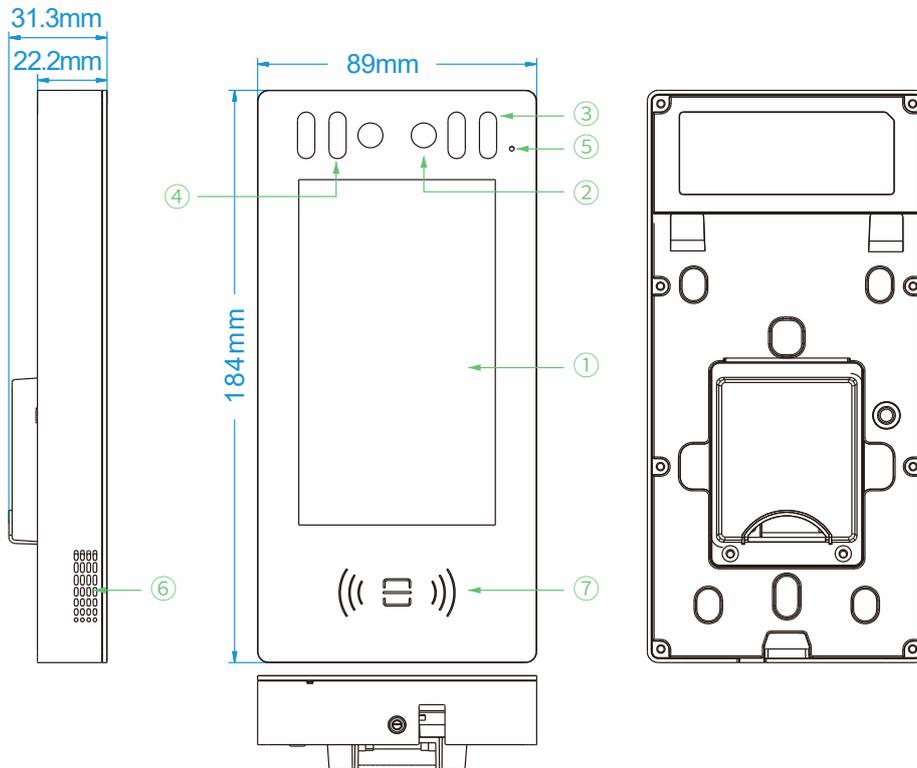
PREPARATION

Please make sure the package contains the following items.

<p>DH-G510S</p>  <p>×1</p>	<p>Wall bracket</p>  <p>×1</p>	<p>Back cover</p>  <p>×1</p>	<p>Hexagonal wrench</p>  <p>×1</p>	
<p>Screw(M3×6.7)</p>  <p>×1</p>	<p>Screw(M2.5×5)</p>  <p>×2</p>	<p>Screw(M4×30)</p>  <p>×2</p>	<p>Screw(ST4×20)</p>  <p>×4</p>	<p>Drywall anchor</p>  <p>×4</p>

2 | Product Overview

PRODUCT OVERVIEW



- | | | | |
|-------|-----------|-------------------|----------------|
| ① LCD | ② Camera | ③ White light LED | ④ Infrared LED |
| ⑤ MIC | ⑥ Speaker | ⑦ RF card reader | |

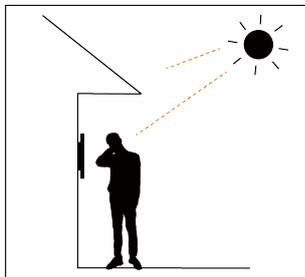
3 | Installation Environment

INSTALLATION ENVIRONMENT

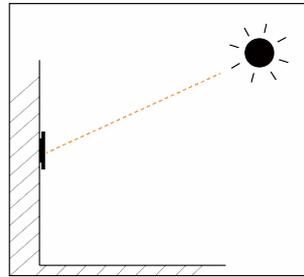
The device can be installed in both indoor and outdoor environment.

Outdoor installation: Avoid to exposing the device to direct sunlight, which will cause damage to device and components due to high temperature.

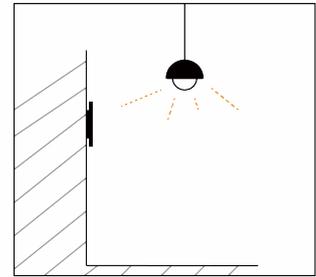
Indoor installation: The device should be installed on somewhere 2 meters (6 feet) away from light or 3 meters (9 feet) away from window/door.



✗ Backlight



✗ Direct sunlight



✗ Close to light

4 | Installation

INSTALLATION

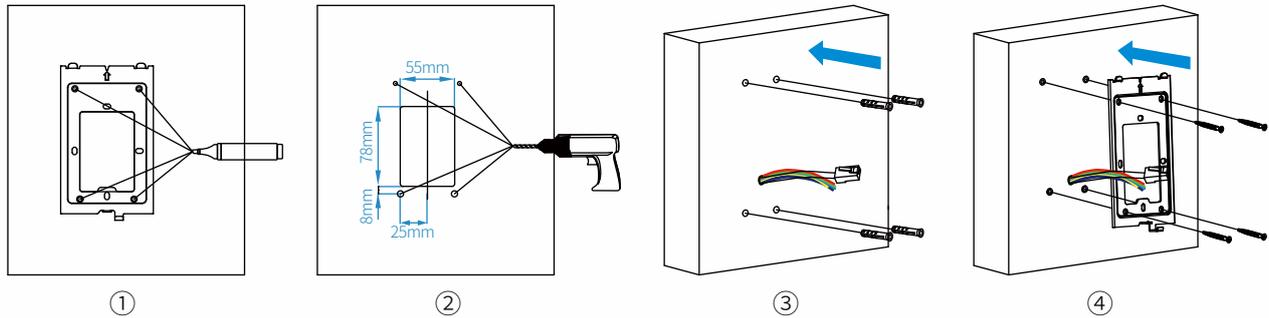
STEP 1

A. Without Type 118 Junction Box

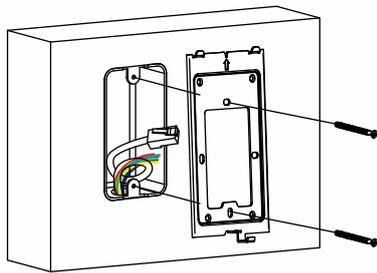
- ① Place the bracket against the wall and around the cable outlet area, then mark the position of drilling hole according to each hole of the bracket.
- ② Take the wall bracket off, make sure the marked drilling holes are in the right position around the cable outlet area (shown as diagram). Then drill holes with 6MM churn drill on each marked position.
- ③ Drive 4 drywall anchors into drilling positions.
- ④ Pull all cables and cords through the bracket, then lock the wall bracket by four ST4×20 screws.

★ NOTE: For installation on wooden walls, you can skip ② and ③.

IS-G510s Series Quick Guide

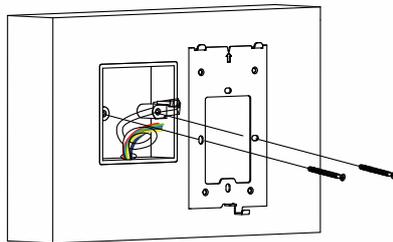


B. With Type 118 Junction Box (recommended)



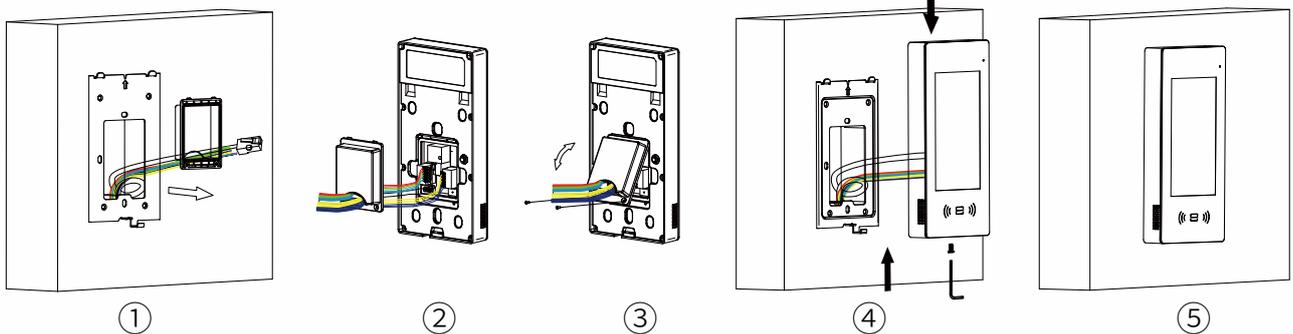
Pull all the cables through the junction box and wall bracket, then lock the wall bracket onto the junction box by two M4x30 screws.

C. With Type 86 Junction Box



Pull all the cables through the junction box and wall bracket, then lock the wall bracket onto the junction box by two M4x30 screws.

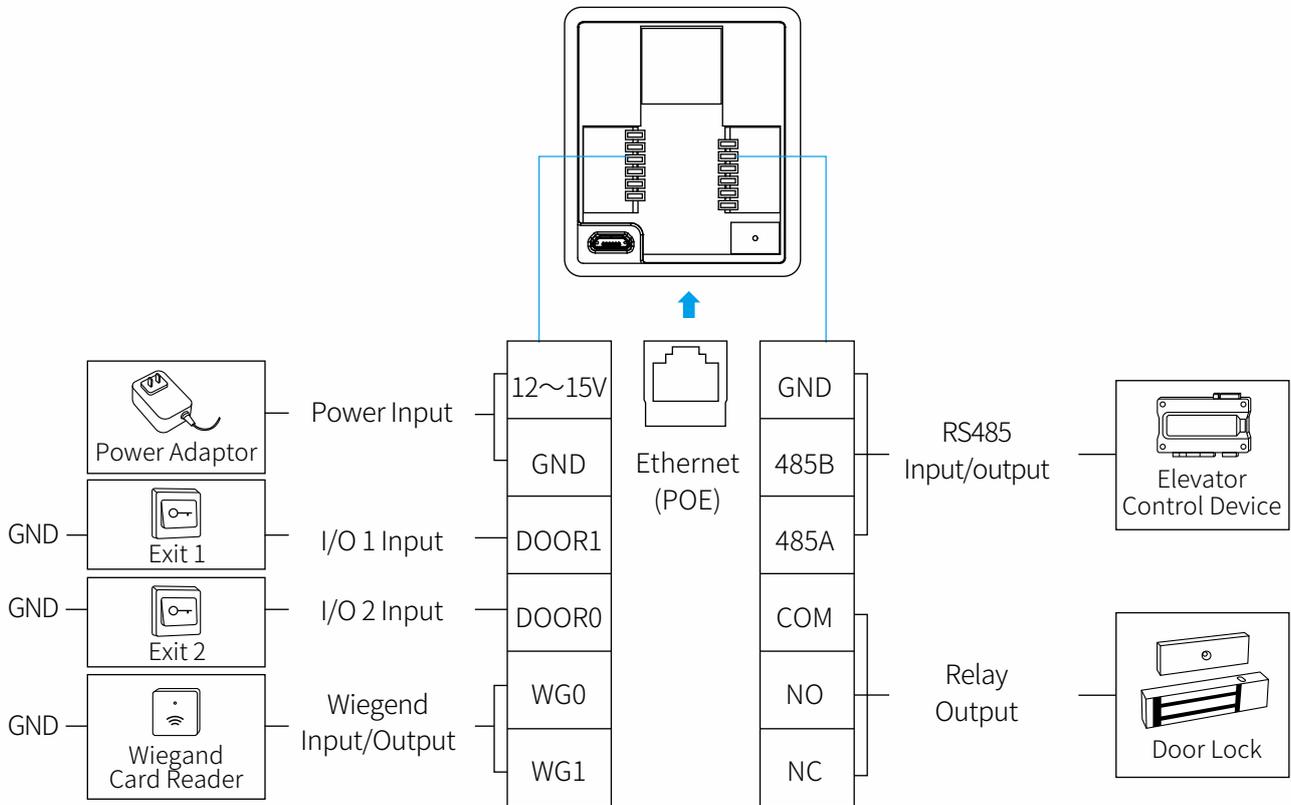
STEP2



- ① Pull all cables through the waterproof cover.
- ② Connect the cables to the corresponding interfaces of the device
- ③ Lock the waterproof cover onto device with four R3×6 screws.
- ④ Attach the device onto the bracket on the wall, press down to lock by hooks, then use hexagonal wrench to lock the device from bottom with two M3×6.7 screws.
- ⑤ Installation is completed.

5 Interfaces

INTERFACES



6 Configurations

CONFIGURATIONS

● Initial Setup

The system language and the network can be selected and configured when the initial booting of device.

● Check IP Address

The initial IP is 192.168.1.101, you can also enter 9999 in CALL menu then 3888 to get into the PROJECT SETTING, and tap NETWORK to check the IP address.

● Set SIP Account

Log into Web configuration portal of device, set up SIP accounts in INTERCOM-ACCOUNT page.

● Set DTMF Code

Select DTMF mode and configure the code in SYSTEM-RELAY page of Web configuration portal.

★ NOTE: You can refer to device user manual for more details.

7 | Functions

FUNCTIONS

● Make Calls

You can make calls from the device by select contacts or dial call number.

● Auto Answer

Incoming calls will be answered automatically by default.

● Face Unlock

Walk in front of camera,the device can recognize the face and unlock the door if the facial image is matched.

● PIN Unlock

Enter the access PIN set in device to unlock the door.

● Card/Key fob Unlock

Attach the saved access card or key fob on the card reader area of device to unlock the door.

● DTMF Unlock

Press the configured DTMF code on keypad of device answering the call, the lock connected on DH-G510S will be unlocked remotely.

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